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### 1.1 expat 2.2.5 3ubuntu0.2

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1.2 github.com/banzaicloud/logrus-runtime-formatter 0.0.0-20190729070250-5ae5475bae5e

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1.5 urllib3 1.22

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# Contributions to the urllib3 project

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## Contributors

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* 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/@WBRSRIpBhBFXQB6/>  
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* 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

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  * 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 Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://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>
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* 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 <http://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 <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffitocolmingov@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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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

* Jesse 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 <sethmicahellarson@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 vendoring

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

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1.6 logback-json-classic 0.1.5

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1.7 go-homedir 1.1.0

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1.8 golang-protobuf-extensions 1.0.1

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1.9 pip 21.0.1

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

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

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

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cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.10 python-service-identity 16.0.0-3.ph2
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1.12 python-colorama 0.3.7-1

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1.31 bcel 2.7.2

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 */

/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
public static String getVersion()
{
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
drop applied to a specific release and contains
fixes for defects reported. It maintains compatibility
with the release and contains no API changes.
When missing, it designates the final and complete
development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
a specific release. D01 is the first development drop
of a new release.
* Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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 */

/*
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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 * limitations under the License.
 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* \(<P/>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.\(<P/>\)
* @xsl.usage general
*/

public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + "\" + getImplementationLanguage() + "\" +
            getMajorVersionNum() + "." + getReleaseVersionNum() + "\" +
            ((getDevelopmentVersionNum() > 0) ?
                ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
```java
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 * implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/…
jar/org/apache/xml/serializer/output_html.properties
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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*@author Jacek Ambroziak
@author Santiago Pericas-Geertsen
@author Morten Jorgensen
@author G. Todd Miller
*/

class org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
 /**
  * Used by function calls with no args.
  */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}
public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "[uri]:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@*][namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

    public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
        int nodeType;

        if (test == null) {  // "*
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

            return new StepPattern(axis, nodeType, predicates);
        }

        else if (test instanceof Integer) {
            nodeType = ((Integer) test).intValue();

            return new StepPattern(axis, nodeType, predicates);
        }

        else {            QName name = (QName)test;
            boolean setPriority = false;

            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*") ? -1
                                : _xsltc.registerNamespacePrefix(name));
            } else {    final String uri = name.getNamespace();
                        final String local = name.getLocalPart();
                        final QName namespace_uri =
                                _parser.getQNameIgnoreDefaultNs("namespace-uri");
    }
// Expand {uri}::* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
        predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri)));
    } if (local.equals("*")) {
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : NodeTest.ELEMENT;
    } else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    } else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
            : _xsltc.registerElement(name);
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }

return ((Integer)test).intValue();
}
else {
QName name = (QName)test;

if (axis == Axis.NAMESPACE) {
    return (name.toString().equals("*")) ? -1 :
        _xsltc.registerNamespacePrefix(name);
}

if (name.getNamespace() == null) {
    final String local = name.getLocalPart();

    if (local.equals("*")) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : NodeTest.ELEMENT;
    }
    else if (local.equals("@*")) {
        return NodeTest.ATTRIBUTE;
    }
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
    : _xsltc.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * ...
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 * ...
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
}
return null;

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    } else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
        return rlp;
    }
}

/**
* Returns true if the axis applies to elements only. The axes * child, attribute, namespace, descendant result in non-empty * nodesets only if the context node is of type element. */
    public boolean isElementAxis(int axis) {
        return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
                axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
on terminal Expression Predicate, FilterExpr, Step;
on terminal Expression OrExpr, AndExpr, EqualityExpr;
on terminal Expression RelationalExpr, AdditiveExpr;
on terminal Expression MultiplicativeExpr, UnaryExpr;
on terminal Expression VariableReference, FunctionCall;
on terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
on terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
on terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
on terminal Pattern Pattern;
on terminal Pattern LocationPathPattern;
on terminal StepPattern ProcessingInstructionPattern;
on terminal RelativePathPattern RelativePathPattern;
on terminal StepPattern StepPattern;
on terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
   { : RESULT = pattern; : }
   
   | EXPRESSION Expr:expr
   { : RESULT = expr; : }; 

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
   { : RESULT = lpp; : }

   | LocationPathPattern:lpp VBAR Pattern:p
   { : RESULT = new AlternativePattern(lpp, p); : }; 

LocationPathPattern ::= SLASH 
   { : RESULT = new AbsolutePathPattern(null); : }

   | SLASH RelativePathPattern:rpp
   { : RESULT = new AbsolutePathPattern(rpp); : }

   | IdKeyPattern:ikp
   { : RESULT = ikp; : }

   | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
   { : RESULT = new ParentPattern(ikp, rpp); : }

   | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
   { : RESULT = new AncestorPattern(ikp, rpp); : }

   | DSLASH RelativePathPattern:rpp
\{ : \text{RESULT} = \text{new}\ \text{AncestorPattern}(\text{rpp}); : \}\\

| \text{RelativePathPattern:}\text{rpp} \\
| : \text{RESULT} = \text{rpp}; : \} ;\\

\text{IdKeyPattern} :: = \text{ID LPAREN}\ \text{Literal:}\text{l}\ \text{RPAREN} \\
| : \text{RESULT} = \text{new}\ \text{IdPattern}(\text{l}); \\
| \text{parser.setHasIdCall(true)}; \\
| : \\

| \text{KEY LPAREN}\ \text{Literal:}\text{l1}\ \text{COMMA}\ \text{Literal:}\text{l2}\ \text{RPAREN} \\
| : \text{RESULT} = \text{new}\ \text{KeyPattern}(\text{l1, l2}); : \} ;\\

\text{ProcessingInstructionPattern} :: = \text{PIPARAM LPAREN}\ \text{Literal:}\text{l}\ \text{RPAREN} \\
| : \text{RESULT} = \text{new}\ \text{ProcessingInstructionPattern}(\text{l}); : \} ;\\

\text{RelativePathPattern} :: = \text{StepPattern:}\text{sp} \\
| : \text{RESULT} = \text{sp}; : \} \\

| \text{StepPattern:}\text{sp}\ \text{SLASH}\ \text{RelativePathPattern:}\text{rpp} \\
| : \text{RESULT} = \text{new}\ \text{ParentPattern}(\text{sp, rpp}); : \} \\

| \text{StepPattern:}\text{sp}\ \text{DSLASH}\ \text{RelativePathPattern:}\text{rpp} \\
| : \text{RESULT} = \text{new}\ \text{AncestorPattern}(\text{sp, rpp}); : \} ;\\

\text{StepPattern} :: = \text{NodeTestPattern:}\text{nt} \\
| : \\
\text{RESULT} = \text{parser.createStepPattern}(\text{Axis.CHILD, nt, null}); \\
| : \\

| \text{NodeTestPattern:}\text{nt}\ \text{Predicates:}\text{pp} \\
| : \\
\text{RESULT} = \text{parser.createStepPattern}(\text{Axis.CHILD, nt, pp}); \\
| : \\

| \text{ProcessingInstructionPattern:}\text{pip} \\
| : \text{RESULT} = \text{pip}; : \} \\

| \text{ProcessingInstructionPattern:}\text{pip}\ \text{Predicates:}\text{pp} \\
| : \text{RESULT} = (\text{ProcessingInstructionPattern:}\text{pip}.\text{setPredicates}(\text{pp}); : \} \\

| \text{ChildOrAttributeAxisSpecifier:}\text{axis}\ \text{NodeTestPattern:}\text{nt} \\
| : \\
\text{RESULT} = \text{parser.createStepPattern}(\text{axis.intValue(), nt, null}); \\
| : \\

| \text{ChildOrAttributeAxisSpecifier:}\text{axis} \\
| \text{NodeTestPattern:}\text{nt}\ \text{Predicates:}\text{pp}
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
| : RESULT = pip; // TODO: report error if axis is attribute
| :

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
| :
| // TODO: report error if axis is attribute
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
| :;

NodeTestPattern ::= NameTestPattern:nt
| : RESULT = nt; :

| NODE
| : RESULT = new Integer(NodeTest.ANODE); :

| TEXT
| : RESULT = new Integer(NodeTest.TEXT); :

| COMMENT
| : RESULT = new Integer(NodeTest.COMMENT); :

| PI
| : RESULT = new Integer(NodeTest.PI); :

NameTestPattern ::= STAR
| : RESULT = null; :

| QName:qn
| : RESULT = qn; :

ChildOrAttributeAxisSpecifier ::= ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :

| CHILD DCOLON
| : RESULT = new Integer(Axis.CHILD); :

| ATTRIBUTE DCOLON
| : RESULT = new Integer(Axis.ATTRIBUTE); :];

Predicates ::= Predicate:p
| :
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;

Predicate:p Predicates:pp
{: pp.addElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

/* --------------------------- Expressions --------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}
| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}
| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}
| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}
| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}
| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}
| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
<table>
<thead>
<tr>
<th>RelationalExpr:re LE AdditiveExpr:ae</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new RelationalExpr(Operators.LE, re, ae);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RelationalExpr:re GE AdditiveExpr:ae</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new RelationalExpr(Operators.GE, re, ae);</td>
</tr>
</tbody>
</table>

AdditiveExpr ::= MultiplicativeExpr\:me |
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<tbody>
<tr>
<td>{} \ RESULT = me;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AdditiveExpr:ae PLUS MultiplicativeExpr:me</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AdditiveExpr:ae MINUS MultiplicativeExpr:me</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me);</td>
</tr>
</tbody>
</table>

MultiplicativeExpr ::= UnaryExpr\:ue |
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = ue;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MultiplicativeExpr:me MULT UnaryExpr:ue</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MultiplicativeExpr:me DIV UnaryExpr:ue</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue);</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MultiplicativeExpr:me MOD UnaryExpr:ue</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue);</td>
</tr>
</tbody>
</table>

UnaryExpr ::= UnionExpr\:ue |
<table>
<thead>
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<th></th>
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<tbody>
<tr>
<td>{} \ RESULT = ue;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MINUS UnaryExpr:ue</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new UnaryOpExpr(ue);</td>
</tr>
</tbody>
</table>

UnionExpr ::= PathExpr\:pe |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = pe;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PathExpr:pe VBAR UnionExpr:rest</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new UnionPathExpr(pe, rest);</td>
</tr>
</tbody>
</table>

PathExpr ::= LocationPath\:lp |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>{} \ RESULT = lp;</td>
</tr>
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<table>
<thead>
<tr>
<th>FilterExpr:fexp</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = fexp;</td>
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</table>

<table>
<thead>
<tr>
<th>FilterExpr:fexp SLASH RelativeLocationPath:rlp</th>
</tr>
</thead>
<tbody>
<tr>
<td>{} \ RESULT = new FilterParentPath(fexp, rlp);</td>
</tr>
</tbody>
</table>
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
}

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}
| AbsoluteLocationPath:alp
{: RESULT = alp; :};
RelativeLocationPath ::= Step:step
{: RESULT = step; :}
| RelativeLocationPath:rlp SLASH Step:step
{: RESULT = rlp SLASH step; :}
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step; // Remove '.' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp; // Remove '/.' from the end
}
else {
    RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
}
| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};
AbsoluteLocationPath ::= SLASH
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step

final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
  // Compress '/child:E' into 'descendant::E' - if possible
  if (predicates == null) {
    right.setAxis(Axis.DESCENDANT);
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
      RESULT = right;
    }
  }
  else {
    // Expand 'rlp/child::E' into 'rlp/descendant::E'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
  }
}
else {
  // Expand '/step' -> 'descendant-or-self::*/step'
  if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
    Step left = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    RESULT = new ParentLocationPath(left, right);
  }
  else {
    // Expand 'rlp/step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step mid = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(mid, right);
    RESULT = new ParentLocationPath(left, ppl);
  }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp/step' -> 'rlp/descendant-or-self::*/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
);

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {
        //
        // Expand '// into '/descendant-or-self::node/*' or
        // into /descendant-or-self::*
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step)rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath)rlp));
    };

Step ::= NodeTest:ntest
    {
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
        }
    };

| NodeTest:ntest Predicates:pp
    {
        if (ntest instanceof Step) {

Step step = (Step)ntest;
step.addPredicates(pp);
RESULT = (Step)ntest;
}
else {
    RESULT = new Step(Axis.CHILD,
                        parser.findNodeType(Axis.CHILD, ntest), pp);
}
:

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{| RESULT = new Step(axis.intValue(),
                     parser.findNodeType(axis.intValue(), ntest), pp);
}|}

| AbbreviatedStep:abbrev
{| RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{| RESULT = an; :}

| ATSIGN
{| RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
{| RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
{| RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
{| RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
{| RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
{| RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
{| RESULT = new Integer(Axis.DESCENDANTORSELF); :}
FOLLOWING
{"RESULT = new Integer(Axis.FOLLOWING); :\}

FOLLOWINGSIBLING
{"RESULT = new Integer(Axis.FOLLOWINGSIBLING); :\}

NAMESPACE
{"RESULT = new Integer(Axis.NAMESPACE); :\}

PARENT
{"RESULT = new Integer(Axis.PARENT); :\}

PRECEDING
{"RESULT = new Integer(Axis.PRECEDING); :\}

PRECEDINGSIBLING
{"RESULT = new Integer(Axis.PRECEDINGSIBLING); :\}

SELF
{"RESULT = new Integer(Axis.SELF); :\};

AbbreviatedStep ::= DOT
{"RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :\}

DDOT
{"RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :\};

FilterExpr ::= PrimaryExpr:primary
{"RESULT = primary; :\}

| PrimaryExpr:primary Predicates:pp
{"RESULT = new FilterExpr(primary, pp); :\};

PrimaryExpr ::= VariableReference:vr
{"RESULT = vr; :\}

| LPAREN Expr:ex RPAREN
{"RESULT = ex; :\}

| Literal:string
{":
 /*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string) :
    new LiteralExpr(string, namespace);

| INT: num |
| long value = num.longValue(); |
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}

| REAL: num |
| : RESULT = new RealExpr(num.doubleValue()); : |

| FunctionCall: fc |
| : RESULT = fc; : |

VariableReference ::= DOLLAR VariableName: varName |
| : // An empty qname prefix for a variable or parameter reference |
| // should map to the null namespace and not the default URI. |
| SyntaxTreeNode node = parser.lookupName(varName); |

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
}
else {
    RESULT = new UnresolvedRef(varName);
    }

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
:};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:
        if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
            RESULT = new CurrentCall(fname);
        }
        else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
            RESULT = new NumberCall(fname, parser.EmptyArgs);
        }
        else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
            RESULT = new StringCall(fname, parser.EmptyArgs);
        }
        else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
            RESULT = new ConcatCall(fname, parser.EmptyArgs);
        }
        else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
            RESULT = new BooleanExpr(true);
        }
        else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
            RESULT = new BooleanExpr(false);
        }
        else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
            RESULT = new NameCall(fname);
        }
        else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
            RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
        }
        else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
            RESULT = new StringLengthCall(fname, parser.EmptyArgs);
        }
        else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
            RESULT = new PositionCall(fname);
        }
        else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
            RESULT = new LastCall(fname);
        }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
            RESULT = new LocalNameCall(fname);
        }
    }:
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
}

FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
        parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
        parser.setHasIdCall(true);
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName( Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

    // Special case for extension function nodeset()
    else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
        parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
    }
    
    else {
        RESULT = new FunctionCall(fname, argl);
    }
    
};

NonemptyArgumentList ::= Argument:arg
Vector temp = new Vector();
temp.addElement(arg);
RESULT = temp;
}

| Argument:arg COMMA NonemptyArgumentList:argl |
|{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: RESULT = fname; :};

VariableName ::= QName:vname
{: RESULT = vname; :};

Argument ::= Expr:ex
{: RESULT = ex; :};

NodeTest ::= NameTest:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
{: QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
new NameCall(name),
new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{: RESULT = new Integer(NodeTest.PI); :};
NameTest ::= STAR
   [: RESULT = null; :]

   | QName:qn
     [: RESULT = qn; :];

QName ::= QNAME:qname
   [: RESULT = parser.getQNameIgnoreDefaultNs(qname); :]

| DIV
   [: RESULT = parser.getQNameIgnoreDefaultNs("div"); :]

| MOD
   [: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :]

| KEY
   [: RESULT = parser.getQNameIgnoreDefaultNs("key"); :]

| ANCESTOR
   [: RESULT = parser.getQNameIgnoreDefaultNs("child"); :]

| ANCESTORORSELF
   [: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :]

| ATTRIBUTE
   [: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :]

| CHILD
   [: RESULT = parser.getQNameIgnoreDefaultNs("child"); :]

| DESCENDANT
   [: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :]

| DESCENDANTORSELF
   [: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :]

| FOLLOWING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following"); :]

| FOLLOWINGSIBLING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :]

| NAMESPACE
   [: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :]

| PARENT
   [: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :]
| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDING-SIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/xpath.cup

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 */

// is found, then throw a special exception in order to terminate

Found in path(s):
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/

/*
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/functions/FuncDoclocation.java
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*/

/* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%
%cup
%unicode
%class XPathLexer
%yyeof

{
  int last;

  void initialize() {
    last = -1;
  }

  static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
  }

  /**
   * If symbol is not followed by `::` or `(`, then treat it as a
   * name instead of an axis or function (Jira-1912).
   */
  Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
      index++;
    }

    // Check for symbol
    if (ss == Symbol.NAME) { ... }
// If end of buffer, can't disambiguate :
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is '::' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
    yy_buffer[index] == '(') ?
    newSymbol(ss) : newSymbol(sym.QNAME, yytext());

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSAtIndex:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
return newSymbol(ss);
}
/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}
Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}
Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}
%eofval{
    return newSymbol(sym.EOF);
%eofval}
%yylexthrow{
    Exception
}

Letter={BaseChar}|{Ideographic} BaseChar=[u0041-u005A|u0061-u007A|u00C0-u00D6|u00D8-u00F6|u00F8-u00FF|u0100-u0134-
    u013E|u0141-u0148|u01A4-u017E|u0180-u01C3|u01CD-u01F0|u01F4-u01F5|u01FA-u0217|u0250-
    u02A8|u02BB|u02C1|u0386|u0388|u038A|u038C|u038E|u03A1|u03A3|u03CE|u03D0-
    u03D6|u03DA|u03DC|u03E0|u03E2|u03F3|u0401|u040C|u040E|u044F|u045A|u045C-
    u0481|u0490|u04C4|u04C7|u04C8|u04CC|u04D0|u04EB|u04EE|u04F5|u04F8|u04F9|u0531-
    u0556|u0559|u0561|u0586|u05D0|u05EA|u05F0|u05F2|u0621|u063A|u0641|u0667|u0671|u06B7|u06BA-
    u06EB|u06E0|u06E6|u06D3|u06D5|u06E5|u06E6|u0905|u0939|u093D|u0958|u0961|u0985-
    u098C|u098F|u0990|u0993|u09A8|u09AA|u09B0|u09B2|u09B6|u09B9|u09DC|u09DF-
    u09E1|u09F0|u09F1|u0A05|u0A0A|u0A0F|u0A10|u0A13|u0A28|u0A2A|u0A30|u0A32|u0A33|u0A35-
    u0A36|u0A38|u0A39|u0A59|u0A5C|u0A5E|u0A72|u0A74|u0A85|u0A8B|u0A8D|u0A8F|u0A91|u0A93-
    u0AA|u0AB0|u0AB2|u0AB3|u0AB5|u0AB9|u0ABD|u0AE0|u0AE5|u0AF0|u0AE|u0B0|u0B13-
    u0B28|u0B2A|u0B30|u0B32|u0B33|u0B36|u0B39|u0B3D|u0B5C|u0B5F|u0B61|u0B85-
    u0B8A|u0B8E|u0B90|u0B92|u0B95|u0B99|u0B9A|u0B9C|u0B9E|u0B9F|u0BA3|u0BA4|u0BA8-
    u0BAA|u0BAE|u0BB5|u0BB7|u0BB9|u0C05|u0C0C|u0CE|u0C10|u0C12|u0C28|u0CA2|u0C33-
    u0C35|u0C39|u0C60|u0C61|u0C85|u0C8C|u0C90|u0C92|u0CA8|u0CAA|u0CB3|u0CB5-
    u0CB9|u0CDE|u0CE|u0CE1|u0D05|u0DDC|u0D0E|u0D10|u0D12|u0D28|u0D2A|u0D39|u0D60-
    u0D61|u0E01|u0E2E|u0E3|u0E32|u0E33|u0E40|u0E45|u0E81|u0E82|u0E84|u0E87-
    u0E88|u0E8A|u0E8D|u0E94|u0E97|u0E99|u0E9F|u0EA1|u0EA3|u0EA5|u0EA7|u0EEA|u0EAB|u0EAD-
    u0EAE|u0EB0|u0EB2|u0EB3|u0EBD|u0EC0|u0EC4|u0F40|u0F47|u0F49|u0F69|u10A0|u10C5|u10D0-
    u10F6|u1000|u1102|u1103|u1105|u1107|u1109|u110B|u110C|u110E-
    u1112|u113C|u114E|u1140|u1144|u1150|u1154|u1155|u1159|u115F-
    u1161|u1163|u116S|u1169|u116D|u116E|u1172|u1173|u1175|u119E|u11A8|u11AB|u11AE-
    u11AF|u11B7|u11B8|u11B9|u11C2|u11EB|u11F0|u11F9|u1E00|u1E9B|u1EA0|u1EF9|u1F00-
    u1F15|u1F18|u1F1D|u1F20|u1F45|u1F48|u1F4D|u1F50|u1F57|u1F59|u1F5B|u1F5D|u1F5F|u1F7D|u1F80-
    u1F84|u1F86|u1FB|u1FC4|u1FC6|u1FCC|u1FD0|u1FD3|u1FD6|u1FDB|u1FE0-
    u1FEC|u1FF2|u1FF4|u1FF6|u1FFC|u2126|u212A|u212B|u212E|u2180|u2182|u3041|u3094|u30A1-
    u30FA|u3105|u312C|u3AC0|u3D7A3]
Ideographic=[u4E00-u9FA5|u3007|u3021|u3029]

CombiningChar=[u0300-u0345|u0360|u0361|u0483|u0486|u0591|u05A1|u05A3|u05B9|u05BB-
Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|(NCNameStartChar)*)((NCNameChar)*

NCNameChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F\u0381\u0383-\u0388\u038A-\u038F\u0390-\u0395\u0397-\u039D\u039F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2D08\u2D70-\u2D7F\u2D80-\u2D88\u2D8A-\u2D8F\u2D91-\u2D96\u2DA0-\u2DA6\u2DA8-\u2DAB\u2DC0-\u2DF0\u2DFF]

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%%  

"*"  { return disambiguateStar(); }  

"/"  { return newSymbol(sym.SLASH); }  

"+"  { return newSymbol(sym.PLUS); }  

"-"  { return newSymbol(sym.MINUS); }  

"div"  { return disambiguateOperator(sym.DIV); }  

"mod"  { return disambiguateOperator(sym.MOD); }  

"::"  { return newSymbol(sym.DCOLON); }  

","  { return newSymbol(sym.COMMA); }  

"@"  { return newSymbol(sym.ATSIGN); }  

"[.."  { return newSymbol(sym.DDOT); }  

"]"  { return newSymbol(sym.VBAR); }  

"$"  { return newSymbol(sym.DOLLAR); }  

"//"  { return newSymbol(sym.DSLSlash); }  

"=="  { return newSymbol(sym.EQ); }  

"!="  { return newSymbol(sym.NE); }
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 * *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

}
/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of

a specific release. D01 is the first development drop
of a new release.

Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as
the final releases.

```java
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r<</B> 
 * v.r[.dd] <B>D</B><B>/</B>nn"</CODE>
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT+"."+LANGUAGE+"."+VERSION+"."+MAINTENANCE;

```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/processor/XSLProcessorVersion.src
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html

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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
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1.32 cast 1.4.1
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1.34 ufw 0.36-0ubuntu0.18.04.2
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1.38 github.com/spiffe/go-spiffe 0.0.0-20190922191205-018e7197ed1c

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1.39 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.40 go-stdlib 1.0.0

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1.41 six 1.11.0-2

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1.42 signal-exit 3.0.6

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1.43 wifi 0.0.0-20190303161829-b1436901ddee

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1.44 geo-ip 1.6.12-1

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1.60 libcacard 2.5.0-3

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1.62 zlib 1.2.3

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1.74 inf 0.9.1

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1.75 python-dateutil 2.6.1

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dateutil - Extensions to the standard Python datetime module.

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1.77 go.uber.org/atoi 1.5.0

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1.78 kubernetes 1.23.0

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package types
import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
DEV = FeatureType("DEV")

// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID        string               `json:"arrayUUID,omitempty"
    ClusterID        string               `json:"clusterID,omitempty"
    CustomerID       string               `json:"customerID"
    CustomerName     string               `json:"customerName"
    Storage          int                  `json:"storage"
    ValidUntil       time.Time            `json:"validUntil"
    LicenceType      string               `json:"licenceType"
    Features         map[FeatureType]bool `json:"features"
    Unregistered     bool                 `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

---

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// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := "" + n.Plugin
    if n.Option != "" {
        s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
    } else {
        s += fmt.Sprintf(`Plugin "%v"`, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == SevNewDefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(`It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated  = "deprecated" // deprecated, but still completely functional
    SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
    in the Corefile
    SevNewDefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not
present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name.omitempty"
}
URL string "json:"url,omitempty""

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package storageos

import
"encoding/json"
"github.com/storageos/go-api/types"

const
// licenceAPIPrefix is a partial path to the HTTP endpoint.
licenceAPIPrefix = "licencing"

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
_, err := c.do("POST", licenceAPIPrefix, doOptions{
data: &types.LicenceKeyContainer{Key: licenceKey},
})
return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
if err != nil {
return err
}
return resp.Body.Close()
}

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tomb - support for clean goroutine termination in Go.

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package simulator

import ( "github.com/vmware/govmomi/object"
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{

Res: &types.AddLicenseResponse{ },

for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
        body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        return body
    }
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: new(types.UpdateLicenseLabelResponse)
    }
    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
    }
    body.Res = new(types.UpdateLicenseLabelResponse)
    for j := range license.Labels {
        label := &license.Labels[j]
if label.Key == req.LabelKey {
    if req.LabelValue == "" {
        license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
    } else {
        label.Value = req.LabelValue
    }
    return body
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})
return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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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
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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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For more information see the README file in the examples directory.

Directory native/fdlibm

fdlimb contains general algorithms useful for runtimes and compilers to support strict double and float mathematical operations.

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* m4/ax_func_which_gethostbyname_r.m4

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Version 3.1, 31 March 2009

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<td>lib/interception/mach_override</td>
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</tr>
<tr>
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<td></td>
</tr>
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</tr>
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</tr>
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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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1.98 dash 0.5.8 2.10

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

Title:shhopt - library for parsing command line options.
Version:1.1.2
Entered-date:23MAR97
Description:C-functions for parsing command line options, both
  traditional one-character options, and GNU'ish
  --long-options.
Keywords:programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site:http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site:sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms:Requires ANSI C-compiler.
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------------------------------------------------------------------------------
1.102 golang-genproto 0.0.0-20191115194625-c23dd37a84c9

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

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

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

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

* java.sun.security.ssl

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

OW2

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

Apache

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.110 x-time-rate 0.0.0-20191024005414-555d28b269f0

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1.111 go-runewidth 0.0.12

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1.112 jpillar-backoff 0.0.0-20180909062703-3050d21c67d7

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1.113 libapt-inst 1.6.14

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1.114 python-decorator 4.1.2-1

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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) 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.

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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>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, 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!

1.121 aws-sdk-go 1.27.0
1.121.1 Available under license:
   // Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
        addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string
}

type DeleteLicenseOutput struct {
  // Date on which the license is deleted.
  DeletionDate *string
  // License status.
  Status types.LicenseDeletionStatus
  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
  }
  return err
}
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32
// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }

  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }

  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }

  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }

  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }

  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }

  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }

  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }

  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }

  return nil
}
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    // // This member is required.
    // Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    // ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    // // This member is required.
    // ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    // // This member is required.
    // Entitlements []types.Entitlement

    // Home Region for the license.
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}
type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsjson11_serializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsjson11_deserializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
  return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:        region,
    ServiceID:     ServiceID,
    SigningName:   "license-manager",
    OperationName: "CreateLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
  if params == nil {
    params = &CheckoutLicenseInput{}
  }
  result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
  if err != nil {
    return nil, err
  }
  // Code generated by smithy-go-codegen DO NOT EDIT.
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// CheckoutLicenseInput
// Checkout type.
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// License entitlements.
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

// CheckoutLicenseOutput
// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {

return nil, err

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntertimentsAllowed []types.EntitlementData
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
package licensemanager

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
  // *
  // Beneficiary
  //
  // * ProductSKU
  //
  // * KeyFingerprint
  //
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

} /* type ListLicensesOutput */

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
}
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    return nil
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSigherV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddFieldResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.122 xerces-j 2.7.1
1.122.1 Available under license:

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

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 */

Found in path(s):
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/DeferredAttrImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources.jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
jar/org/apache/xml/serialize/Encodings.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/validation/ValidationManager.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeGroupTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeDecl.java

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jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeGroupTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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 */

/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in asynchronous
 *   mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>LSParser</code>. Note that no lexical checking
 *   is done on the absolute URI. In order to create a
 *   <code>LSParser</code> for any kind of schema types (i.e. the
 *   LSParser will be free to use any schema found), use the value
 *   <code>null</code>.
 *   <p>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>]
 *   . applications must use the value
 *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
 *   applications must use the value
 *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
  * absolute URI in order to use this method.
* @return The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* </p>
* <b>Note:</b> By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>"
* configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>error-handler</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
* */

Found in path(s):
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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* */

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  jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/External SubsetResolver.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/io/MalformedByteSequenceException.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

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  /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/AttributePSVImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLComponent.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/XMLDocumentHandler.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/iml/dv/xs/FloatDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java

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  jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xs/XSIDCDefinition.java
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  jar/org/apache/xerces/xs/XSObjectList.java
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  jar/org/apache/xerces/xs/XSTypeDefinition.java
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  jar/org/apache/xerces/xs/XSImplementation.java
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  jar/org/apache/xerces/xs/XSObjectList.java
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  jar/org/apache/xerces/xs/XSMultiValueFacet.java
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  jar/org/apache/xerces/xs/XSNamespaceItem.java
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  jar/org/apache/xerces/xs/XSNamespaceItem.java
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  jar/org/apache/xerces/xs/XSNamedMap.java
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  jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
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  jar/org/apache/xerces/impl/xs/ItemPSVI.java
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  jar/org/apache/xerces/impl/xs/ItemPSVI.java
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jar/org/apache/xerces/impl/dv/xs/DecimalDV.java

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  jar/org/apache/xerces/impl/xml/serialize/DOMSerializerImpl.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ElementNSImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLLeaf.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/implement/xml/serialize/XML11DTDProcessor.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAccessElement.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactory.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
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  jar/org/w3c/dom/html/HTMLDOMImplementation.java

1.123 balanced-match 1.0.0

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.131 read-cmd-shim 2.0.0

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.149 path-to-regexp 0.1.7

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1.153 safe-buffer 5.2.1

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1.156 humanize-ms 1.2.1

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1.157 go-openapi 0.19.24

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1.159 apacheutils 2.4.29-1ubuntu4.14

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.
Contributors to this code include:

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- Eric Haines, erich@eye.com
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- Randy Terbush, randy@zyzzyva.com
  port to Apache module format, "base_uri" and support for relative URLs
- James H. Cloos, Jr., cloos@jhcloos.com
  Added point datatype, using code in NCSA's version 1.8 imagemap.c
  program, as distributed with version 1.4.1 of their server.
  The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
- Nathan Kurz, nate@tripod.com
  Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:
- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
- Old: directive URL [x,y ...]
- New: directive URL "Menu text" [x,y ...]
  or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

- Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

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Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by
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### 1.162 protobuf 1.26.0

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1.183 cadvisor v0.27.1

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1.184 isc-dhcp 4.3.5-3ubuntu7.3

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1.186 xorg 7.7+19ubuntu7.1

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.187 libnss 3.35-2ubuntu2.13

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### 1.189 python-pyasn1 0.4.2-3

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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()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```
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
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

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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Found in path(s):
* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1.tar-gz/pyasn1-0.4.2/README.md
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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 if 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/>`_ 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

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.

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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.

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* `/opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst`

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* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/tests/compat/__main__.py
* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/tests/compat/test_integer.py
* /opt/cola/permits/1100831764_1602896378.1/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/tests/codec/der/test_decoder.py
0.4.2/tests/codec/ber/__main__.py
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Metadata-Version: 1.1
Name: pyasn1
Version: 0.4.2
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof <etingof@gmail.com>
Author-email: etingof@gmail.com
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Natural Language :: English
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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1.190 prometheus-procfs 0.0.0-20190529155944-65bdadfa96ae

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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
* *
* @param executable The executable of interest.
* *
* @return A list with parameter meta data for the given executable.
* *
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> JSR 223 can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 * </p>
 * <p>
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * </p>
 * <pre>
 * [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")]
 * } public void createEvent(Date start, Date end) [ ... ]
 * }
 * </pre>
 * <p>
 * Can be specified on any method or constructor.
 * </p>
 *
 * @author Gunnar Morling
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/util/InterpolationHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfLong.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/validate/valuehandling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/GenericConstraintDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/REGONValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/core/ConstraintHelper.java

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jar/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/Mod11CheckValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/groups/ValidationOrderGenerator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/raw/AbstractConstrainedElement.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraintvalidators/Mod11Check.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraintvalidators/RegexpURLValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraints/EAN.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/MinValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/parameternameprovider/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForMonetaryAmount.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/ConstraintDefinitionTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/MethodTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/ExecutableConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/impl/EngineImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/impl/ValidatorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/path/TreeNode.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DigitsValidatorForCharSequence.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/cfg/context/ExecutableConstraintMappingContextImpl.java

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jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/util/logging/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/messageinterpolation/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/metadata/core/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/metadata/raw/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/cfg/context/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/spi/resourceloading/package.html
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/metadata/descriptor/package.html
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/metadata/location/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/util/annotationfactory/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/resourceimplementation/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/metadata/facets/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/util/scriptengine/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/internal/engine/constraintvalidation/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/php/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/constraints/pl/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/resourceimplementation/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/php/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/constraints/pl/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/org/hibernate/validator/resourceimplementation/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
jar/META-INF/validation-mapping-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
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INF/validation-configuration-1.1.xsd

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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%(#) SRCfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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Data model artifacts for Prometheus.

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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  border-radius: $radius-small;
  border-width: 1px;
}

%notice-success,  
%notice-info,  
%notice-highlight,  
%notice-error,  
%notice-warning {  
  @extend %notice;
}

%notice-success {  
  @extend %frame-green-500, %with-passing;
}

%notice-info {  
  @extend %frame-blue-500, %with-passing; /* needs a better info button*/
}
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---

layout: api
page_title: License - Operator - HTTP API
sidebar_current: api-operator-license
description: |-
    The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

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## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")*  - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

### Sample Request
```text
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response
```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "=",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>------</td>
<td>----------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>
The table below shows this endpoint's support for blocking queries](/api/features/blocking.html), consistency modes](/api/features/consistency.html), agent caching](/api/features/caching.html), and required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl
   --request PUT
   --data @consul.license
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6e-3333c5f9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
      ]
   }
}```
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>>> awsaws-sdk-go-aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
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>>> syncutil_singleflight-7ce08ca145db6e066a127c447b80ee7914f3e4f9
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>>> vishvananda_netlink-482f7a52b758233521878cb6c5904b6bd63f457
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>>> vishvananda_netns-604eaf189ee867d8c147faefc28de2394e878d25
>>> yamli_v2-4c78c975fe7c825c6d1466c42be594d1d6f3aba6

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>>> gizak_termui-798fbb9cbebe4073ef1f88e6069ca4a2c6aa6676b
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>>> go-nfs-client-42fca177a36031d648551c751d1d1af5f55d4f0
>>> godbus_dbus-230e4b23db2fd81c53eaa073f76659d4849ce51
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>>> gogo_protobuf/sortkeys-6a92e871a85f3333cf106b2cdf937567208d8bc27
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>>> gorilla-context-1c83b3eabdb45b6d760726b666746c20815fb2872d
>>> gorilla_muc-acf3be1335ce8e30bc8d513009846660ceefa
>>> gorilla_securecookie-fa5329f9137029f81df43eb2a308bac429c810b5
>>> gorilla_sessions-ca9ada44574153444b00d3fd9c8559e4eca95f896
>>> gorilla_websocket-a91eaba7f97777409b2c443f5534d41d20c5720
>>> graylog2_go-gelf-gelf-master
>>> grpc-b1a2821ca5a4fd666e48ddfb7b6d7d584d839d21
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3dcd66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239c2fcb3432a2

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure_go-ansiterm-70b2e90b260171e829f1ebd7c17f600c11858dbe

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>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59ae9

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65e9

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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```bash
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd
```

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```bash
>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b
```

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6477d0e74ec

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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>>> graylog2_go-gelf_gelf-master

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>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e

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logrus-master.zip/logrus-master/terminal_notwindows.go

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tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16e1872fbcb

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graceful-1.2.15.zip/graceful-1.2.15/limit_listen.go

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>>> urfave_cli_v1-0bdeed8eb0f650497d603c4ad7b20cfe685682f6

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It was heavily inspired by the go blowfish package.

```plaintext
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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+build appengine

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package short

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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Bison implementation for Yacc-like parsers in C


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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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```

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```

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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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Written by Ian Lance Taylor, Cygnus Support

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\mkinstalldirs

mkinstalldirs --- make directory hierarchy
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procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\pmap.c

pmap.c - print process memory mapping
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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/parser-built

A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit.
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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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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
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Version 2, June 1991

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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

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Version 2.1, February 1999

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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.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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.

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:

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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
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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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least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE

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

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--------------------------
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mgo - MongoDB driver for Go

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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
  Entity

  // no documentation yet
  Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

  // no documentation yet
  AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

  // no documentation yet
  EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

  // no documentation yet
  WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
  Entity

  // no documentation yet
  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"
// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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Dd May 13, 2011
Dt QUEUE 3
Os
Sh NAME
Nm SLIST_EMPTY,
Nm SLIST_ENTRY,
Nm SLIST_FIRST,
Nm SLIST_FOREACH,
Nm SLIST_FOREACH_SAFE,
.Nm SLIST_HEAD ,
.Nm SLIST_HEAD_INITIALIZER ,
.Nm SLIST_INIT ,
.Nm SLIST_INSERT_AFTER ,
.Nm SLIST_INSERT_HEAD ,
.Nm SLIST_NEXT ,
.Nm SLIST_REMOVE_AFTER ,
.Nm SLIST_REMOVE_HEAD ,
.Nm SLIST_REMOVE ,
.Nm SLIST_SWAP ,
.Nm STAILQ_CONCAT ,
.Nm STAILQ_EMPTY ,
.Nm STAILQ_ENTRY ,
.Nm STAILQ_FIRST ,
.Nm STAILQ_FOREACH ,
.Nm STAILQ_FOREACH_SAFE ,
.Nm STAILQ_HEAD ,
.Nm STAILQ_HEAD_INITIALIZER ,
.Nm STAILQ_INIT ,
.Nm STAILQ_INSERT_AFTER ,
.Nm STAILQ_INSERT_HEAD ,
.Nm STAILQ_INSERT_TAIL ,
.Nm STAILQ_LAST ,
.Nm STAILQ_NEXT ,
.Nm STAILQ_REMOVE_AFTER ,
.Nm STAILQ_REMOVE_HEAD ,
.Nm STAILQ_REMOVE ,
.Nm STAILQ_SWAP ,
.Nm LIST_EMPTY ,
.Nm LIST_ENTRY ,
.Nm LIST_FIRST ,
.Nm LIST_FOREACH ,
.Nm LIST_FOREACH_SAFE ,
.Nm LIST_HEAD ,
.Nm LIST_HEAD_INITIALIZER ,
.Nm LIST_INIT ,
.Nm LIST_INSERT_AFTER ,
.Nm LIST_INSERT_BEFORE ,
.Nm LIST_INSERT_HEAD ,
.Nm LIST_NEXT ,
.Nm LIST_REMOVE ,
.Nm LIST_SWAP ,
.Nm TAILQ_CONCAT ,
.Nm TAILQ_EMPTY ,
.Nm TAILQ_ENTRY ,
.Nm TAILQ_FIRST ,
.Nm TAILQ_FOREACH ,
.Nm TAILQ_FOREACH_SAFE ,
.Nm TAILQ_FOREACH_REVERSE ,
.Nm TAILQ_FOREACH_REVERSE_SAFE ,
.Nm TAILQ_HEAD ,
.Nm TAILQ_HEAD_INITIALIZER ,
.Nm TAILQ_INIT ,
.Nm TAILQ_INSERT_AFTER ,
.Nm TAILQ_INSERT_BEFORE ,
.Nm TAILQ_INSERT_HEAD ,
.Nm TAILQ_INSERT_TAIL ,
.Nm TAILQ_LAST ,
.Nm TAILQ_NEXT ,
.Nm TAILQ_PREV ,
.Nm TAILQ_REMOVE ,
.Nm TAILQ_SWAP
.Nd implementations of singly-linked lists, singly-linked tail queues,
lists and tail queues
.Sh SYNOPSIS
.In sys/queue.h
""
.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_HEAD "HEADNAME" "TYPE"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INIT "SLIST_HEAD *head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_HEAD "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "TYPE *elm" "TYPE" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
""
.Fn STAILQ_CONCAT "STAILQ_HEAD *head1" "STAILQ_HEAD *head2"
.Fn STAILQ_EMPTY "STAILQ_HEAD *head"
.Fn STAILQ_ENTRY "TYPE"
.Fn STAILQ_FIRST "STAILQ_HEAD *head"
.Fn STAILQ_FOREACH "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
.Fn STAILQ_FOREACH_SAFE "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn STAILQ_HEAD "HEADNAME" "TYPE"
.Fn STAILQ_HEAD_INITIALIZER "STAILQ_HEAD head"
.Fn STAILQ_INIT "STAILQ_HEAD *head"
.Fn STAILQ_INSERT_AFTER "STAILQ_HEAD *head" "TYPE *listelm" "TYPE *elm" "STAILQ_ENTRY NAME"
.Fn STAILQ_INSERT_HEAD "STAILQ_HEAD *head" "TYPE *elm" "STAILQ_ENTRY NAME"
These macros define and operate on four types of data structures: singly-linked lists, singly-linked tail queues, lists, and tail queues. All four structures support the following functionality:

Insertion of a new entry at the head of the list.
Insertion of a new entry after any element in the list.
O(1) removal of an entry from the head of the list.
Forward traversal through the list.
Swapping the contents of two lists.

Singly-linked lists are the simplest of the four data structures and support only the above functionality. Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue. Singly-linked lists add the following functionality:

O(n) removal of any entry in the list.

Singly-linked tail queues add the following functionality:

Entries can be added at the end of a list.
O(n) removal of any entry in the list.
They may be concatenated.

However:
All list insertions must specify the head of the list.
Each head entry requires two pointers rather than one.
Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

Singly-linked tailqs are ideal for applications with large datasets and
few or no removals,
or for implementing a FIFO queue.

All doubly linked types of data structures (lists and tail queues) additionally allow:

- Insertion of a new entry before any element in the list.
- O(1) removal of any entry in the list.

However:

- Each element requires two pointers rather than one.
- Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.

Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.

Tail queues add the following functionality:

- Entries can be added at the end of a list.
- They may be traversed backwards, from tail to head.
- They may be concatenated.

However:

- All list insertions and removals must specify the head of the list.
- Each head entry requires two pointers rather than one.
- Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

In the macro definitions,

is the name of a user defined structure, that must contain a field of type

\texttt{SLIST\_ENTRY}.
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The argument `headname` is the name of a user defined structure that must be declared using the macros `slist_head`, `stailq_head`, `list_head`, or `tailq_head`. See the examples below for further explanation of how these macros are used.

```
sh SINGLY-LINKED LISTS
A singly-linked list is headed by a structure defined by the `slist_head` macro.
This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements.
New elements can be added to the list after an existing element or at the head of the list.
An `slist_head` structure is declared as follows:
```

```
```
```
```
```
The macro \texttt{SLIST\_HEAD\_INITIALIZER} evaluates to an initializer for the list \texttt{head}.

The macro \texttt{SLIST\_EMPTY} evaluates to true if there are no elements in the list.

The macro \texttt{SLIST\_ENTRY} declares a structure that connects the elements in the list.

The macro \texttt{SLIST\_FIRST} returns the first element in the list or NULL if the list is empty.

The macro \texttt{SLIST\_FOREACH} traverses the list referenced by \texttt{head} in the forward direction, assigning each element in turn to \texttt{var}.

However, unlike \texttt{SLIST\_FOREACH} here it is permitted to both remove \texttt{var} as well as free it from within the loop safely without interfering with the traversal.

The macro \texttt{SLIST\_INIT} initializes the list referenced by \texttt{head}.
.Nm SLIST_INSERT_HEAD
inserts the new element .Fa elm at the head of the list.
.Pp
The macro
.Nm SLIST_INSERT_AFTER
inserts the new element .Fa elm after the element .Fa listelm.
.Pp
The macro
.Nm SLIST_NEXT
returns the next element in the list.
.Pp
The macro
.Nm SLIST_REMOVE_AFTER
removes the element after .Fa elm from the list. Unlike .Fa SLIST_REMOVE, this macro does not traverse the entire list.
.Pp
The macro
.Nm SLIST_REMOVE_HEAD
removes the element .Fa elm from the head of the list.
For optimum efficiency, elements being removed from the head of the list should explicitly use this macro instead of the generic .Fa SLIST_REMOVE macro.
.Pp
The macro
.Nm SLIST_REMOVE
removes the element .Fa elm from the list.
.Pp
The macro
.Nm SLIST_SWAP
swaps the contents of .Fa head1 and .Fa head2.
.Sh SINGLY-LINKED LIST EXAMPLE
SLIST_HEAD(slisthead, entry) head =
    SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp; /* Singly-linked List head. */
struct entry {
    ...
    SLIST_ENTRY(entry) entries; /* Singly-linked List. */
    ...
} *n1, *n2, *n3, *np;
SLIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);

SLIST_REMOVE(&head, n2, entry, entries); /* Deletion. */
free(n2);
n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries); /* Deletion from the head. */
free(n3);
/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    SLIST_REMOVE(&head, np, entry, entries);
    free(np);
}
while (!SLIST_EMPTY(&head)) { /* List Deletion. */
    n1 = SLIST_FIRST(&head);
    SLIST_REMOVE_HEAD(&head, entries);
    free(n1);
}

SINGLY-LINKED TAIL QUEUES
A singly-linked tail queue is headed by a structure defined by the
STAILQ_HEAD macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of \(O(n)\) removal for arbitrary elements.

New elements can be added to the tail queue after an existing element, at the head of the tail queue, or at the end of the tail queue.

A

.A

STAILQ\_HEAD

structure is declared as follows:

.B

STAILQ\_HEAD(HEADNAME, TYPE) head;

.Ed

Ed

.Pp

where

.Li HEADNAME

is the name of the structure to be defined, and

.Li TYPE

is the type of the elements to be linked into the tail queue.

A pointer to the head of the tail queue can later be declared as:

.Bd

struct HEADNAME *headp;

.Ed

.Pp

(The names

.Li head

and

.Li headp

are user selectable.)

.Pp

The macro

.Nm STAILQ\_HEAD\_INITIALIZER

evaluates to an initializer for the tail queue

.A

.head

.Pp

The macro

.Nm STAILQ\_CONCAT

concatenates the tail queue headed by

.A

.head2

onto the end of the one headed by

.A

.head1

removing all entries from the former.

.Pp

The macro

.Nm STAILQ\_EMPTY

evaluates to true if there are no items on the tail queue.

.Pp

The macro

.Nm STAILQ\_ENTRY

declares a structure that connects the elements in
the tail queue.

The macro

returns the first item on the tail queue or NULL if the tail queue is empty.

The macro

traverses the tail queue referenced by

in the forward direction, assigning each element in turn to

However, unlike

here it is permitted to both remove

as well as free it from within the loop safely without interfering with the traversal.

The macro

initializes the tail queue referenced by

The macro

inserts the new element

at the head of the tail queue.

The macro

inserts the new element

at the end of the tail queue.

The macro


inserts the new element

after the element

.Pp

The macro

returns the last item on the tail queue.

If the tail queue is empty the return value is

.Dv NULL .

.Pp

The macro

returns the next item on the tail queue, or NULL this item is the last.

.Pp

The macro

removes the element after

from the tail queue. Unlike

this macro does not traverse the entire tail queue.

.Pp

The macro

removes the element at the head of the tail queue.

For optimum efficiency,

elements being removed from the head of the tail queue should

use this macro explicitly rather than the generic

macro.

.Pp

The macro

removes the element

from the tail queue.

.Pp

The macro

swaps the contents of

and

.Sh SINGLY-LINKED TAIL QUEUE EXAMPLE

.Bd -literal

STAILQ_HEAD(stailhead, entry) head =

STAILQ_HEAD_INITIALIZER(head);
struct stailhead *headp;/* Singly-linked tail queue head. */
struct entry {
...
STAILQ_ENTRY(entry) entries;/* Tail queue. */
...
} *n1, *n2, *n3, *np;

STAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);
/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);
/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);
/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)
np-> ...
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
STAILQ_REMOVE(&head, np, entry, entries);
free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {

n1 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n1);
}
/* Faster TailQ Deletion. */
n1 = STAILQ_FIRST(&head);
while (n1 != NULL) {
n2 = STAILQ_NEXT(n1, entries);
free(n1);
n1 = n2;
}
STAILQ_INIT(&head);
A list is headed by a structure defined by the
`LIST_HEAD` macro.
This structure contains a single pointer to the first element
on the list.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the list.
New elements can be added to the list after an existing element,
before an existing element, or at the head of the list.
A
```
LIST_HEAD(HEADNAME, TYPE) head;
```
where
```
HEADNAME
```
is the name of the structure to be defined, and
```
TYPE
```
is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:
```
struct HEADNAME *headp;
```
(The names
```
head
```
and
```
headp
```
are user selectable.)
The macro
```
LIST_HEAD_INITIALIZER
```
evaluates to an initializer for the list
```
hread
```
The macro
```
LIST_EMPTY
```
evaluates to true if there are no elements in the list.
The macro
```
LIST_ENTRY
```
declares a structure that connects the elements in
the list.
The macro
.Nm LIST_FIRST
returns the first element in the list or NULL if the list
is empty.
.Pp
The macro
.Nm LIST_FOREACH
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
.Pp
The macro
.Nm LIST_FOREACH_SAFE
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
However, unlike
.Fn LIST_FOREACH
here it is permitted to both remove
.Fa var
as well as free it from within the loop safely without interfering with the
traversal.
.Pp
The macro
.Nm LIST_INIT
initializes the list referenced by
.Fa head .
.Pp
The macro
.Nm LIST_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the list.
.Pp
The macro
.Nm LIST_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm .
.Pp
The macro
.Nm LIST_INSERT_BEFORE
inserts the new element
.Fa elm
before the element
The macro `LIST_NEXT` returns the next element in the list, or NULL if this is the last.

The macro `LIST_REMOVE` removes the element `elm` from the list.

The macro `LIST_SWAP` swaps the contents of `head1` and `head2`.

### LIST EXAMPLE

```c
LIST_HEAD(listhead, entry) head =
    LIST_HEAD_INITIALIZER(head);
struct listhead *headp; /* List head. */
struct entry {
    ...
LIST_ENTRY(entry) entries; /* List. */
...
} *n1, *n2, *n3, *np, *np_temp;
LIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
LIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
LIST_INSERT_AFTER(n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
LIST_INSERT_BEFORE(n2, n3, entries);

LIST_REMOVE(n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
LIST_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
```
np->do_stuff();
...
LIST_REMOVE(np, entries);
free(np);
}

while (!LIST_EMPTY(&head)) { /* List Deletion. */
n1 = LIST_FIRST(&head);
LIST_REMOVE(n1, entries);
free(n1);
}

n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
    n2 = LIST_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pr
where
.Li HEADNAME
is the name of the structure to be defined, and
.Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
(The names
.head
.and
.headp
are user selectable.)

The macro

.TAILQ_INITIALIZER
evaluates to an initializer for the tail queue
.head.

The macro

.TAILQ_CONCAT
concatenates the tail queue headed by
.head2
onto the end of the one headed by
.head1
removing all entries from the former.

The macro

.TAILQ_EMPTY
evaluates to true if there are no items on the tail queue.

The macro

.TAILQ_ENTRY
declares a structure that connects the elements in
the tail queue.

The macro

.TAILQ_FIRST
returns the first item on the tail queue or NULL if the tail queue
is empty.

The macro

.TAILQ_FOREACH
traverses the tail queue referenced by
.var.
in the forward direction, assigning each element in turn to
.var.
is set to
.NULL
if the loop completes normally, or if there were no elements.

The macro

.TAILQ_FOREACH_REVERSE
traverses the tail queue referenced by
in the reverse direction, assigning each element in turn to .Fa var .
.Pp
The macros .Nm TAILQ_FOREACH_SAFE and
.Nm TAILQ_FOREACH_REVERSE_SAFE traverse the list referenced by .Fa head
in the forward or reverse direction respectively, assigning each element in turn to .Fa var .
However, unlike their unsafe counterparts, .Nm TAILQ_FOREACH and
.Nm TAILQ_FOREACH_REVERSE permit to both remove .Fa var
as well as free it from within the loop safely without interfering with the traversal.
.Pp
The macro .Nm TAILQ_INIT initializes the tail queue referenced by .Fa head .
.Pp
The macro .Nm TAILQ_INSERT_HEAD inserts the new element .Fa elm
at the head of the tail queue.
.Pp
The macro .Nm TAILQ_INSERT_TAIL inserts the new element .Fa elm
at the end of the tail queue.
.Pp
The macro .Nm TAILQ_INSERT_AFTER inserts the new element .Fa elm
after the element .Fa listelm .
.Pp
The macro .Nm TAILQ_INSERT_BEFORE
inserts the new element
.insert
.before the element
.list
.Pp
The macro
.TAILQ_LAST
returns the last item on the tail queue.
If the tail queue is empty the return value is
.NULL.
.Pp
The macro
.TAILQ_NEXT
returns the next item on the tail queue, or NULL if this item is the last.
.Pp
The macro
.TAILQ_PREV
returns the previous item on the tail queue, or NULL if this item is the first.
.Pp
The macro
.TAILQ_REMOVE
removes the element
.insert
from the tail queue.
.Pp
The macro
.TAILQ_SWAP
swaps the contents of
.insert
and
.insert
.Sh TAIL QUEUE EXAMPLE
.Bd -literal
TAILQ_HEAD(tailhead, entry) head =
TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp;/* Tail queue head. */
struct entry {
... TAILQ_ENTRY(entry) entries;/* Tail queue. */
...
}*n1, *n2, *n3, *np;

TAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);
n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries); /* Deletion. */
free(n2);

/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
  np-> ...
/* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
  np->do_stuff();
  ...
  TAILQ_REMOVE(&head, np, entries);
  free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
  np-> ...
/* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
  n1 = TAILQ_FIRST(&head);
  TAILQ_REMOVE(&head, n1, entries);
  free(n1);
}
/* Faster TailQ Deletion. */
while (n1 != NULL) {
  n2 = TAILQ_NEXT(n1, entries);
  free(n1);
  n1 = n2;
}  
TAILQ_INIT(&head);
.Ed
.Sh SEE ALSO
.Xr tree 3
.Sh HISTORY
The
.Nm queue
functions first appeared in
.Bx 4.4 .

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-- Keir Fraser (on behalf of the Xen team)

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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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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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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
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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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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
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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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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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from various sources on the Internet, and I'd also like to thank Oliver
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1.212 golang-snappy 0.0.1

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1.213 libvirt-python 4.0.0-1

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1.217 selinux 2.7-2build2

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.218 go-openapi-spec 0.20.3
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   package spec
import (  "encoding/json"  "testing"
  "github.com/stretchr/testify/assert"
)

var license = License{  LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  VendorExtensible: VendorExtensible{Extensions: map[string]interface {}{"x-license": "custom term"}}}

const licenseJSON = `  "name": "the name",  "url": "the url",  "x-license": "custom term"`

func TestIntegrationLicense(t *testing.T) {
  // const licenseYAML = "name: the name\nurl: the url"

  b, err := json.MarshalIndent(license, "", "\t")
  if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
  }

  actual := License{}
  err = json.Unmarshal([]byte(licenseJSON), &actual)
  if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
  }
}

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import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// // For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.219 hk2-api 2.5.0

1.220 extend 3.0.2

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1.221 go-restful 2.9.5+incompatible

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1.223 github.com/influxdata/toml 0.0.0-20190415235208-270119a8ce65
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1.226 x-text v0.3.6

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1.227 logrus 1.5.0

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1.228 libtextwrapinperl 0.06-7.1

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1.229 form-data 2.3.3

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1.233 json-c 0.99.8-2

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1.234 pynacl 1.4.0

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1.236 libxi 1.7.9-1

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1.237 kubernetes-klog 2.0.0

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1.238 ansible 2.9.7

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- when: vcsim is not defined
  block:
    - name: Add a vCenter evaluation license
      vcenter_license: &vcenter_lic_data
        hostname: "{{ vcenter_hostname }}"
        username: "{{ vcenter_username }}"
        password: "{{ vcenter_password }}"
        validate_certs: no
        license: 00000-00000-00000-00000-00000
        state: present

    - name: Remove an (unused) vCenter evaluation license
      vcenter_license:
        <<: *vcenter_lic_data
        state: absent

    - name: Add an invalid vCenter license
      vcenter_license:
        <<: *vcenter_lic_data
        license: 00000-00000-00000-00000-00001
        state: present
      register: vcenter_license_output
      failed_when: "is not existing or can not be added" not in vcenter_license_output.msg'
dependencies:
- prepare_vmware_tests

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

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Version 2.1, February 1999

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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.

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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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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.

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

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

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

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

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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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1.249 ruby-net-telnet 0.1.1 2

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1.251 libdnet 1.12-7build1

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1.252 gpm 1.20.7-5

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Version 2, June 1991

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========

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1.256 prometheus-client 1.1.0

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1.257 jackson-databind 2.11.1

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1.259 jaxb-api 2.2.11

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### 1.262 jackson-dataformat-yaml 2.9.10

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1.263 http-errors 1.7.2

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1.270 moby-locker 1.0.1

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1.271 google-go-cmp 0.5.4

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1.272 sergi-go-diff 1.0.0

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1.273 go-kit 0.10.0

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1.274 kubernetes-apimachinery 0.18.8

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1.275 json-iterator-go 1.1.9

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1.278 go-colorable 0.1.9

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1.279 yallist 4.0.0

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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 d308228d796df35f98d787c5cff2bb5b6.

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 pistream 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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1.283 click 6.7

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1.284 spew v1.1.1

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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 pistream 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.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!- $Id$ -->

<!---- Generate ISC copyright comments from Docbook copyright metadata. -->

<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"/>
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL }
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{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s\"%s\", %d, %d, %s, %d\", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s\"%d,%#o\", %d, %d, %d\", NULL, NULL },
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{ TARGET_FREEBSD_NR_fork, "fork", "%s\", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getppid, "getppid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s\"%d,%d\", %d, %d, %d\", NULL, NULL },
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{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signaction, "signaction", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(""%s"",%p)", NULL, NULL },
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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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
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,
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link a "work that uses the Library" with the Library to produce a
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copyright notice for the Library among them, as well as a reference
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of these things:

a) Accompany the work with the complete corresponding
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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
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to use the modified definitions.)

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

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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1.314 libtext-charwidth-perl 0.04-7.1

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc(`/licenses`, func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"
]`)}
)

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }
}
want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, "{"key":"mit","name":"MIT"}"
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}
// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    resp := new([]License)
    resp, err := s.client.Do(req, resp)
    if err != nil {
        return nil, nil, err
    }
    return *resp, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}
return license, resp, err

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Version 3, 29 June 2007

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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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========

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1.326 github.com/masterminds/sprig/v3 3.1.0

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1.330 meld 1.0.2

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1.336 github.com/moby/locker 1.0.1
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1.337 ajv 6.12.6

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1.338 argparse 1.4.0
1.338.1 Available under license :

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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@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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DES core in libhcrypto
D3DES (V5.09) -

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* github.com/google/renameio - https://github.com/google/renameio

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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* golang.org/x/mod/module - https://github.com/golang/mod

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package simulator

import (  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/soap"  
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{  
    LicenseKey: "00000-00000-00000-00000-00000",  
    EditionKey: "eval",  
    Name: "Evaluation Mode",  
    Properties: []types.KeyAnyValue{  
        {  
            Key: "feature",  
            Value: types.KeyValue{  
                Key: "serialuri:2",  
                Value: "Remote virtual Serial Port Concentrator",  
            },  
        },
    },
}


Key: "feature",
Value: types.KeyValue{
Key: "dvs",
Value: "vSphere Distributed Switch",
},
},
},
}


type LicenseManager struct {
mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
        }
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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limitations under the License.

package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
}

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

### Install Tar

Copy requires that `tar` be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.
- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/some-pod:/tmp/bar
```

runc

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1.344 grpc-gateway 1.16.0

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1.347 httpsnoop 1.0.1

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1.367 popt 1.16-11

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1.368 x-sys 0.0.0-20211216021012-1d35b9e2eb4e

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1.369 file 5.32-2ubuntu0.4

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1.370 python-ipaddr 2.2.0-1.ph3

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1.371 logrus 1.8.1

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1.372 json-stringify-safe 5.0.1

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1.373 xorm 0.8.1

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1.374 github.com/rubenv/sql-migrate 0.0.0-20200212082348-64f95ea68aa3

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1.375 prometheus-client 1.10.0

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1.377 kubernetes/kubectl 0.23.1

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1.378 k8s-io-apixextensions-apiserver 0.18.12

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1.380 xorm.io-core 0.7.3
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1.381 jetty-util 9.4.16.v20190411

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

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

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**OW2**

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

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

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**Apache**

The following artifacts are ASL2 licensed.

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

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**MortBay**

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

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

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

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.382 etc 1.0.0

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1.384 oauthlib 3.1.1

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1.385 cookie 0.4.0

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1.386 mergo 0.2.2

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string

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1.387 astroid 1.6.0 1

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1.400 vary 1.1.2

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1.401 distlib 0.2.6

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

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

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

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==================================
Distutils2 Contributors
==================================

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

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1.404 go-kit-kit 0.10.0

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1.405 go-syslog 1.0.0

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1.406 gopsutil 0.0.0-20190323131628-2cbc9195c892

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1.407 jpillar-backoff 1.0.0

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1.408 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.409 c-ares 1.8.12

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* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_fds.3
* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_parse_naptr_reply.3
* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_timeout.3
* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_query.3
* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_process.3
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* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_gethostbyname.c
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Changelog for the c-ares project. Generated with git2changes.pl

Version 1.8.0 (27 Apr 2012)

Daniel Stenberg (27 Apr 2012)
- RELEASE-NOTES: call next 1.8 instead

Since we added a function, let's use a stricter bumping scheme

Yang Tse (25 Apr 2012)
- INSTALL: some adjustments

Daniel Stenberg (25 Apr 2012)
- GIT-INFO: mention buildconf

Yang Tse (25 Apr 2012)
- INSTALL: remove more sections that don't apply to c-ares
- ares_timeout.c: fix compiler warning

Daniel Stenberg (25 Apr 2012)
- [Ben Noordhuis brought this change]

Makefile.m32: fix mingw32 build

* add . to include path so ares_build.h is picked up
* make ar configurable to ease cross-compiling

- RELEASE-NOTES: added what's happened since 1.7.5

Guenter Knauf (22 Apr 2012)
- Updated copyright year.

Yang Tse (21 Apr 2012)
- ares_init.c: Further refactoring of Windows system's DNS fetching code

Guenter Knauf (20 Apr 2012)
- Android: small changes to dns property part.

Prefix prop vars; kill var; use DNS_PROP_NAME_PREFIX macro.

- Handle CNAME-only in ares_parse_aaaa_reply().

posted to the c-ares list by Peter Griess <pg@std.in>.

- Add support for multiple DNS servers on Android.

Before, c-ares always used the first DNS server on Android, causing network problems if this DNS server was not available.

Signed-off-by: Geert Uytterhoeven <Geert.Uytterhoeven@sonycom.com>

- Added INSTALL so it gets into tarballs.

- Added some more ifdefs to silent compiler warnings.

Yang Tse (17 Apr 2012)
- INSTALL: remove a non c-ares section

- cares-compilers.m4: -Wno-pedantic-ms-format for Windows gcc 4.5 builds

When building a Windows target with gcc 4.5 or newer and strict compiler warnings enabled use -Wno-pedantic-ms-format in addition to other flags.

- setup_once.h: tighten requirements for stdbool.h header inclusion

Include stdbool.h only when it is available and configure is capable of detecting a proper 'bool' data type when the header is included.

- configure: NATIVE_WINDOWS no longer defined in config file

- cares-compilers.m4: double underscore decoration for visibility attribute

- build adjustments: CARES_SYMBOL_HIDING no longer defined in config files

configure script now provides conditional definitions for Makefile.am that result in CARES_SYMBOL_HIDING being defined by resulting makefiles when appropriate.

- configure: Windows cross-compilation fixes

CARES_BUILDING_LIBRARY and CARES_STATICLIB no longer defined in ares_config.h, configure will generate appropriate conditionals so that mentioned symbols get defined and used in Makefile derived from Makefile.am at compilation time.
Guenter Knauf (17 Apr 2012)
- Added INSTALL file adapted from libcurl.

Not yet ready, and needs further edits.

Yang Tse (16 Apr 2012)
- ares_init.c: get_iphlpapi_dns_info() refactoring

Guenter Knauf (16 Apr 2012)
- Kill some more compiler warnings.
- Kill compiler warning about unused var.
- Fixed my last commit: wrong preprocessor directive.
- Check for __ANDROID__ in addition to ANDROID macro.
- Check for __ANDROID__ in addition to ANDROID macro.

Posted to c-ares list by Wayne.
- Fix for Android to disable useless arpa/nameser.h.
- Fix for Android to include sys/select.h for fd_set.

Yang Tse (17 Mar 2012)
- ares_data.c: some NAPTR related fixes

Daniel Stenberg (16 Mar 2012)
- port numbers: convert them to network order!

When the config options ARES_OPT_UDP_PORT or ARES_OPT_TCP_PORT are used, make sure to convert them to network byte order!

Bug: http://c-ares.haxx.se/mail/c-ares-archive-2012-02/0004.shtml
- white space cleanup
- Keep code within 80 columns
- Removed funny spaces after open paren and before closing paren
- [Poul Thomas Lomholt brought this change]

get_iphlpapi_dns_info: fix buffer overrun

I experienced a buffer overrun exception in c-ares on Windows and tracked it down to be an error in the calculation of the 'left' variable
in get_iphlpapi_dns_info().

I changed the variable type of 'left' to a _signed_ type because of the subtraction arithmetic; not sure if a long is the best choice

- Merge pull request #7 from saghul/naptr

Added support for parsing NAPTR records

saghul (23 Feb 2012)
- Added support for parsing NAPTR records

Yang Tse (19 Jan 2012)
- ares_init.c: fix compiler warning on winsock builds

- configure: libtool 1.5 tweaks

Daniel Stenberg (19 Dec 2011)
- ares_timeout.3: fix the NAME section

It was clearly a copy n' paste error

Yang Tse (27 Sep 2011)
- [Albert Chin brought this change]

configure - m4: make CURL_CHECK_DEF ignore leading whitespace on symbol def

When using Sun C compiler the preprocessor somehow inserts an extra space in front of replaced symbol, breaking CURL_CHECK_DEF macro. To workaround this, macro CURL_CHECK_DEF now ignores all leading whitespace in front of symbol substitution result.

- ares_init.c: fix segfault triggered in ares_init_options() upon previous failure of init_by_defaults() and incomplete cleanup there.

- ares_process.c: fix compiler warning

- fix MSVC compiler warning 'conditional expression is constant'

- setup_once.h cleanup and sync

- [Denis Bilenko brought this change]

ares_getnameinfo: fix random results with c-ares 1.7.5

In ares_getnameinfo memcpy did not copy enough bytes, causing it to return arbitrary memory contents as a result.
- warnings: fix another 'conversion may lose significant bits' compiler warning

- ares_dns.h: adjust DNS__16BIT and DNS__32BIT macro definitions

Fixing compiler warnings existing definitions triggered on these.

- ares_destroy.c: fix segfault in ares_destroy_options()

Daniel Stenberg (21 Aug 2011)
- ares_parse_srv_reply: silence compiler warnings

... by adding ugly typecasts.

- CHANGES: generate from script

The CHANGES file is now generated automatically with 'git2changes.pl',
invoked by the maketgz script which is used to build release archives.

The former human edited CHANGES file was renamed to CHANGES.0 in git.

Yang Tse (21 Aug 2011)
- Makefile.netware: SIZEOF_SHORT definition

- warnings: fix some 'conversion may lose significant bits' compiler warnings

- configure: fix symbol hiding usability check

A more thorough test is done now in order to determine visibility attribute
usability, given that some compilers don't support visibility attribute on
all configurations.

Daniel Stenberg (16 Aug 2011)
- 1.7.6: start working...

Version 1.7.5 (16 Aug 2011)

Daniel Stenberg (16 Aug 2011)
- CHANGES: synced for 1.7.5 release

- RELEASE-NOTES: synced with bb4096eefef7f000

Jakub Hrozek (15 Aug 2011)
- Only fall back to AF_INET searches when looking for AF_UNSPEC addresses

Yang Tse (10 Aug 2011)
- [Gisle Vanem brought this change]

ares_iphlpapi.h: Watcom C fix
Added "!defined(_WS2DEF_)" since Watcom doesn't have a per type guard for the typedefs 'CSADDR_INFO' (that MingW has) or 'SOCKET_ADDRESS' (that MSVC has). But we can use the header-guard for <ws2def.h> instead.

- [Gisle Vanem brought this change]

Makefile.Watcom:
* The 'NTDDI_VERSION' needs to be raised to 0x05010000 in order for SOCKADDR_STORAGE etc. to be typedefed.
* Replaced '-dUSE_WATT32' with '-dWATT32'.
* Added $(DEMONS) to the 'all' target and removed the 'demos' target to be consistent with e.g. Makefile.msvc etc.
* 'ENABLE_IPV6' is no longer used. Hence removed the '%use_ipv6' construct.
* object-file order seems to be important (Watcom v.19). Hence 'ares_getopt.obj' must be put after the .obj that references getopt().

- cares-compilers.m4: CARES_CONVERT_INCLUDE_TO_ISYSTEM adjustments

Add CARES_CHECK_COMPILER as a requirement.

Ensure macro does nothing unless GNU_C or CLANG compiler is used.

This should allow usage of this macro in unforeseen placements.

- config-win32.h: comments adjustments - followup

- config-win32.h: comments adjustments

Daniel Stenberg (5 Aug 2011)
- [Tom Hughes brought this change]

ares_parse_a_reply: fix memleak

Yang Tse (29 Jul 2011)
- cares-functions.m4 serial # bump

- Revert "configure: additional flag checks for fcntl() and socket()"

This reverts commit 5f2a3b0e48f26d24cb1fefa0dccb92d417dcbf7.

- configure: additional flag checks for fcntl() and socket()

- xc-translit.m4 fix quoting

- configure: avoid direct usage of AS_TR_* macros
- xc-translit.m4 provides transliteration macros with well defined behavior.

Jakub Hrozek (15 Jun 2011)
- Revert "Only fall back to AF_INET searches when looking for AF_UNSPEC addresses"

This reverts commit b5823d65706af687c0e5110af8f0cfed068997d.

This patch was not reviewed properly before pushing

- Revert "Do not use sized constants in public headers"

This reverts commit 22c01e96f7b2ae9923e1baa50bfe3c0d22297a7d.

This is a Red Hat specific patch that does not belong into upstream

- Use correct sizeof in ares_getnameinfo()

- Do not leak rr_name on failures inside ares_parse_ptr_reply

- Do not leak rr_name on failures inside ares_parse_a_reply

- Do not leak rr_name on failures inside ares_parse_aaaa_reply

- Do not leak rr_name on failures inside ares_parse_ns_reply

- Fix incorrect sizeof() in ares_save_options

- Fix incorrect allocation in ares_parse_ptr_reply()

- Only fall back to AF_INET searches when looking for AF_UNSPEC addresses

- Do not use sized constants in public headers

Daniel Stenberg (13 Jun 2011)
- [Jakub Hrozek brought this change]

aires_free_hostent(NULL) should be a noop

Yang Tse (8 Jun 2011)
- configure: fix recvfrom 5th arg type qualifier detection (followup)

- configure: fix recvfrom 5th arg type qualifier detection

Additionally remove whitespace from EOL

Daniel Stenberg (4 Jun 2011)
- strlen: use size_t to receive the return
Yang Tse (4 Jun 2011)
- xlc: avoid preprocessor definition usage when linking

- ares_nowarn: icc 9.1 workaround

- ares_nowarn: header inclusion fix

- ares_init: make ares_private.h last included header again

- compiler warning: fix

Fix compiler warning: conversion may lose significant bits

- compiler warning: fix

Fix compiler warning: variable was set but never used

Fix compiler warning: clobber ignored

- ares_iphlpapi: fix compiler warnings

- winsock: compilation fixes

Provide winsock iphlpapi alternative definitions to prevent compilation failures when using a variety of winsock header implementations.

Daniel Stenberg (17 May 2011)
- [David Stuart brought this change]

IPv6-on-windows: find DNS servers correctly

- man pages: docs for the c-ares utility programs

- ares_parse_ns_reply.c: remove CVSism

Yang Tse (27 Mar 2011)
- build: fix header inclusion

- getservbyport replacement for Win CE

- renamed getplatform() to ares__getplatform() to avoid namespace pollution

- configure: fix libtool warning

Recent versions of libtool are now tracing usage of AC_CONFIG_MACRO_DIR macro and warn heavily when not used in configure script along with ACLOCAL_AMFLAGS in Makefile.am. So in order to make libtool happy while keeping backwards compatibility this is added.
- adig: RFC4034 resource record type detection

Can be tested with: adig -s 8.8.8.8 -t ANY example.com

- nameser.h: RFC4034 resource record type definitions

- build: move platform stuff to ares_platform.c and ares_platform.h

- build: find out windows platform using GetVersionEx()

- build: use getenv() replacement function for systems which lack it

- setup_once: system error codes for Windows CE

- ares_search: use ERRNO macro for portability sake

- System's errno.h inclusion cleanup follow-up.

  System's errno.h is conditionally included from setup_once.h

- Windows CE specific adjustment

  All versions of Windows CE support Winsock 1.1

- System's errno.h inclusion cleanup.

  System's errno.h is conditionally included from setup_once.h

- ares_init: fix gethostname error detection on winsock platforms

- configure: r-enable temporarily disabled detection of system's inet_ntop()

  Detection was temporarily disabled in commit 674e044ccb21f2f63537da53565fce868f

  Daniel Stenberg (15 Mar 2011)

- configure: stop using the deprecated AM_INIT_AUTOMAKE syntax

- [Gisle Vanem brought this change]

  Watt-32: use errno

  Make sure Watt-32 programs use 'errno' even on Win32 targets

  Guenter Knauf (18 Feb 2011)

  - Removed commented CLFAGS no longer needed.

  - Fixed CFLAGS for NetWare.
Added -m32 to enable compilation with x86_64 compilers; added conditional to set -fpcc-struct-return only for gcc compiler.

Daniel Stenberg (18 Feb 2011)
- [Gisle Vanem brought this change]

Watt32: fix server init

Somewhere in the process, programs using the Watt-32 tcp/ip stack stopped working.

- [Dima Tisnek brought this change]

config_sortlist: (win32) missing else

Without an else there, contents of "pat" that could have been successfully set just above, may be clobbered by successive unsuccessful calls to "xxx_pton" or "ip_addr".

Yang Tse (17 Jan 2011)
- Makefile.msvc: add a couple of VS version strings

- Makefile.msvc: add a couple of VS version strings

- build: add install target to Makefile.msvc

Daniel Stenberg (27 Dec 2010)
- ares_set_servers_csv: remove unused variables

- init_by_resolv_conf: fix compiler warnings

The code received the return codes in the 'status' variable without using it. Instead we just ignore those particular errors.

- getv4: Value stored to 'dst' is never read

- advance_tcp_send_queue: avoid NULL ptr dereference

If given a too large 'num_bytes' value, it would cause a NULL ptr dereference. Instead the code will now break out of the loop at the end of the list.

- [Peter Pentchev brought this change]

configure: fix a bashism

- cleanup: avoid unsafe typecasts
Avoid the risk of reading 16bit data from an unaligned address by using a macro that is adapted for this.

- [Stefan Bhler brought this change]

ares_expand_name: Fix encoded length for indirect root

Yang Tse (18 Dec 2010)
- build: add some explicit file references to VS project files

- config-win32: provide HAVE_ASSERT_H definition

- build: include ares_nowarn in sample program VS project files

- build: include ares_nowarn among SAMPLESOURCES and SAMPLEHEADERS

- configure: temporarily disable detection of system's inet_ntop()

This is done to allow compilation of ares_inet_ntop() by some daily builds picky compilers that otherwise do not need this function.

- changes: mention last fix

- ares_inet_ntop: remove definition and usage of macro SPRINTF

Existing definition of SPRINTF always resulted in sprintf() being used, and sprintf() returning 'int' is already used throughout the library.

- ares_inet_ntop: reapply changes from previous c-ares version (III)

  - Replace 'u_char' with 'unsigned char'.
  - Replace 'u_int' with 'unsigned int'.
  - use macros ERRNO and SET_ERRNO() for errno handling.

- ares_inet_ntop: reapply changes from previous c-ares version (II)

  - Remove rcsid.
  - Adjust header file inclusions.
  - ares_inet_ntop used only on systems without a proper inet_ntop function.

- ares_inet_ntop: reapply changes from previous c-ares version (I)

  - Replace tabs with spaces.
  - Use ANSI C style for function declarations and definitions.
  - Use sizeof with parentheses.

  - ares_inet_ntop: fix off by one error triggering out of bounds write
ares_inet_ntop would trigger an out of bounds write when the representation of the address required 15 characters, due to not taking in account null termination character.

Full import of inet_ntop.c from bind-9.5.3rc1 to pull additional fixes.

- ares_nowarn: add conditional inclusion of assert.h header

- fix compiler warning: conversion may lose significant bits

- ares_inet_net_pton: fix non-rejection of some malformed literals

ares_inet_net_pton would return wrong values when excessively large, and invalid, netmasks are used. Fixes are from bind-9.5.3rc1, issue also described in the WLB-2008080064 advisory.

- setup_once: provide ISASCII macro

- configure: inet_net_pton function check adjustments

Define HAVE_INET_NET_PTON only when system’s inet_net_pton function is IPv6 capable and is not affected by the WLB-2008080064 advisory.

HAVE_INET_NET_PTON_IPV6 is no longer defined nor used.

- ares_init: fix detection of semicolon comments in resolv.conf

File resolv.conf may either use a hash '#' or a semicolon ';' character as an indication that the rest of the line is a comment. This fixes not recognizing the semicolon as a valid comment indicator in resolv.conf.

- version: start working on 1.7.5

Version 1.7.4 (8 Dec 2010)

Daniel Stenberg (8 Dec 2010)
- release-preps: CHANGES and RELEASE-NOTES synced

- ares_set_local_*: added in 1.7.4, not before

Yang Tse (3 Dec 2010)
- build: provide SIZEOF_SIZE_T definition for non-configure builds

- build: config.dos renamed to config-dos.h

- build: provide SIZEOF_SIZE_T netware definition
- ares_gethostbyaddr: fix compiler warning: conversion may lose significant bits

- configure: undo using autobuilds to temporarily verify strict aliasing warnings.

- fix compiler warning: rounding, sign extension, or loss of accuracy may result

Daniel Stenberg (2 Dec 2010)
- [Ben Noordhuis brought this change]

ares_parse_a_reply: fix CNAME response parsing

Reply to a CNAME query doesn't contain addresses, causing
ares_parse_a_reply() to bail out with ARES_ENODATA

Bug: http://groups.google.com/group/nodejs/browse_thread/thread/a1268c9ea5e9ad9b

Yang Tse (1 Dec 2010)
- fix compiler warning: conversion may lose significant bits

- atoi: remove atoi usage

- ares_init: fix compiler warning: conversion may lose significant bits

- configure: fix autoconf warning

- inet_pton: fix compiler warning

- configure: use autobuilds to temporarily verify strict aliasing warnings.

Temporarily, When cross-compiling with gcc 3.0 or later, enable strict aliasing rules and warnings. Given that cross-compiled targets autobuilds do not run the test-suite, there is no risk of running code that violates strict aliasing rules

- ares_getnameinfo: Partially revert commit 85520d66e0ac7ac73411bc25e98769a88b2f

Upon socket address family and length validation failure return ARES_ENOTIMP in callback again, this is the error code documented in man page and used mostly all over the library.

- ares_getnameinfo: Validate socket address family and length.

Validate socket address family and that the socket address length is appropriate for the specified family. Failure is reported with ARES_EBADFAMILY in callback.

- ares_getnameinfo: fix two compiler warnings

- Added another VS10 version string
- Fix GCC 4 compiler warning 'dereferencing type-punned pointer might break strict-aliasing rules'.

- Revert commit 494274e653936335e255a47599970de3df21e7c4

- configure: fix autoconf 2.68 warning: no AC_LANG_SOURCE call detected in body

- Fix compiler warning: array subscript has type 'char'

- Fix GCC 4 compiler warning 'dereferencing type-punned pointer might break strict-aliasing rules'.

- Revert following commits:
  07bc7ea79509bce9ef6e09151e81766ed00d3392
  3392a50ea3f8573ea4b7a9d82b9833dab60cb0e9
  9912637d32c9987719a1ea12db591ae2941891c

The purpose of the whole patch was to silence a compiler warning triggered with GCC 4 on file ares_process.c The specific compiler warning was 'dereferencing type-punned pointer might break strict-aliasing rules'.

A simpler patch will follow to equally silence the warning.

- ares_options: reorder header inclusions to make inclusion of ares_private.h the last included one again.

Daniel Stenberg (12 Nov 2010)
- [Patrik Thunstrom brought this change]

adig: fix NAPTR parsing

I ran across a small "issue" in your adig example.

It is simply the last part of the NAPTR record, the replacement element, which is not a string, as currently handled in adig, but a domain name.

- ares_save_options: assignments instead of memcpy

- init_by_options: don't copy an empty sortlist

If there aren't any sort items to copy, don't bother. Without this little precaution it would do a malloc(0) which causes undefined behaviors and is frowned upon by curl's memdebug-system.

Guenter Knauf (3 Oct 2010)
- Minor Watcom makefile tweaks.

Daniel Stenberg (30 Sep 2010)
- [Mike Crowe brought this change]
Fix lookup with HOSTALIASES set.

ares__read_line returns ARES_EOF when it reaches the end of the file. This will happen every time when reading to the end of the HOSTALIASES file. Unfortunately single_domain treats this error as being fatal.

Signed-off-by: Mike Crowe <mac@mcrowe.com>

Ben Greear (24 Aug 2010)
- Add missing break that caused get_ares_servers to fail.

Reported-by: Ning Dong <flintning@163.com>
Signed-off-by: Ben Greear <greearb@candelatech.com>

Yang Tse (11 Aug 2010)
- configure: werror related adjustments

Guenter Knauf (8 Aug 2010)
- Added copyright string to ares_version.h and make use of it in other files.
- Block created ares_build.h for NetWare to avoid usage from other platforms.
- Fix to overwrite default libname.
- Some more Watcom makefile massage ...
- Some more Watcom makefile massage ...

Ben Greear (4 Aug 2010)
- sock-addr-storage: Detect and deal with lack of .ss_family member.

AIX, at least, does not have sockaddr_storage.ss_family member.
Detect this in the configure logic and use proper #ifdefs in the ares_process logic.

Signed-off-by: Ben Greear <greearb@candelatech.com>
Tested-by: Tor Arntsen <tor@spacetec.no>

Guenter Knauf (3 Aug 2010)
- Added Watcom makefile based on libcurl's Makefile.Watcom.

Ben Greear (31 Jul 2010)
- typo: Fix compile bug for platforms that don't have sockaddr_storage.

Bug was introduced by me in previous commit.

Signed-off-by: Ben Greear <greearb@candelatech.com>
- Fix aliasing warning in gcc 4.4.4 (at least).

Should be no functional change, though the code gets a bit ugglier.

Signed-off-by: Ben Greear <greearb@candelatech.com>

Daniel Stenberg (31 Jul 2010)
- ares_set_servers_csv: use ISDIGIT

The IS*() set of macros are preferred to the regular is*() functions as they help us avoid the most common pitfalls.

Ben Greear (30 Jul 2010)
- cast arg to isdigit to int

Looks like it might silence a warning on Netware build.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- remove all uses of uint32_t

Previous fix forgot a few.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- fix signed vs unsigned casts warning in ares_gethostbyaddr.c

Signed-off-by: Ben Greear <greearb@candelatech.com>

- local-bind-fixup: Fix inet_pton warning.

Conditionally include <arpa/inet.h> for inet_pton headers.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- build: Enable compiling with -Werror.

This helps find compile warnings because they simply break the build.

To use:
./configure --enable-warnings --enable-werror

Signed-off-by: Ben Greear <greearb@candelatech.com>
- ipv6: Fix some build issues related to the local-bind feature.

Signed-off-by: Ben Greear <greearb@candelatech.com>

Guenter Knauf (29 Jul 2010)
- Replaced uint32_t with unsigned int to fix broken builds on a couple of platforms.

Daniel Stenberg (18 Jul 2010)
- [Ben Greear brought this change]

local-bind: Support binding to local interface/IPs

Add 3 new functions to set the local binding for the out-going socket connection, and add ares_set_servers_csv() to set a list of servers at once as a comma-separated string.

Signed-off-by: Ben Greear <greearb@candelatech.com>

- version: now start on 1.7.4

- [Andrew C. Morrow brought this change]

fix memory leak in ares_getnameinfo

Version 1.7.3 (11 Jun 2010)

Daniel Stenberg (11 Jun 2010)
- changelogs: updated for 1.7.3

- [BogDan Vatra brought this change]

init: allow c-ares to work on Android OS

- changelog: fill in the 1.7.2 changes

- added another pdf to ignore

Yang Tse (11 Jun 2010)
- add ares_parse_mx_reply.c to VS dsp file

Daniel Stenberg (10 Jun 2010)
- tarball: add $(CSOURCES) $(HHEADERS) to EXTRA_DIST

It's not clear to me why we need this, but we apparently may otherwise not get all files bundled in the dist tarball.

- version: start working on 1.7.3
Version 1.7.2 (10 Jun 2010)

Daniel Stenberg (10 Jun 2010)
- RELEASE-NOTES: 1.7.2 details added

- [Jakub Hrozek brought this change]

ares_init: Last, not first instance of domain or search should win

- style: make code less than 80 columns wide

Yang Tse (31 May 2010)
- [Tor Arntsen brought this change]

improve alternative definition of bool to use enum instead of unsigned char

- fix VS2010 compiler warnings

Daniel Stenberg (18 Apr 2010)
- [Jrmy Lal brought this change]

added ares_parse_mx_reply

- repair the file mode

- remove all $Id$ lines

- remove all .cvsignore files

- spell fix

reported by Gregor Jasny on the mailing list

- [Peter Pentchev brought this change]

Fix a couple of typos and grammar nits.

- ignore the GPG signature files too

- start the journey towards 1.7.2

- no longer CVS tagging

- ignore generated PDFs

Version 1.7.1 (23 Mar 2010)

Daniel Stenberg (23 Mar 2010)
- 1.7.1

- made README the primary readme file

... and did README.cares to contain a historic reason etc.

- s/CVS/git

- git now, not CVS

- ignore lots of generated files

- [Daniel Johnson brought this change]

Fix warnings for clang

Yang Tse (17 Mar 2010)
- replaced intel compiler option -no-ansi-alias with -fno-strict-aliasing

- update outdated serial number

- fix compiler warning

- watt32 compilation fix

- Added another VS10 version string

- fix line break

- removed usage of 's6_addr', fixing compilation issue triggered with no longer using 'in6_addr' but only our 'ares_in6_addr' struct

Daniel Stenberg (5 Mar 2010)
- Daniel Johnson provided fixes for building with the clang compiler

Yang Tse (5 Mar 2010)
- Added IPv6 name servers support

Gisle Vanem (5 Mar 2010)
- Ops!. Readded ares_nowarn.h.

- Added ares_nowarn.c.

Yang Tse (28 Feb 2010)
- Added SIZEOF_INT and SIZEOF_SHORT definitions for non-configure systems

- Added ares_nowarn.* to VC6 project file
- Added SIZEOF_INT definition

- fix compiler warning

- fix compiler warning

- fix compiler warning

Daniel Stenberg (17 Feb 2010)
- ares_reinit()

- To allow an app to force a re-read of /etc/resolv.conf etc, pretty much
  like the res_init() resolver function offers

- - Tommie Gannert pointed out a silly bug in ares_process_fd() since it didn't
  check for broken connections like ares_process() did. Based on that, I
  merged the two functions into a single generic one with two front-ends.

Yang Tse (30 Dec 2009)
- VMS specific preprocessor symbol checking adjustments

- Mention last changes

- - Fix configure_socket() to use ares_socket_t instead of int data type.

- - Where run-time error checks enabling compiler option /GZ was used it is now
  replaced with equivalent /RTCsu for Visual Studio 2003 and newer versions.

- Compiler option /GX is now replaced with equivalent /EHsc for all versions.

- - Ingmar Runge noticed that Windows config-win32.h configuration file
  did not include a definition for HAVE_CLOSESOCKET which resulted in
  function close() being inappropriately used to close sockets.

Daniel Stenberg (30 Nov 2009)
- start working on 1.7.1

Version 1.7.0 (27 Nov 2009)

Yang Tse (27 Nov 2009)
- Preserve empty line following last target

- - Larry Lansing fixed ares_parse_srv_reply to properly parse replies
  which might contain non-SRV answers, skipping over potential non-SRV
  ones such as CNAMEs.

- - When using icc, compile with -fpic and link with intel dynamic libraries.
- Added 'currently' in italics to insist on transient situation.

- Fix language

- Daniel wants upcoming release to be 1.7.0

- Mention last changes

- - Removed from external interface preprocessor symbol definition for CARES_HAVE_ARES_FREE_DATA. Current functionality of ares_free_data() makes it unnecessary.

- Added README.msvc

- Changed c-ares naming conventions when using MSVC as described in README.msvc

- - Mention other recent changes

- - Jakub Hrozek renamed addrttl and addr6ttl structs to ares_addrttl and ares_addr6ttl in order to prevent name space pollution, along with necessary changes to code base and man pages. This change does not break ABI, there is no need to recompile existing applications. But existing applications using these structs with the old name will need source code adjustments when recompiled using c-ares 1.6.1.

- - Jakub Hrozek fixed more function prototypes in man pages to sync them with the ones declared in ares.h

- Make configure remove the ares_build.h file included in distribution tarballs.

- Fix macro redefinition.

- Fix name space pollution.

- Allow using different extra import libraries for debug and release builds.

- Add manifest stuff to msvc makefile

- Sync man page with reality

- Add missing external API decoration for ares_set_socket_callback()

- Add ares_free_data() man page.

- - Provide in external interface preprocessor symbol definitions for CARES_HAVE_ARES_FREE_DATA as an indication of function availability.

- Remove typecast
- Fix comment

- Add ares_data.c and ares_data.h

- Jakub Hrozek modified ares_parse_srv_reply() and ares_parse_txt_reply() API to return a linked lists of results. These were also modified to internally use the ares_data memory struct and as such its result must be free'ed with ares_free_data().

- Initial support for the generic ares_free_data() function that will allow applications to free memory allocated and returned by some c-ares funtions.

- Make usage of calloc()'s arguments consistent with rest of code base

- workaround icc 9.1 optimizer issue

- Add icc fvisibility bug test

- Fix icc 9.0 compiler warning: external definition with no prior declaration

- Fix three var names

- Add check for assert.h header file

- getaddrinfo is fully thread safe on solaris versions which implement the function even when h_errno is not a macro.

  The h_errno macro test now only done on systems for which there is no hard coded knowledge about getaddrinfo's thread safeness.

- Remove files generated on previous buildconf/configure run

- Remove enable-thread / disable-thread configure option. These were only placebo options. The library is always built as thread safe as possible on every system.

- Refactor how preprocessor symbol _THREAD_SAFE definition is done.

- Assume that getaddrinfo is thread safe, unless hard coded knowledge says the contrary or h_errno is not defined.

- Related with the threadsafe capability of getaddrinfo:

  - Constantine Sapuntzakis reported that Darwin 6.0 a.k.a. MAC OS X 10.2 and newer have a threadsafe getaddrinfo.

  - Fix Dragonfly BSD triplet detection.
- In case the hard-coded knowledge says that getaddrinfo is threadsafe, an additional check is done to verify that h_errno is also defined. If h_errno isn't defined, we finally assume that it isn't threadsafe. Jamie Lokier provided the inspiration for this extra check.

- AIX 5.2 and newer have threadsafe getaddrinfo.

Add some comments to better understand what the regex's pretend to achieve.

- HP-UX 11.11 and later have threadsafe getaddrinfo

- Check if getaddrinfo is threadsafe when function check allows it to be used

- Renamed fpGetNetworkParams and fpSystemFunction036 to avoid namespace pollution with static library

- Add kernel32.lib

- Mention last changes

- Reinstate copyright symbol lost in previous commit

- Make some strings different in resource file for debug or release builds

- Ignore more subdirs

- Fix compiler warning: conditional expression is constant

- Sync linker and resource compiler options with Makefile.msvc

- Follow Makefile.msvc subdirectory naming scheme, and sync compiler options

- Updated MSVC makefile that allows building dynamic and static c-ares libraries in debug and release flavours.

  Additionally each of the three sample programs is built against each of the four possible c-ares libraries, generating all this a total number of 12 executables and 4 libraries.

- Test for USE_WINSOCK since it is more restrictive than WIN32

- Make header inclusion depend on HAVE_*_H definition

- Remove unneeded preprocessor directives

- Adjust c-ares include paths for memory tracking enabled (--enable-curldebug) builds

- source files used by sample programs
- Renamed c-ares setup.h to ares_setup.h

- Adjust include paths to take in account that currently:

c-ares with --enable-curldebug uses memdebug.h from libcurl's lib subdirectory.

memdebug.h needs access to libcurl's setup.h from libcurl's lib subdirectory
and also needs access to libcurl's generated curl_config.h

- Undo old temporary change once used for testing purposes

- Mention many changes

- Mention --enable-symbol-hiding configure option

- Symbol hiding configure options renamed to the hopefully less ambiguous
   --enable-symbol-hiding and --disable-symbol-hiding as well as related
   macro names and some internal variables used for them.

   Related configuration file preprocessor symbols named to
   CARES_SYMBOL_HIDING and CARES_SYMBOL_SCOPE_EXTERN.

- Header inclusion depending on HAVE_*.symbol.
   Fix two typos.

- Comparison of the Initial revision of this file with ares_parse_a_reply.c
  shows that this one is actually a modified copy of ares_parse_a_reply.c.

  In order to comply with ares_parse_a_reply.c's M.I.T. license, the old
  1998 M.I.T. copyright notice is now also preserved in this file the same
  as it is done in other ares_parse_*.c files.

- Add CVS Id tag.
  Fix indentation of some license lines.

- Add CVS Id tag.

- Fix comment

- In no particular order, changed/ixed all of the following in
  ares_parse_txt_reply() current version:

  - Fixed a couple of potential double free's.

  - Fixed memory leaks upon out of memory condition.

  - Fixed pointer arithmetic.
- Setting ntxtreply to zero upon entry for all failure cases.

- Changed data type to size_t for variables substr_len, str_len and the length member of ares_txt_reply struct.

- Avoided a couple of memcpy() calls.

- Changed i data type to unsigned int to prevent compiler warnings.

- Adjusted a comment.

- Use ARES_SUCCESS literal for successful completion.

- Added CVS Id tag.

- Add c-ares DLL resource file to distribution archive

- Ignore files

- Empty subdir

- Updated MSVC 6.0 workspace and project files that allows building dynamic and static c-ares libraries in debug and release flavours.

Additionally each of the three sample programs is built against each of the four possible c-ares libraries, generating all this a total number of 12 executables and 4 libraries.

Daniel Stenberg (29 Oct 2009)
- no need to check for NULL pointers before dereferencing, as the pointers MUST be valid and they are dereferenced further down in the function unconditionally!

- shorten the descriptions somewhat

- update to the new struct name

- Jakub Hrozek added ares_parse_txt_reply() for TXT parsing

- use 'ares_srv_reply' for proper name-spacing

Yang Tse (29 Oct 2009)
- Add reference for ares_parse_srv_reply.pdf

- Add reference for ares_parse_srv_reply docs

- External API function linkage decoration adjustment
- External API function linkage decoration adjustment

- Initial step towards the ability to reduce c-ares exported symbols based on the 'visibility' attribute for GNUC and __global for Sun compilers, taking also in account __declspec function decoration for Win32 and Symbian DLL's.

Introducing configure options --enable-hidden-symbols and --disable-hidden-symbols following libcurl's naming.

- Fix comment

- Fix spelling

- Fix Pelles C Win32 target compilation issues

- John Engelhart noticed an unreleased problem relative to a duplicate ARES_ECANCELLED error code value and missing error code description.

- Fix compiler warning: local variable may be used without having been initialized

- Use *__CHECK_PATH_SEPARATOR_REQUIRED to ensure that *__CHECK_PATH_SEPARATOR is only expanded and included once in the configure script.

- Our _AS_PATH_SEPARATOR_PREPARE override is now m4_defun'd instead of m4_define'd due to autoconf 2.64 m4.require'ing it in _AS_SHELL_SANITIZE indirectly through _AS_PATH_WALK.

- Fix compiler warning: argument is incompatible with corresponding format string conversion

- Fix potential out-of-bounds read

- Fix compiler warning: loop without body

- Fix compiler warning

- Fix compiler warning

- Fix compiler warning

- Fix compiler warning: addition result could be truncated before cast to bigger sized type

- Overhauled ares__get_hostent()

- Fixing out of bounds memory overwrite triggered with malformed /etc/hosts file.
- Improving parsing of /etc/hosts file.
- Validating requested address family.
- Ensuring that failures always return a NULL pointer.
- Adjusting header inclusions.

- Fix ssize_t redefinition errors on WIN64 reported by Alexey Simak

- more files to ignore

- Check if _REENTRANT definition is required to make errno available as a preprocessor macro.

- Attempt to silence bogus compiler warning: "Potential null pointer dereference"

- ignore more files

Gisle Vanem (7 Sep 2009)
- Suppress warnings about unused prototypes in Watt32 and Win32 programs.

- Update email address.

- Update my email address. Add ares_config.h as dependency for 'make depend'.

Yang Tse (6 Sep 2009)
- T_SRV portability check

Gunter Knauf (5 Sep 2009)
- changed includes to match style how we do with all other *.c files.

- changed u_int16_t to unsigned short because it is the only place within ares and curl where such a type would be used;
  also it broke many autobuilds. We should probably introduce an ares_port_t if we want to use a type here.

Gisle Vanem (5 Sep 2009)
- Replace 'uint16_t' with 'u_int16_t' since the latter is used in ares.h.

- Added 'ares_parse_srv_reply.obj'. Added definition of 'u_int16_t'. This is I don't like; we should not depend on
  such non-universal types in a public header. But this is just a quick fix.

Daniel Stenberg (4 Sep 2009)
- - Jakub Hrozek added ares_parse_srv_reply() for SRV parsing

Steinar H. Gunderson (27 Aug 2009)
- Support lookup of IPv4 literals in ares_gethostbyname(), even when the address family is set to AF_INET6.

Gisle Vanem (3 Aug 2009)
- Remove call to LoadLibrary(). (leftover from debugging).

- Fix bad sentence.

Daniel Stenberg (3 Aug 2009)
- Timo Teras changed the reason code used in the resolve callback done when 
  ares_cancel() is used, to be ARES_ECANCELLED instead of ARES_ETIMEOUT to 
  better allow the callback to know what's happening.

- Joshua Kwan fixed the init routine to fill in the defaults for stuff that 
  fails to get inited by other means. This fixes a case of when the c-ares 
  init fails when internet access is fone.

Gunter Knauf (16 Jul 2009)
- test if adding ../lib to includes can fix the current break ...

- renamed generated config.h to ares_config.h in order to avoid clashes when libcurl is used with other projects 
  which also have a config.h.

Yang Tse (21 Jun 2009)
- Refactor how libraries are checked for connect() function, follow-up.

- Refactor how libraries are checked for connect() function, 
  and check for connect() as it is done for other functions.

Gisle Vanem (20 Jun 2009)
- Remove unneeded defines.

- Use select_s() and not select().

Yang Tse (19 Jun 2009)
- sclose() function-like macro definition used to close a socket, 
  now solely based on HAVE_CLOSESOCKET and HAVE_CLOSESOCKET_CAMEL 
  config file preprocessor definitions.

- add CloseSocket camel case function check

- check for socket() and closesocket() as it is done for other functions

- Remove HAVE_CONFIG_H definition from here, 
  CFLAGS from common.dj already defines it.

- initial step towards decoupling c-ares from libcurl for DOS

- don't ignore these subdirs, they must be removed first

- Remove DEBUGBUILD symbol definition, is not required for programs using the library.

- DEBUGBUILD symbol definition for debug builds

- ignore some subdirs

- fix comment
- Try to make more clear that --enable-curldebug has nothing to do with --enable-debug for this library.

- Revert last change, it is inappropriate.

Gisle Vanem (12 Jun 2009)
- Replace CURLDEBUG with DEBUGBUILD.

Yang Tse (11 Jun 2009)
- when running automake copy missing files instead of symlinking them

- Adjusted to take in account that...

With the curl memory tracking feature decoupled from the debug build feature, CURLDEBUG and DEBUGBUILD preprocessor symbol definitions are used as follows:

CURLDEBUG used for curl debug memory tracking specific code (--enable-curldebug)

DEBUGBUILD used for debug enabled specific code (--enable-debug)

- c-ares' --enable-debug --enable-curldebug decoupling follow-up

- mention last changes

- Remove buildconf.bat from release and daily snapshot archives.

buildconf.bat is only for CVS tree builds.

- Ensure that buildconf.bat does nothing unless it is used with a CVS checkout.

- CVS-INFO file only present in CVS tree, never in release nor daily snapshot archives. Used as a sentinel file in buildconf.bat to differentiate CVS builds.

Gisle Vanem (8 Jun 2009)
- Update comment about "ML". Removed "-D_USE_32BIT_TIME_T" (not a requirement).

Yang Tse (8 Jun 2009)
- just comment it out

- For debugging purposes...

Disable the '-export-symbols-regex' to discard this as the origin of link failures related with shared libraries and non-GNU linkers.

- c-ares Makefile.am back to using $(top_builddir) for *_LDADD

- c-ares' -no-undefined and --enable-curldebug adjustments
- Use relative path to built c-ares tree libtool library

- John E. Malmberg noticed that the configure script was failing to detect the
timeval struct on VMS when building with _XOPEN_SOURCE_EXTENDED undefined due
to definition taking place in socket.h instead of time.h

- Fix compiler warning: out of bound access

- fix compilation on AIX

- c-ares' --enable-curldebug adjustments

- Remove temporarily introduced memory leak.

- Temporarily introduce a memory leak to verify curl debug memory tracking works.

- Allow curl debug memory tracking when building a shared library on
systems which support external, undefined, symbols in shared libraries.

Daniel Stenberg (26 May 2009)
- language fix

Yang Tse (26 May 2009)
- Make ares_init(), ares_dup() and ares_init_options() return ARES_ENOTINITIALIZED
if library initialization has not been performed calling ares_library_init().

- c-ares's --enable-curldebug configure option decoupled from c-ares's --enable-debug

- Prevent copying 'sourced' manpages for build targets that don't use them.

Daniel Stenberg (23 May 2009)
- minor edits

Yang Tse (21 May 2009)
- Include .pdf versions of c-ares man pages in distribution tarball.

- Allow generation of .html and .pdf versions of c-ares man pages.

Gisle Vanem (21 May 2009)
- $(OBJ_DIR)/ares_getopt.o must be cleaned explicitly.

Yang Tse (20 May 2009)
- Mention last changes

- Initial ares_library_cleanup(3) man page

- Update man page
- Update man page

- Initial ares_library_init(3) man page attempt

- Force revision update, to force CVS to update the $Id date string format

- Add same copyright notice as other c-ares files

- Fix case

- Remove run-time requirement for advapi32.dll since c-ares can work even with no advapi32.dll at all.

- Intentionally avoid checking if the address of SystemFunction036, a.k.a. RtlGenRandom, has been located or not. This function is only available on WinXP and later. When unavailable c-ares uses portable rand() function.

- Provide in external interface preprocessor symbol definitions for CARES_HAVE_ARES_LIBRARY_INIT and CARES_HAVE_ARES_LIBRARY_CLEANUP to ease the use of new capabilities.

- Move ares_version() prototype to ares.h

- Introduction of ares_library_init() and ares_library_cleanup()

- remove outdated comment

- Fix preprocessor conditional expression

- Fix *__SOCKLEN_T definitions for remaining targets

- *__SOCKLEN_T definitions for OS400 already fixed

- Fix *__SOCKLEN_T definitions for SYMBIAN32 and VMS targets

Daniel Stenberg (11 May 2009)
- Gregor Jasny made c-ares link with libtool's -export-symbols-regexp option to only expose functions starting with ares_.

Yang Tse (11 May 2009)
- Remove experimental check. Currently there's no need for it.

- Fix an m4 overquoting triggering a spurious 'AS_TR_CPP' symbol definition attempt in generated config.h

- Proper naming for the experimental compiler test and moved to *-compilers.m4
- Moved *_CHECK_COMPILER_HALT_ON_ERROR and *_CHECK_COMPILER_ARRAY_SIZE_NEGATIVE to *-compilers.m4 along with other *_CHECK_COMPILER_*

- fix *__SOCKLEN_T definitions for OS400 and generic GCC targets

- fix *__SOCKLEN_T definitions for MVS and 370 targets

- fix *__SOCKLEN_T definitions for several Windows target tool-chains

- HP-UX's X/Open network library requirement check follow-up

- HP-UX's X/Open network library requirement check follow-up

- Use build-time configured ares_socklen_t instead of socklen_t

- David McCreedy's "TPF-platform specific changes to various files" patch follow-up

Daniel Stenberg (1 May 2009)
- s/libcurl/c-ares

- version number typo fix

Yang Tse (1 May 2009)
- David McCreedy's "TPF-platform specific changes to various files" patch

- Check definition of _XOPEN_SOURCE_EXTENDED with the compiler

- Check if X/Open network library is required

- cope with ares_build.h and ares_rules.h follow-up

- Added some notes regarding ares_build.h

- fix EOL

- fix EOL

- cope with ares_build.h and ares_rules.h

- buildconf.bat for CVS-tree c-ares

- Use 'unsigned int' instead of size_t attempting to avoid header inclusion

- NetWare LibC's getpeername() third argument data type is size_t

- Remove temporary debug tracing for ares_socklen_t Windows targets
- ares_socklen_t follow-up
- ares_build.h Windows follow-up
- Add temporary debug tracing for ares_socklen_t Windows targets
- ares_build.h NetWare follow-up
- ares_build.h NetWare attempt
- Initial step towards a configure time ares_socklen_t definition
- ignore stamp-h*
- Added CARES_INCLUDES_SYS_TYPES
- Initial step towards a configure time curl_socklen_t definition
- avoid use of alloca()
- Moved potential inclusion of system’s malloc.h and memory.h header files to setup_once.h. Inclusion of each header file is based on the definition of NEED_MALLOC_H and NEED_MEMORY_H respectively.
- ignore

Gisle Vanem (18 Apr 2009)
- Added '-DHAVE_LIMITS_H'.

Yang Tse (17 Apr 2009)
- remove compiler options used while debugging the icc 9.1 optimizer issue
- moved HAVE_LIMITS_H to common defines
- Set HP-UX compiler warning level back to the one that exposes the socklen_t issue on this platform.
- HAVE_LIMITS_H definition for NetWare CLIB
- use HAVE_LIMITS_H symbol to protect limits.h inclusion
- fix compiler warning: implicit conversion shortens 64-bit value into a 32-bit value
- s/u_long/unsigned long/
- Do not halt compilation when using VS2008 to build a Windows 2000 target
- ignore
Phil Blundell (3 Feb 2009)
- * February 3 2009 (Phil Blundell)
- If the server returns garbage or nothing at all in response to an AAAA query, go on and ask for A records anyway.

Daniel Stenberg (31 Jan 2009)
- - ares_gethostbyname() now accepts 'AF_UNSPEC' as a family for resolving either AF_INET6 or AF_INET. It works by accepting any of the lookups in the hosts file, and it resolves the AAAA field with a fallback to A.

Gisle Vanem (18 Jan 2009)
- fopen() returns error in 'errno' even on Windows.
So don't use ERRNO (GetLastError()). Trimmed trailing blanks.

- Constified some arguments in local functions.

Daniel Stenberg (14 Jan 2009)
- - ares.h no longer uses the HAVE_STRUCT_IN6_ADDR define check, but instead it now declares the private struct ares_in6_addr for all systems instead of relying on one possibly not present in the system.

Phil Blundell (13 Jan 2009)
- - ares_send_query() now varies the retry timeout pseudo-randomly to avoid packet storms when several queries were started at the same time.

Daniel Stenberg (11 Jan 2009)
- - Phil Blundell added the internal function ares__expand_name_for_response() that is now used by the ares_parse_*_reply() functions instead of the ares_expand_name() simply to easier return ARES_EBADRESP for the cases where the name expansion fails as in responses that really isn't expected.

Gunter Knauf (30 Dec 2008)
- added HAVE_SOCKADDR_IN6_SIN6_SCOPE_ID to ares Makefile.netware and sync'd with other Makefile.netware.

Daniel Stenberg (9 Dec 2008)
- use the new URL
- start over on the 1.6.1 release...

Version 1.6.0 (9 Dec 2008)

Daniel Stenberg (9 Dec 2008)
- add space

Gisle Vanem (9 Dec 2008)
- Fix for Win32 targets using Watt-32.

Dan Fandrich (9 Dec 2008)
- C89 compilers (like Minix' ACK) only need to handle 31 functions arguments so split a long sprintf into two calls to get below that number.

Gisle Vanem (8 Dec 2008)
- Added needed defines for Watt-32 on Windows.

- Undefine 'optarg', 'optind' and 'opterr' when using Watt-32 (to get correct linkage on Windows).

- ares_writev() shall not be exported when using Watt-32 (has writev). Added _USE_32BIT_TIME_T to avoid runtime warning. Applies to VC-2008+ only.

- Removed unneeded defines HAVE_SIGNAL_H, HAVE_SIG_ATOMIC_T, RETSIGTYPE and HAVE_PROCESS_H.

Daniel Stenberg (4 Dec 2008)
- the initial version of the ares_set_socket_callback man page

- Gregor Jasny provided the patch that introduces ares_set_socket_callback(), and I edited it to also get duped by ares_dup().

Dan Fandrich (4 Dec 2008)
- Bring the sys/include.h include test in line with curl's.

Daniel Stenberg (3 Dec 2008)
- Let's not call ares_save_options() deprecated just yet

- Introduce ares_dup(3) and new thoughts about API/ABI and how to move forwards. Also discussed on the ml.

Dan Fandrich (2 Dec 2008)
- Make sure sys/socket.h is included before netinet/in.h (required by OpenWatcom C, and condoned by SUS)

Daniel Stenberg (1 Dec 2008)
- minor indent fix

- Convert the public config struct to the same binary size/construct as in the latest releases to remain ABI compatible.

Gisle Vanem (29 Nov 2008)
- Added '-DHAVE_GETHOSTNAME'.

Dan Fandrich (29 Nov 2008)
- Make sure sys/socket.h is included beforenetinet/in.h (required by OpenWatcom C)

- Netware has gethostname() 

- Fixed a couple of typos

- Don't tweak the HAVE_* macros when using autoconf

- Make use of gethostname() conditional on it being available

- Only set TCP_NODELAY when it exists

Daniel Stenberg (28 Nov 2008)
- updated with changes, preparing for a release soon

Yang Tse (26 Nov 2008)
- Gerald Combs fixed a bug in ares_parse_ptr_reply() which would cause a buffer to shrink instead of expand if a reply contained 8 or more records.

- Brad Spencer provided changes to allow buildconf to work on OS X.

- In preparation for the upcoming IPv6 nameservers patch, the internal ares_addr union is now changed into an internal struct which also holds the address family.

Dan Fandrich (20 Nov 2008)
- Make checking for struct ifreq a prerequisite for setting HAVE_IOCTL_SIOCGIFADDR since it's needed to use SIOCGIFADDR and Watcom C doesn't currently define it.

Daniel Stenberg (20 Nov 2008)
- use unsigned short better instead of mixing with ints to prevent compiler warnings

- please the picky compilers by staying with short as the data we get is short only

- - Brad Spencer brought the new function ares_gethostbyname_file() which simply resolves a host name from the given file, using the regular hosts syntax.

Yang Tse (19 Nov 2008)
- user provided PATH_SEPARATOR always overrides auto-detected one

- attempting to keep lines below 80 chars

- provide a common PATH_SEPARATOR check method which is required by upcoming work to support the broadest range of Autoconf versions
- check for gethostbyaddr and gethostbyname as it is done for other functions

- Make configure script check if ioctl with the SIOCGIFADDR command can be used, and define HAVE_IOCTL_SIOCGIFADDR if appropriate.

- fix leftover from previous commit

- fix inet_pton() runtime configure check

- trim down configure script size

Daniel Stenberg (15 Nov 2008)
- Fixed an OOM condition reported by Jim Meyering

Yang Tse (14 Nov 2008)
- fix typo affecting inclusion of <arpa/inet.h> in configure
  checks for inet_ntoa_r(), inet_ntop() and inet_pton()

- #include <string.h> in the getaddrinfo() runtime check for the memset() prototype

- fix symbol definition check for fcntl.h inclusion

- Refactor configure script detection of functions used to set sockets into non-blocking mode, and decouple function detection from function capability.

Daniel Stenberg (1 Nov 2008)
- Added a TODO file to list things we want changed, added or fixed.

- - Carlo Contavalli added support for the glibc "rotate" option, as documented in man resolv.conf:

  causes round robin selection of nameservers from among those listed. This has the effect of spreading the query load among all listed servers, rather than having all clients try the first listed server first every time.

  You can enable it with ARES_OPT_ROTATE

Yang Tse (1 Nov 2008)
- Adjust WIN32 freeaddrinfo, getaddrinfo and getnameinfo availability

- WIN32 availability of freeaddrinfo, getaddrinfo and getnameinfo functions is quite convoluted, compiler dependant and in some cases even build target dependant.

- check for freeaddrinfo() at configuration phase

- update aclocal file serial number
- remove verification of the freeability of the addrinfo struct pointer members

- fix comment

- make CHECK_FUNC_GETADDRINFO_UNFREEABLE_AI_ADDR
  and CHECK_FUNC_GETADDRINFO_UNFREEABLE_AI_CANONNAME
  internal to CHECK_FUNC_GETADDRINFO

- fix leftover

- Initial attempt to detect at configuration time if the getaddrinfo() function returns an addrinfo with an unfreeable ai_canonname member ptr.

- Initial attempt to detect at configuration time if the getaddrinfo() function returns an addrinfo with an unfreeable ai_addr member ptr.

- icc adjustments:
  
  Select ANSI C89 dialect plus GNU extensions, again.

- some more temporary magic for the icc seg-fault issue

- icc permanent adjustment:
  
  Select precise floating-point model, otherwise doubles are less than 64-bit wide

icc test adjustment:

Select c89 dialect

- icc adjustments:

  Enable more icc warnings.

  Optimization disabling options used only for icc 9.1

- #include <stdlib.h> for exit() prototype

- some more temporary magic for the icc seg-fault issue

- remove from configure.ac temporary magic for the icc seg-fault issue

- some more temporary magic for the icc seg-fault issue

- Charles Hardin patch:

  - handles the EINPROGRESS for UDP connects
    - uses closesocket instead of close on some paths that were noticed
- some more temporary magic for the icc seg-fault issue

- messages initially intended only for debug purposes, now become permanent since these are extremely useful when compiler rejects a set of options.

- fix compiler warning

- fix missing double-quotes

Daniel Stenberg (17 Oct 2008)
- Charles Hardin made adig support a regular numerical dotted IP address for the -s option as well.

Yang Tse (16 Oct 2008)
- some more temporary magic for the icc seg-fault issue

- Ensure that shell variable contents which have active meaning to the shell echo command are not interpreted when trying to remove extra whitespace from shell variable content.

- Adjust Watcom C warnings:
  
  Disable warnings on structure members padding.

- With this change Solaris target builds will now be done with _REENTRANT defined.

- Adjust Tiny C basic options:

  Remove -b from debug-enabled configuration, as Tiny C might have been built without the memory and bounds checker support.

- Adjust GCC warnings:

  Better disable following warnings when cross-compiling with a gcc older than 3.0, to avoid warnings from third party system headers:

  -Wmissing-declarations
  -Wmissing-prototypes
  -Wunused
  -Wshadow

- fix syntax error

- Initial attempt to detect Watcom C compiler

- make naming scheme more consistent across whole file
- Adjust GCC warnings:

Disable following warnings when cross-compiling with a gcc older than 3.0, to avoid warnings from third party system headers:

- Wmissing-prototypes
- Wunused
- Wshadow

- Adjust GCC --enable-warnings:

Do not enable -pedantic when cross-compiling with a gcc older than 3.0, to avoid warnings from third party system headers.

- adjust SGI MIPSpro C detection

- LCC compiler adjustments:

Highest warning level is double -A, next is single -A.
Due to the big number of warnings these trigger on third party header files it is impractical for us to use any of them here. If you want them simply define it in CPPFLAGS.

- remove extra space

- split SGI compiler check. One for MIPS C and another for MIPSpro C

- LCC compiler adjustments:

Warning level reduced from double -A to single -A

- Initial attempt to detect Tiny C compiler

- Initial attempt to detect LCC compiler

- 1) fix bug in CONVERT_INCLUDE_TO_ISYSTEM

2) Disable SGI remark: controlling expression is constant

- simplify SGI C compiler check

- HP C adjustments:

Due to the HP-UX socklen_t issue it is insane to use the +w1 warning level. It generates more than 1100 warnings on socklen_t related statements.

Until the issue is somehow fixed we will just use the +w2 warning level.
- Add debug tracing for COMPILER_WORKS_IFELSE

- configure will also warn on 'strict compiler warning' rejected options

- convert rejected compiler options messages into warnings

- remove extra whitespace from string in SGI C check

- oops

- Initial attempt to detect SGI C compiler

- HP C adjustments:

  Disallow run-time dereferencing of null pointers.

  Disable some remarks:

  #4227: padding struct with n bytes to align member.

  #4255: padding size of struct with n bytes to alignment boundary.

- improve presentation of accepted/rejected debug/optimizer options

- refactoring of COMPILER_BASIC_OPTS

- Initial attempt to detect SUN C compiler

- Initial attempt to detect HP C compiler

- fix compiler warning: 'dot_4' may be used uninitialized in this function

- adjust ICC_windows settings

- fix VAR_STRIP

- Sync up with reality

- Initial attempt to support configure's --(dis|en)able-optimize option to specify dis(activation) of compiler optimizations.

  If option is specified, it will be honored independant of the --(dis|en)able-debug option.

- fix comment

- Initial attempt to support configure's --(dis|en)able-warnings option to specify dis(activation) of picky compiler warnings.
If option is specified, it will be honored independent of the
--(dis|en)able-debug option.

If option is not specified, it will follow --(dis|en)able-debug
setting, whose default is disabled if not specified.

- fix compiler warning: dereferencing type-punned pointer will break strict-aliasing rules

- now compiler warnings are activated for all gcc builds, not only debug ones.

- Use CFLAGS for icc linker options instead of LDFLAGS,
  otherwise gethostbyname() is not detected.

- use ac_cv_compiler and ac_cv_compiler_num to keep compiler ID and version number

- Temporary icc adjustment:
  Disable floating point optimizations

- HAVE_INET_PTON will only be defined when an IPv6 capable working
  inet_pton function is available.

- HAVE_INET_NTOP will only be defined when an IPv6 capable working
  inet_ntop function is available.

- ntoa() and inet_ntoa_r() no longer used

- icc adjustments for icc 9.0 and prior versions:
  Disable remark #279: controlling expression is constant

  Remark triggered mostly on va_arg() and FD_ZERO() macros.

- attempt to make work the gethostname function
  check for winsock build target configurations

Gisle Vanem (21 Sep 2008)
- Added HAVE_NETDB_H, HAVE_ARPA_INET_H, HAVE_STRCASECMP
  and HAVE_STRNCASECMP.

Yang Tse (19 Sep 2008)
- icc adjustments:
  Disable remark #981: operands are evaluated in unspecified order

  Function calls which are triggering this remark, today, do not depend
  on the order of evaluation of its arguments.
Disable remark #1469: "cc" clobber ignored

Remark triggered on htons() and ntohs() due to glibc header files.

- icc adjustments

- fix netdb.h prerequisite inclusion

- improve detection of getservbyport_r()

- On Linux Intel's icc uses gcc's header files, so we select ANSI C89 dialect plus GNU extensions.

- improve detection of gethostname()

- NetWare builds include "nameser.h" from the c-ares subdir

- include <strings.h>

- Sync up with reality

- adjust inclusion of "nameser.h"

- reorder some lines in file

- code cleanup

- NetWare seems to have writev()

- rearrange to allow internal/private use of ares_writev to any system that lacks the writev function.

- NetWare CLIB target has stricmp() and strnicmp()

- include header file only when available

- rearrange to allow internal/private use of ares_strcasecmp to any system that lacks the strcasecmp function.

- improve detection of:
  
  - strcasecmp()
  - strcmpi()
  - stricmp()
  - strncasecmp()
  - strncmpi()
  - strnicmp()
- *** empty log message ***

Gisle Vanem (12 Sep 2008)
- djgpp does have strdup().

Yang Tse (12 Sep 2008)
- change CRLF into LF line endings

- strdup() clone for systems/configurations which lack it

- move inclusion of ares_private.h last

- icc adjustments

- icc adjustments

- Select strict ANSI C89 conformance for icc

- remove unnecessary typecasting of malloc()

- remove unnecessary typecasting of realloc()

Daniel Stenberg (29 Aug 2008)
- we start over working towards 1.5.4

Version 1.5.3 (29 Aug 2008)

Daniel Stenberg (29 Aug 2008)
- Version 1.5.3

- added the three people from RELEASE-NOTES and sorted the list alphabetically

Yang Tse (27 Aug 2008)
- Don't abort configuration if recvfrom() is not available.

- Functionality only possible if recvfrom() is available.

- George Neill's fix acountry sample application compilation failure.

- Brad House's validation that DNS response address matches the request address

- fix the output name

- Get rid of ENABLE_64BIT symbol definition and usage.

Improve HAVE_LONGLONG symbol description.

- Export 'ares_process_fd' too.
Gisle Vanem (16 Aug 2008)
- Ops, remove 'use_vc'.

- Support Watt-32 under Win32.

Yang Tse (10 Aug 2008)
- Fix: Remove now this SIZEOF_CURL_OFF_T symbol definition.

This should have been done with the initial 64-bit curl_off_t patch.

- Improve CURL_CHECK_DEF

- Fix IBM C and DEC/Compaq C compiler detection

- Initial support of curlbuild.h and curlrules.h which allows
  to have a curl_off_t data type no longer gated to off_t.

- The minimum autoconf version required for this file is 2.50

Avoid dot notation in aclocal serial file number, use a single number now.

Daniel Stenberg (4 Aug 2008)
- - Fix by Tofu Linden:

  The symptom:
  * Users (usually, but not always) on 2-Wire routers and the Comcast service
    and a wired connection to their router would find that the second and
    subsequent DNS lookups from fresh processes using c-ares to resolve the same
    address would cause the process to never see a reply (it keeps polling for
    around 1m15s before giving up).

  The repro:
  * On such a machine (and yeah, it took us a lot of QA to find the systems
    that reproduce such a specific problem!), do 'ahost www.secondlife.com',
    then do it again. The first process's lookup will work, subsequent lookups
    will time-out and fail.

  The cause:
  * init_id_key() was calling randomize_key() *before* it initialized
    key->state, meaning that the randomness generated by randomize_key() is
    immediately overwritten with deterministic values. (/dev/urandom was also
    being read incorrectly in the c-ares version we were using, but this was
    fixed in a later version.)
  * This makes the stream of generated query-IDs from any new c-ares process
    be an identical and predictable sequence of IDs.
  * This makes the 2-Wire's default built-in DNS server detect these queries
    as probable-duplicates and (erroneously) not respond at all.
Yang Tse (4 Aug 2008)

- Autoconf 2.62 has changed the behaviour of the AC_AIX macro which we use. Prior versions of autoconf defined _ALL_SOURCE if _AIX was defined. But, autoconf 2.62 version of AC_AIX defines _ALL_SOURCE along with other four preprocessor symbols no matter if the system is AIX or not. To keep the traditional behaviour, as well as an uniform one, across autoconf versions AC_AIX is replaced with our own internal macro.

- Adjust DEC/Compaq C compiler settings.

- Another AC_TRY_LINK conversion to AC_LINK_IFELSE. Proper definition of HAVE_function if function is found deeper.

- Sync up with reality

- Rename reentrant.m4 to avoid filename clash.

- Add file version serial number that might be used by 'aclocal’ and others.

Keep the '#' character as the first one on the line.

- Update copyright year.

- Sync comment with reality.

- Reinstate the 'aclocal -I m4' in buildconf and 'ACLOCAL_AMFLAGS = -I m4' way of including our local m4/reentrant.m4 file. This even takes care of including the file in the distribution tarball.

- Add quoting for the AC_DEFINE arguments.

- Also remove the whitespace.

- Also remove the extra quoting.

- Replace some '@%:@@' quadigraphs by its actual representation '#'.

This quadigraph used before a C preprocessor 'define' directive could be fooling M4, when processing this file, and make it think that the line contains a pure M4 'define' macro.

- Tests done using 'aclocal -I m4' in buildconf and 'ACLOCAL_AMFLAGS = -I m4 in top Makefile.am triggered a problem that prevented aclocal from running successfully on SunOS 5.10 with GNU m4 1.4.5 and GNU Autoconf 2.61

A tarball which reproduces mentioned problem is the one dated July-28-2008
http://cool.haxx.se/curl-daily/curl-7.19.0-20080728.tar.gz
We actually don't need all the bells and whistles that the above mechanism provides. We only need to include our m4/reentrant.m4 file in acinclude.m4 so here we go with this simpler mechanism.

- for debugging purposes show ACLOCAL_FLAGS

- These lines were unintentionally removed in previous commit

- Partially undo change that prevented SED, GREP, EGREP and AR from being changed by libtool or autoconf.

- Assert that SED and GREP are set

- Require autoconf 2.57 or newer

- When calling aclocal, user defined ACLOCAL_FLAGS will now precede ours.

- move ACLOCAL_AMFLAGS after AUTOMAKE_OPTIONS

- setup.h handles definition of _REENTRANT based on NEED_REENTRANT definition which might be defined in config.h or config-*.h files

- Remove explicit inclusion of our m4 files first. It was interesting as a test, but it breaks aclocal execution on some systems, with the following error:

Can't locate object method "rel2abs" via package "File::Spec" at /usr/local/bin/aclocal line 256.

- Another step towards detecting if _REENTRANT is already defined or actually needed, and being able to define it if appropriate for further configure tests as well as for the generated config file.

- Explicitly include our m4 files first. This might minimize the impact that other package's underquoted m4 function definitions have on ours.

- Add a 3 argument check for getprotobynumber_r

- move reentrant.m4 to the m4 subdirectory to avoid infinite loop inclusion problem

- add checks for strtok_r and getprotobynumber_r

- Another step towards detecting if _REENTRANT is already defined or actually needed, and being able to define it if appropriate for further configure tests as well as for the generated config file.

Introduced reentrant.m4 intended for our reentrant related autotools/m4 macros.

- reorder argument number detection for getservbyport_r to actually verify if the test is properly working
- Make sure that configure process tests are done with the same _REENTRANT setting as the one actually used when finally building the library.

- Change recvfrom's sixth argument data type to the 'historically standard' 'int' data type for systems where this sixth argument is prototyped as a void pointer.

Start of thread: http://curl.haxx.se/mail/lib-2008-07/0153.html

- use prototypes to improve getservbyport_r detection

- Adjust recvfrom's sixth arg data type definition for NetWare (LIBC)

- Use the sreadfrom() wrapper to replace recvfrom() in our code.

- when recvfrom prototype uses a void pointer for arguments 2, 5 or 6 this will now cause the definition of RECVFROM_TYPE_ARG2_IS_VOID, RECVFROM_TYPE_ARG5_IS_VOID or RECVFROM_TYPE_ARG6_IS_VOID, as appropriate.

- Adjust DEC/Compaq C compiler settings

- Added "pointer to void" as another data type to check for the sixth argument of function recvfrom as a result of the info additionally logged when running on a Solaris system.

The compiler error showed that the prototype being used on Solaris was the one declared in line 427 of "/usr/include/sys/socket.h" as:

    function(int, 
              pointer to void, 
              unsigned int, 
              int, 
              pointer to struct sockaddr, 
              pointer to void) returning int

- Adjust DEC/Compaq C compiler settings

- RECVFROM_TYPE_ARG2, RECVFROM_TYPE_ARG5 and RECVFROM_TYPE_ARG6 are now defined to the data type pointed by its respective argument and not the pointer type.

- Configure process now checks availability of recvfrom() socket function and finds out its return type and the types of its arguments. Added definitions for non-configure systems config files, and introduced macro sreadfrom which will be used on udp sockets as a recvfrom() wrapper.

- Initial DEC/Compaq C compiler detection and flags

- Improved configure detection of number of arguments for getservbyport_r
- Allow --enable-largefile and --disable-largefile configurations. Configure process no longer needs nor checks size of curl_off_t. Library will now be built with _REENTRANT symbol defined.

- fix compiler warning

- since Jun 30 2008 MAXHOSTNAMELEN define is no longer used

- fix c-ares version reported in generated libcares.pc file when building from CVS tree.

- egrep and ar are also mandatory

Daniel Stenberg (3 Jul 2008)
- just to clarify that c-ares actually have some ipv6 support

- ares_gethostbyname() fallback from AAA to A records with CNAME present

- Phil Blundell: If you ask ares_gethostbyname() to do an AF_INET6 lookup and the target host has only A records, it automatically falls back to an AF_INET lookup and gives you the A results. However, if the target host has a CNAME record, this behaviour is defeated since the original query does return some data even though ares_parse_aaa_reply() doesn't consider it relevant. Here's a small patch to make it behave the same with and without the CNAME.

Yang Tse (2 Jul 2008)
- The configure process will now halt when sed or grep are unavailable

- fallback to gettimeofday when monotonic clock is unavailable at run-time

- IBM C/C++ compiler predefined macro check

- set earlier in configure process IBM compilers optimization flags

- make check message wording more precise

Daniel Stenberg (30 Jun 2008)
- As was pointed out to me by Andreas Schuldei, the MAXHOSTNAMELEN define is not posix or anything and thus c-ares failed to build on hurd (and possibly elsewhere). The define was also somewhat artificially used in the windows port. Now, I instead rewrote the use of gethostbyname to enlarge the host name buffer in case of need and totally avoid the use of the MAXHOSTNAMELEN define. I thus also removed the defien from the namser.h file where it was once added for the windows build.

I also fixed init_by_defaults() function to not leak memory in case if
Yang Tse (29 Jun 2008)
- fix C style comment

- John Lightsey filed bug report #1999181: "CLOCK_MONOTONIC always fails on some systems" (http://curl.haxx.se/bug/view.cgi?id=1999181). The problem was that the configure script did not use the _POSIX_MONOTONIC_CLOCK feature test macro when checking monotonic clock availability. This is now fixed and the monotonic clock will not be used unless the feature test macro is defined with a value greater than zero indicating always supported.

- Modified configuration script to actually verify if the compiler is good enough at detecting compilation errors or at least it has been properly configured to do so. Configuration heavily depends on this capability, so if this compiler sanity check fails the configuration process will now fail.

- No longer break out of a shell "for" statement from inside AC_FOO_IFELSE macros, otherwise temp files are not removed.

Indentation adjustment.

Gunter Knauf (11 Jun 2008)
- enable additional CFLAGS from commandline.

Yang Tse (9 Jun 2008)
- fix pkg-config reporting of private libraries needed for static linking

- MSVC does build Windows native targets

- Brad House fixed a missing header file inclusion in adig sample program

Daniel Stenberg (29 May 2008)
- start working on 1.5.3

Version 1.5.2 (29 May 2008)

Daniel Stenberg (29 May 2008)
- 1.5.2

Yang Tse (26 May 2008)
- fix compiler warning: unreferenced formal parameter

Daniel Stenberg (23 May 2008)
- list all local sources the (demo) tools need, add a few missing scripts to the dist tarball and remove a two duplicate file names from EXTRA_DIST (most of it pointed out by Yang Tse)
- this is not used (anymore)

- make sure the configure.ac file with the correct version number is shipped in the tarball

Yang Tse (22 May 2008)
- MSVC6+ clean-up targets must also remove acountry.exe

- sync with reality

- fix: [action-if-found] part of AC_CHECK_TYPE macro cannot be quoted when empty

- fix: remove need and definition of HAVE_SOCKLEN_T symbol

- fix: socklen_t definition comment

- update several macros using AC_TRY_LINK with AC_LINK_IFELSE

- fix underquoting of AC_LANG_PROGRAM arguments

- if'def out private function ares__tvdiff(), it is not in use yet.

- update several macros using AC_TRY_LINK with AC_LINK_IFELSE

- fix socklen_t equivalent detection when cross compiling Windows target

- if WINSOCK2 API is used link with 'ws2_32', else

  if WINSOCK API is used under WinCE link with 'winsock', else

  if WINSOCK API is used link with 'wsock32'.

- on winsock systems linking is done using library 'ws2_32' when winsock2.h is available, and library 'winsock' is used when only winsock.h is available.

- minor change for wince-cegcc and wince-mingw32ce support

- millisecond resolution support followup

Gisle Vanem (15 May 2008)
- Replaced "-DHAVE_FIONBIO" with "-DHAVE_IOCTLSOCKET".
  Added "-DHAVE_GETTIMEOFDAY". Trimmed lines.

Yang Tse (15 May 2008)
- sync with reality

- remove compilation time generated files
- use same time source for timeout initialization and processing

- Improve toolchain detection for WinCE cross compilation:

When cross compiling WinCE with the arm-wince-cegcc-gcc C compiler symbol __CEGCC__ is defined and the unix-like compatibility layer is used. For our purposes this is not a native Windows build.

When cross compiling WinCE with the arm-wince-mingw32ce-gcc C compiler symbol __MINGW32CE__ is defined and the unix-like compatibility layer is not used. For our purposes this _is_ a native Windows build.

- skip checks for Windows specific header files when build target is not a native Windows one

- WinCE cross compilation adjustments:

HAVE_WINSOCK2_H shall not be defined. HAVE_WS2TCPIP_H shall not be defined.

Daniel Stenberg (13 May 2008)
- - Introducing millisecond resolution support for the timeout option. See ares_init_options()'s ARES_OPT_TIMEOUTMS.

Yang Tse (13 May 2008)
- also ignore this
- also ignore this

- ignore this compilation time generated files

- don't keep in CVS this compilation time generated file

- add MSVC6 project for acountry sample program

- update MSVC6 projects to use the multithreaded DLL runtime library

- add MSVC6 project for acountry sample program

- skip libtool C++ preprocessor compiler and linker checks

- ignore libcares.pc

- configure script will now define HAVE_CLOCK_gettime_MONOTONIC symbol only when function clock_gettime() is available and the monotonic timer is also available. Otherwise, in some cases, librt or libposix4 could be used for linking even when finally not using the clock_gettime() function due
to lack of the monotonic clock.

- fix syntax error: missing semicolon

- Add library checking for clock_gettime() support

- Use monotonic time source if available.

Daniel Stenberg (9 May 2008)
- Removed AC_PROG_CC_STDC again. It enforces C99/gnu99 standard which is too liberal for me. Also, autoconf 2.61 and earlier doesn't work with icc 10.1 for this macro. (2.62 confirmed to work though). See discussion on the mailing list starting here:

http://daniel.haxx.se/projects/c-ares/mail/c-ares-archive-2008-05/0001.shtml

- include strings.h (if available) for the strcasecmp() proto

- check for strings.h in configure and use it for the strcasecmp() proto

- adjusted to work with the updated configure.ac

- - Sebastian made c-ares able to return all PTR-records when doing reverse lookups. It is not common practice to have multiple PTR-Records for a single IP, but its perfectly legal and some sites have those.

- - Doug Goldstein provided a configure patch: updates autoconf 2.13 usage to autoconf 2.57 usage (which is the version you have specified as the minimum version). It's a minor change but it does clean up some warnings with newer autoconf (specifically 2.62).

Yang Tse (5 May 2008)
- Improved parsing of resolver configuration files

- make previous compiler warning fix more portable

- fix compiler warning: indirection to slightly different base types

- fix compiler warning: local variable may be used without having been initialized

- fix compiler warning: unreferenced formal parameter

- fix compiler warning: assignment within conditional expression

Daniel Stenberg (4 Apr 2008)
- - Alexey Simak fixed the VC dsp file by adding the missing source file
  
  ares_expand_string.c
- Alexey Simak made adig support NAPTR records

- Eino Tuominen improved the code when a file is used to seed the randomizer

Yang Tse (29 Feb 2008)
- Force AIX xlc to fail and not generate object code if the source code has compiled with errors. This behaviour is needed for autoconf macros which rely on the ability to compile with or without errors, and is safer than xlc's default of failing only upon severe errors.

Gunter Knauf (27 Feb 2008)
- added get_ver.awk since c-ares is a standalone project, and should therefore also compile when cURL is absent.

- a couple of small fixes to the makefile:
  fixed comments; fixed INSTDIR define, simplified rules;
  changed to use get_ver.awk in current dir rather than the curl one.

- fixed linker def file for tools when compiled with gcc/nlmsconv.

- added some files which were missing in release tarballs.

- updated copyright for new year.

Gisle Vanem (2 Jan 2008)
- Added `-d' option for Watt-32 debugging.

Yang Tse (18 Dec 2007)
- MSVC 9.0 (VS2008) does not support Windows build targets prior to WinXP, and makes wrong assumptions of build target when it isn't specified. So, if no build target has been defined we will target WinXP when building with MSVC 9.0 (VS2008).

Daniel Stenberg (11 Dec 2007)
- build acountry too

Gisle Vanem (11 Dec 2007)
- Added acountry.c.

- Added build of acountry.nlm.

- Added build of acountry.exe.

- Build acountry.exe. Added 'socklen_t' define.

- Another sample application that returns country-code and name from an IPv4-address or host-name. Using the service of countries.nerd.dk.
Daniel Stenberg (10 Dec 2007)
- grrr, the previous commit was meant to properly make sure that we don't link any executables when doing debug builds since they kind of assume symbols provided by libcurl, but it also wrongly included acountry.c

- when building

- build ahost and adig by default but don't install them

Gisle Vanem (10 Dec 2007)
- Fix for targets that do have 'struct in6_addr', but which doesn't define 's6_addr' as a macro.

Yang Tse (3 Dec 2007)
- Fix three issues previous cleanup introduces.

Daniel Stenberg (3 Dec 2007)
- Erik Kline cleaned up ares_gethostbyaddr.c:next_lookup() somewhat

- Brad Spencer fixed the configure script to assume that there's no /dev/urandom when built cross-compiled as then the script cannot check for it.

- the gethostbyname fix applied here as well

- fix next_lookup() to continue searching even if c-ares failed to load the /etc/hosts file, pointed out by Erik Kline: http://daniel.haxx.se/projects/c-ares/mail/c-ares-archive-2007-11/0027.shtml

- Remove the check for libdl since that isn't actually used and it causes warnings. Pointed out by Robin Cornelius.

- pkgconfig fix by Andreas Schuldei

- spellfix

- and we start on 1.5.2!

Version 1.5.1 (21 Nov 2007)

Daniel Stenberg (21 Nov 2007)
- change

- oops

- start working on 1.5.1 now

Version 1.5.0 (21 Nov 2007)
Daniel Stenberg (21 Nov 2007)
- this is what 1.5.0 is
- fill in missing copyrights

Gunter Knauf (18 Nov 2007)
- removed now obsolete defines;
  updated external library versions to latest.

Steinar H. Gunderson (16 Nov 2007)
- Fix a double free.

Yang Tse (15 Nov 2007)
- Needed now that in6_addr is referenced in ares.h

Steinar H. Gunderson (15 Nov 2007)
- When looking up in DNS and then in the hosts file, return the error code from DNS if both fail, instead of returning the error code from the hosts file, as today. Patch from the Google tree.

- Return TTL data from ares_parse_{a,aaaa}_reply, if the user is so inclined. Patch from the Google tree.

Yang Tse (8 Nov 2007)
- Define WIN32 when build target is Win32 API.
  This also defines it for WinCE even though it is a subset of WIN32.

- The only libraries actually needed for sample programs adig and ahost are ws2_32.lib and advapi32.lib

- MSVC versions prior to VS2005 do not complain about portable C functions

- Windows build targets have socklen_t definition in ws2tcpip.h but some versions of ws2tcpip.h do not have the definition. It seems that when the socklen_t definition is missing from ws2tcpip.h the definition for INET_ADDRSTRLEN is also missing, and that when one definition is present the other one also is available.

Gunter Knauf (22 Oct 2007)
- removed dependency on gettimeofday() since we use only 1 sec resolution here.

Yang Tse (20 Oct 2007)
- Fix compiler warning: conversion from "int" to "unsigned short" may lose significant bits

- Fix message shown when detecting icc version

- Avoid shadowing a global declaration

- Renamed a variable to avoid shadowing a global declaration
- Renamed internal function to avoid a variable shadowing it

- Fix compiler warning: feupdateenv is not implemented and will always fail. Specifically for linux x86-64 with Intel's icc.

- Sync PLATFORM_AIX_V3 detection and CURL_CC_DEBUG_OPTS()
icc warning level with libcurl's

- Fix compiler warning: conversion from "int" to "unsigned char"
may lose significant bits

- actually sync with lib/setup_once.h

- sync with lib/setup_once.h

Steinar H. Gunderson (16 Oct 2007)
- Fix a bug where fallback from AF_INET6 to AF_INET would not work properly together with relative search; if you had a search path of .a.com and .b.com, and foo.a.com would return ARES_ENODATA and foo.b.com would return ARES_ENOTFOUND, the lookup would not properly retry with AF_INET as it forgot the first ARES_ENODATA.

Dan Fandrich (15 Oct 2007)
- Mention first version with CURLOPT_COPYPOSTFIELDS.
Don't confuse NUL with NULL.

Gisle Vanem (8 Oct 2007)
- Added needed 'HAVE_*' defines.

- 'FD_CLOEXEC' is meaningless on MSDOS/Watt-32.

Steinar H. Gunderson (4 Oct 2007)
- Removed a piece of redundant code (process_answer already takes care of it).

- Another timeout fix in ares_getnameinfo().

- Send the timeout count in ares_getnameinfo().

- Moved the NULL check for channel upwards in ares_destroy().

- Clarified the comment over ares_cancel.

Yang Tse (2 Oct 2007)
- Avoid a segfault when generating a DNS "Transaction ID" in internal function init_id_key() under low memory conditions.

- Add ares_llist.c and ares_llist.h to MSCV project file.
Daniel Stenberg (2 Oct 2007)
- Fixed the problem where next_lookup would use 'status' uninitialized. Now it gets passed the initial value as an argument.

Yang Tse (2 Oct 2007)
- Avoid inline C99ism, and move c-ares routines for managing doubly-linked lists.

Daniel Stenberg (1 Oct 2007)
- ares_strerror() segfaulted if the input error number was out of the currently supported range.
- Prevent ares_strerror() from segfaulting if an invalid error code is passed in as argument!

Yang Tse (30 Sep 2007)
- Fix compiler warning
- check availability of <netinet/tcp.h>
- improve portability, defining MAXDNAME and MAXCDNAME

Steinar H. Gunderson (30 Sep 2007)
- Fix a memory leak that I recently inadvertedly introduced.
- Use ISDIGIT instead of isdigit; fixes a gcc warning.
- Port the TCP socket fix made in ares_fds() to ares_getsock() as well.
- Previously, processing a large batch of timeouts was O(n^2) in the number of outstanding queries, and processing a DNS response packet was O(n) in the number of outstanding queries. To speed things up in Google, we added a few circular, doubly-linked lists of queries that are hash-bucketed based on the attributes we care about, so most important operations are now O(1).

It might be that the number of buckets are higher than most people would need, but on a quick calculation it should only be 100kB or so even on a 64-bit system, so I've let it stay as-is.

Gisle Vanem (29 Sep 2007)
- We should standarise on C comments.
- Fix compiler warning in setsockopt().

Steinar H. Gunderson (29 Sep 2007)
- TCP queries can time out too, not just UDP queries. (Patch from the Google tree.)
- Read and process as many packets as possible in read_udp_packets, to avoid having to run the entire event loop once per packet. (Patch from the Google tree.)
- There are two different places in write_tcp_data() that advance the send_queue; however, they are slightly different and only the first one properly uses a while loop. Consolidate both into a single function that DTTR. (Patch from the Google tree.)

- Reject names that are longer than 255 characters, to avoid problems with strict or buggy DNS server implementations. (Patch from the Google tree)

- In ares_mkquery, make sure we set buflen and buf to reasonable values if there's an error. (Patch from the Google tree)

- Be stricter about what's a valid IP address in fake_hostent. (Patch from the Google tree.)

- Handle the root of the DNS tree correctly in ares_expand_name.

Daniel Stenberg (28 Sep 2007)
- today's modifications by Steinar and me

- Bumped version to 1.5.0 for next release and soname bumped to 2 due to ABI and API changes in the progress callback (and possibly more coming up from Steinar)

Steinar H. Gunderson (28 Sep 2007)
- Unrevert previous 'missing' hunks. They were missing since the patch is still in for review :-)

- Yet more missing hunks... Nggh.

- Always register for TCP events even if there are no outstanding queries, as the other side could always close the connection, which is a valid event which should be responded to.

- Forgot to include a few hunks from ares_process.c earlier. Fixing now.

- Support a few more socket options, and refactor the option setting a bit. (Patch from the Google tree.)

- Make the query callbacks return the number of timeouts that happened during the execution of a query, and update documentation accordingly. (Patch from the Google tree.)

- Three fixes in one commit (sorry): a) Take care of the tcpbuf if it ends while queued for transmission, note broken servers and close them in the main loop, and store TCP socket generation number in order not to send the same query twice over the same socket.

- Don't skip a server if it's the only one. (Bugfix from the Google tree.)

Daniel Stenberg (27 Sep 2007)
- wrong, revert the previous "fix" and instead check that the fd_set pointer is non-NULL before we FD_CLR

- eek, fix the conditions to return on either problem instead of requiring
both to occur

- Steinar H. Gunderson fixed: Correctly clear sockets from the fd_set on in several functions (write_tcp_data, read_tcp_data, read_udp_packets) so that if it fails and the socket is closed the following code doesn't try to use the file descriptor.

- Steinar H. Gunderson modified c-ares to now also do to DNS retries even when TCP is used since there are several edge cases where it still makes sense.

- Brad House provided a fix for ares_save_options(): Apparently I overlooked something with the ares_save_options() where it would try to do a malloc(0) when no options of that type needed to be saved. On most platforms, this was fine because malloc(0) doesn't actually return NULL, but on AIX it does, so ares_save_options would return ARES_ENOMEM.

- added initial pkg-config file (attempt)

Gunter Knauf (20 Jul 2007)
- added curl include for debug builds.

Daniel Stenberg (14 Jul 2007)
- added another SEE ALSO

- Brad House's fix to his a win32 compiler warning

- added Vlad's entire description of his valgrind fix

- Vlad Dinulescu fixed two outstanding valgrind reports

Gunter Knauf (8 Jul 2007)
- added better CodeWarrior detection.

- removed some obsolete include paths and defines.

- add test for gettimeofday() so that HAVE_GETTIMEOFDAY gets defined.

- although the check for HAVE_STRUCT_TIMEVAL solved the redefine it is incorrect; lets see if a check for HAVE_GETTIMEOFDAY also works; if gettimeofday() is present then we can assume we have the timezone struct too.

- added check for sys/param.h.

- trial to catch problem with Daniels cross-mingw ares builds.

- added NetWare CLIB-own header to solve gcc warnings.

- few minor changes to make ares compile for NetWare CLIB architecture.
- changed to build for CLIB / LIBC.

- sync'd with lib makefile changes: use var for awk; fixed RECV* / SEND* defines; debug var can be overwritten; added better compiler path handling.

Daniel Stenberg (8 Jun 2007)
- start working on 1.4.1

Version 1.4.0 (8 Jun 2007)

Daniel Stenberg (8 Jun 2007)
- 1.4.0 preps

- the revert

- Revered Ashish Sharma's multiple entries patch, as it caused memory madness

- minor edit since getting an ID seems pointless when failure happens

- fix the bad bad bad mess this caused on name resolves returning more than one name... Reported by James Bursa

- Brad Spencer found and fixed three flaws in the code, found with the new gcc 4.2.0 warning: -Waddress

- Brad House fixed VS2005 compiler warnings due to time_t being 64bit. He also made recent Microsoft compilers use _strdup() instead of strdup().

- Ashish Sharma provided a patch for supporting multiple entries in the /etc/hosts file. Patch edited for coding style and functionality by me (Daniel).

- ares_destroy_options() and ares_save_options() man pages by Brad House

- make next version 1.4.0

- first take at detecting a random device and seeding the random key using data from it in randomize_key()

- Shmulik Regev brought cryptographically secure transaction IDs

- Brad House added ares_save_options() and ares_destroy_options() that can be used to keep options for later re-usal when ares_init_options() is used.

- added ares_process_fd() to allow applications to ask for processing on specific sockets and thus avoiding select() and associated functions/macros. This function will be used by upcoming libcurl releases for this very
reason. It also made me export the ares_socket_t type in the public ares.h header file, since ares_process_fd() uses that type for two of the arguments.

- Ravi Pratap fixed a flaw in the init_by_resolv_conf() function for windows that could cause it to return a bad return code.

Yang Tse (25 Apr 2007)
- Steve Little's fixes to allow compilation on VMS 64-bit mode

Gunter Knauf (21 Apr 2007)
- fixed ARFLAGS for CodeWarrior build.

- added ranlib when library is created with ar.

Gisle Vanem (16 Apr 2007)
- No need for USE_MANUAL. Use select_s() instead of select().
  Added ares_getopt.o to program sample objects.

Yang Tse (16 Apr 2007)
- move linkage var declarations to ares_getopt.h

Gunter Knauf (16 Apr 2007)
- use Makefile.inc to determine sources.

- ares_getopt() command-line parser function does not belong to actual c-ares library. It is just a convinience source code helper function for use in example programs adig.c and ahost.c

Yang Tse (16 Apr 2007)
- ares_getopt() command-line parser function does not belong to actual c-ares library. It is just a convinience source code helper function for use in example programs adig.c and ahost.c

- update MSVC project files with ares_getopt()

- use ares_getopt for all platforms

- add ares_getopt prototype

- Rename function as ares_getopt()

- Replace tabs with spaces

- Add file ares_getopt.c
Original file name getopt.c  Initial import into the c-ares source tree on 2007-04-11. Lifted from version 5.2 of the ‘Open Mash’ project with the modified BSD license, BSD license without the advertising clause.

- convenience SIG_ATOMIC_T macro definition

- move WinSock definitions of EBADF, EINTR, EINVAL and EAFNOSUPPORT to setup_once.h

- update copyright year

- Cleanup. Warnings related with FD_SET, FD_ISSET, and FD_ZERO macros are not icc 9.0 specific.

Gunter Knauf (27 Mar 2007)
- added variadic macro stuff.

- added CVS Id tag.

- fixed build to use compiler-default lib extension.

Yang Tse (22 Mar 2007)
- attempt to keep message length below 80 chars

Gisle Vanem (17 Mar 2007)
- Added a hack to work around the circular dependency when CURL_DEBUG is defined.

Yang Tse (15 Mar 2007)
- show better description for AMD64-linux static libraries PIC check

- remove code superceeded by the new method used to force libtool to skip C++ and Fortran checks in patchset: http://cool.haxx.se/cvs/cgi/curl/ares/configure.ac.diff?r1=1.60&r2=1.64

- fix test leftover in previous commit

- force libtool to build static libraries with PIC on AMD64

- Autoconf redefines the M4 builtin macro 'm4_undefine' in such a way that it fails if the macro that is being undefined is not already defined. To make this work under all cases and be sure that at a certain point some specific macro isn't defined we must use the following style in configure:

m4_ifdef([macro], [m4_undefine([macro])])

Dan Fandrich (6 Mar 2007)
- Autoconf 2.57 didn't like these m4_undefine for some reason (probably a bug). Luckily, they weren't needed.
Yang Tse (6 Mar 2007)
- skip libtool C++ and Fortran linker checks

- skip libtool C++ and Fortran checks

Gisle Vanem (27 Feb 2007)
- Added TOPDIR variable. Put dependencies in external file. Added -DHAVE_STRUCT_TIMEVAL to CFLAGS.

- Removed inclusion of <sys/types.h> in .c-files since it's already included through "setup.h".

Yang Tse (22 Feb 2007)
- include <sys/types.h> when checking availability of the bool type

- Check for stdbool.h at configuration stage, and include it if available.

Check for lowercase 'bool' type at configuration stage. If not available provide a suitable replacement with a type definition of 'unsigned char' in setup_once.h

Move definitions of TRUE and FALSE to setup_once.h

- curlassert macro replaced with DEBUGASSERT macro defined in setup_once.h

Gisle Vanem (21 Feb 2007)
- Cleanup WIN32 target using WSACleanup().

Yang Tse (20 Feb 2007)
- Move header file inclusion logic and definition of timeval struct for platforms that don't have it to setup_once.h

Gisle Vanem (19 Feb 2007)
- Added ares_parse_ns_reply.obj etc.

- INADDR_NONE no longer used.

- Fixed typo.

Daniel Stenberg (19 Feb 2007)
- Vlad Dinulescu added ares_parse_ns_reply()

Yang Tse (19 Feb 2007)
- compiler warning fix

- add debug messages for initialization failures
- fix ENAMETOOLONG and ENOTEMPTY may already be defined in errno.h

- Move portable error number symbolic name definitions to setup_once.h

- compiler warning fix

- compiler warning fix

- add debug messages for fopen() failures

- use macros ERRNO, SET_ERRNO(), SOCKERRNO and SET_SOCKETERRNO() for errno handling

- compiler warning fix

- introduce uppercase macros SOCKERRNO, SET_SOCKETERRNO(), ERRNO and SET_ERRNO() making them available to any source code file which includes "setup.h".

  Macro SOCKERRNO / SET_SOCKETERRNO() returns / sets the *socket-related* errno (or equivalent) on this platform to hide platform details to code using it.

  Macro ERRNO / SET_ERRNO() returns / sets the NOT *socket-related* errno (or equivalent) on this platform to hide platform details to code using it.

- icc 9.0 when compiling its generated code for its own FD_SET, FD_ISSET, and FD_ZERO macros emits warnings #1469 and #593.
  So for icc 9.0 we also ignore warnings #1469 and #593.
  * 593 warns on "variable __d0 was set but never used"
  * 1469 warns on "cc clobber ignored"

- compiler warning fix

- Oops, missing argument separator comma

- in debug messages also show error description

- avoid using function isblank() and just use our ISBLANK macro to provide this functionality on all platforms

- check for isblank() at configuration stage. If not available provide a suitable replacement for use in our ISBLANK macro

- use our own ISUPPER and ISLOWER macros

- use our own ISBLANK macro

- Fix c-ares failing to get the search sequence of /etc/hosts and DNS from /etc/nsswitch.conf, /etc/host.conf or /etc/svc.conf when /etc/resolv.conf did not exist or was unable to read it.
- compiler warning fix

- use macro AC_AIX to define `__ALL_SOURCE', if on AIX.

- use same AIX XLC compiler options as curl's

- *) Remove duplicate declaration of TYPE_SOCKADDR_STORAGE
  *) Update CURL_CC_DEBUG_OPTS from curl's script

Gisle Vanem (6 Feb 2007)
- INADDR_NONE no longer used.

- Added debug option ('-d') for Watt-32 programs.

- Added HAVE_PROCESS_H for DOS/Win32.
Include <process.h> for getpid() in ares_init.c.

- Fix compiler warning.

- Include <sys/time.h> and <unistd.h> inside HAVE_x_H.
  Added 'optind' and 'optarg' as in adig.c.

- Include <sys/time.h> and <unistd.h> inside HAVE_x_H.

Yang Tse (6 Feb 2007)
- compiler warning fix

Gisle Vanem (5 Feb 2007)
- Remove '-Dselect=select_s'. Remove depend.dj-

Yang Tse (5 Feb 2007)
- compiler warning fix

Gisle Vanem (4 Feb 2007)
- Use correct 3rd argument for ioctlsocket() under Watt-32.

- Use correct calling convention.

- Added DllMain() function for Watcom.

Yang Tse (2 Feb 2007)
- compiler warning fix

- add debug messages for initialization failures

- add missing strings for existing error codes
- move DEBUGF macro definition to setup_once.h

- compiler warning fix

- compiler warning fix

Gisle Vanem (30 Jan 2007)
- Support for OpenWatcom (Win32): It do have getpid(), but no
  <sys/time.h>.

Yang Tse (29 Jan 2007)
- fix compiler warning "discards qualifiers from pointer target type" in debug builds

- sync with lib/setup_once.h

Gunter Knauf (23 Jan 2007)
- enabled build with libssh2; fixed copyright for new year..

Gisle Vanem (11 Dec 2006)
- ahost.exe needs getopt.obj.

Yang Tse (25 Nov 2006)
- Make sure RETSIGTYPE is properly defined

- Define HAVE_SIGNAL_H, HAVE_SIG_ATOMIC_T and HAVE_SIG_ATOMIC_T_VOLATILE
  as appropriate for platforms that don't have autotools support

Daniel Stenberg (22 Nov 2006)
- Michael Wallner fixed this problem: When I set domains in the options
  struct, and there are domain/search entries in /etc/resolv.conf, the domains
  of the options struct will be overridden.

- Install ares_dns.h too

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* IP-address/hostname to country converter.
* Problem; you want to know where IP a.b.c.d is located.
* Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
* and get the CNAME (host->h_name). Result will be:
* CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
* CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
* The 2 letter country code is in <CC> and the ISO-3166 country
* number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
* the <CC> number.
* Ref: http://countries.nerd.dk/more.html
* Written by G. Vanem <gvanem@broadpark.no> 2006, 2007
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#ifndef __CARES_BUILD_H
#define __CARES_BUILD_H

/*
*/

#endif __CARES_BUILD_H
#define __CARES_BUILD_H

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 */

/* ================================================================ */
/*                 NOTES FOR CONFIGURE CAPABLE SYSTEMS                */
/* ================================================================ */

/*
 * NOTE 1:
 * -------
 *
 * Nothing in this file is intended to be modified or adjusted by the
 * c-ares library user nor by the c-ares library builder.
 *
 * If you think that something actually needs to be changed, adjusted
 * or fixed in this file, then, report it on the c-ares development
 * mailing list: http://cool.haxx.se/mailman/listinfo/c-ares/
 *
 * This header file shall only export symbols which are 'cares' or 'CARES'
 * prefixed, otherwise public name space would be polluted.
 *
 * NOTE 2:
 * -------
 *
 * Right now you might be staring at file ares_build.h.in or ares_build.h,
 * this is due to the following reason:
 *
 * On systems capable of running the configure script, the configure process
 * will overwrite the distributed ares_build.h file with one that is suitable
 * and specific to the library being configured and built, which is generated
 * from the ares_build.h.in template file.
 *
 * /

/* ================================================================ */
/* DEFINITION OF THESE SYMBOLS SHALL NOT TAKE PLACE ANYWHERE ELSE */
/* ================================================================ */

#ifndef CARES_SIZEOF_LONG
#error "CARES_SIZEOF_LONG shall not be defined except in ares_build.h"

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Error Compilation_aborted_CARES_SIZEOF_LONG_already_defined
#endif

#ifdef CARES_TYPEOF_ARES_SOCKETLEN_T
#error "CARES_TYPEOF_ARES_SOCKETLEN_T shall not be defined except in ares_build.h"
Error Compilation_aborted_CARES_TYPEOF_ARES_SOCKETLEN_T_already_defined
#endif

#ifdef CARES_SIZEOF_ARES_SOCKETLEN_T
#error "CARES_SIZEOF_ARES_SOCKETLEN_T shall not be defined except in ares_build.h"
Error Compilation_aborted_CARES_SIZEOF_ARES_SOCKETLEN_T_already_defined
#endif

/* ********************************************************** */
/* EXTERNAL INTERFACE SETTINGS FOR CONFIGURE CAPABLE SYSTEMS ONLY */
/* ********************************************************** */

/* Configure process defines this to 1 when it finds out that system */
/* header file ws2tcpip.h must be included by the external interface. */
#undef CARES_PULL_WS2TCPIP_H
#ifdef CARES_PULL_WS2TCPIP_H
#ifndef WIN32_LEAN_AND_MEAN
#define WIN32_LEAN_AND_MEAN
#endif
#include <windows.h>
#include <winsock2.h>
#include <ws2tcpip.h>
#endif

/* Configure process defines this to 1 when it finds out that system */
/* header file sys/types.h must be included by the external interface. */
#undef CARES_PULL_SYS_TYPES_H
#ifdef CARES_PULL_SYS_TYPES_H
#include <sys/types.h>
#endif

/* Configure process defines this to 1 when it finds out that system */
/* header file sys/socket.h must be included by the external interface. */
#undef CARES_PULL_SYS_SOCKET_H
#ifdef CARES_PULL_SYS_SOCKET_H
#include <sys/socket.h>
#endif

/* The size of `long', as computed by sizeof. */
#undef CARES_SIZEOF_LONG

/* Integral data type used for ares_socklen_t. */
#undef CARES_TYPEOF_ARES_SOCKETLEN_T
/* The size of `ares_socklen_t`, as computed by sizeof. */
#undef CARES_SIZEOF_ARES_SOCKLEN_T

/*/ Data type definition of ares_socklen_t */
typedef CARES_TYPEOF_ARES_SOCKLEN_T ares_socklen_t;
#endif /* __CARES_BUILD_H */

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* /opt/cola/permits/1272280253_1647630854.97/0/c-ares-1-8-0-tar-gz/c-ares-1.8.0/ares_ipv6.h
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c-ares ======

This is c-ares, an asynchronous resolver library. It is intended for applications which need to perform DNS queries without blocking, or need to perform multiple DNS queries in parallel. The primary examples of such applications are servers which communicate with multiple clients and programs with graphical user interfaces.

The full source code is available in the 'c-ares' release archives, and in a git repository: http://github.com/bagder/c-ares

If you find bugs, correct flaws, have questions or have comments in general in regard to c-ares (or by all means the original ares too), get in touch with us on the c-ares mailing list: http://cool.haxx.se/mailman/listinfo/c-ares

c-ares is of course distributed under the same MIT-style license as the
original ares.

You'll find all c-ares details and news here:

http://c-ares.haxx.se/

NOTES FOR C-ARES HACKERS

The following notes apply to c-ares version 1.7.0 and later.

* The distributed ares_build.h file is only intended to be used on systems which can not run the also distributed configure script.

* The distributed ares_build.h file is generated as a copy of ares_build.h.dist when the c-ares source code distribution archive file is originally created.

* If you check out from git on a non-configure platform, you must run the appropriate buildconf* script to set up ares_build.h and other local files before being able of compiling the library.

* On systems capable of running the configure script, the configure process will overwrite the distributed ares_build.h file with one that is suitable and specific to the library being configured and built, this new file is generated from the ares_build.h.in template file.

* If you intend to distribute an already compiled c-ares library you _MUST_ also distribute along with it the generated ares_build.h which has been used to compile it. Otherwise the library will be of no use for the users of the library that you have built. It is _your_ responsibility to provide this file. No one at the c-ares project can know how you have built the library.

* File ares_build.h includes platform and configuration dependent info, and must not be modified by anyone. Configure script generates it for you.

* We cannot assume anything else but very basic compiler features being present. While c-ares requires an ANSI C compiler to build, some of the earlier ANSI compilers clearly can't deal with some preprocessor operators.

* Newlines must remain unix-style for older compilers' sake.

* Comments must be written in the old-style /* unnested C-fashion */

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```

```go
package spec

import (  
  "encoding/json"  
  "testing"  
)

var license = License{
  LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
  VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `  
  "name": "the name",
  "url": "the url",
  "x-license": "custom term"
`
// const licenseYAML = "name: the name\nurl: the url"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.412 go-kit 0.10.0
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1.413 fsnotify 1.5.1
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1.414 registry-auth-token 4.2.1

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1.415 expat 2.2.5-3ubuntu0.7

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1.416 gax-go 2.1.1

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1.421 kubernetes/cli-runtime 0.18.0

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1.423 builtins 1.0.3

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1.424 go-yaml 2.2.1

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1.426 exporter-ocagent 0.6.0

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1.427 ms 2.1.3

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1.446 opentracing-go-stdlib 1.0.0

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1.449 npm-normalize-package 1.0.1

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- 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/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
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
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==============

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

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

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

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

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

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Mersenne Twister

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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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

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1.467 coreutils 8.28 1ubuntu1
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1.470 spdx-license-ids 3.0.11
1.470.1 Available under license :

    root = true

    [*]
    charset = utf-8
    end_of_line = lf
    indent_style = tab
    tab_width = 2
    insert_final_newline = true
    trim_trailing_whitespace = true

    [*.md,yml]]
    indent_style = space

    [*.md]
    trim_trailing_whitespace = false
    ...

    name: Node.js CI
    on: [push]
    jobs:
    test:
A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### `require('spdx-license-ids')`

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
// => ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
ids.includes('BSD-3-Clause'); // => true
ids.includes('CC-BY-1.0'); // => true
ids.includes('GPL-3.0'); // => false
```

### `require('spdx-license-ids/deprecated')`

Type: `string[]`

Depreciated license IDs.
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//@> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //= false
deprecatedIds.includes('CC-BY-1.0'); //= false

deprecatedIds.includes('GPL-3.0'); //= true
```
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1.472 libxpm 3.5.12-1

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1.474 mitchellh-mapstructure 1.1.2
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1.475 libasan4 7.5.0-3ubuntu1~18.04

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

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Version 3, 29 June 2007

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========

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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.

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

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

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

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

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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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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:

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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.

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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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[This is the first released version of the library GPL. It is
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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.

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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.

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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
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derivative of it, under Section 2) in object code or executable form
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it with the complete corresponding machine-readable source code, which
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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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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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<td>lib/interception/mach_override</td>
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1.478 deepmap-oapi-codegen 1.3.13

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.7/Lib/distribute/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/distribute/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/grammar.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.5.8/Lib/lib2to3/pgen2/parse.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/conv.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/pgen2/grammar.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.5.8/Lib/lib2to3/pgen2/parse.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/conv.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/literals.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.5.8/Lib/lib2to3/pgen2/parse.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/conv.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/pgen2/grammar.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Modules/_tkinter.c
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Modules/_tkinter.c
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/cygwinccompiler.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_wininst.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/driver.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/driver.py
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  bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/spawn.py

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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'"
)'License: ' + self.distribution.get_license(),

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  bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_rpm.py

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  bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pygram.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_repr.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_long.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixer_base.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
  bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_execfile.py

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1.482 go-yaml 2.3.0

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1.484 prometheus-client 1.2.0

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1.489 kubernetes-cni 0.8.7-00

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* golang.org/x/mod/module - https://github.com/golang/mod

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`  // License
    URL  string `json:"url,omitempty"`  // License
}
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package simulator
import (  
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name: "Evaluation Mode",  
  Properties: []types.KeyAnyValue{
    
    Key: "feature",  
    Value: types.KeyValue{  
      Key: "serialuri:2",  
      Value: "Remote virtual Serial Port Concentrator",  
    },
    
    Key: "feature",  
    Value: types.KeyValue{  
      Key: "dvs",  
      Value: "vSphere Distributed Switch",  
    },
  }
}


type LicenseManager struct{
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{}
  m.Self = ref
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
  
  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }
        if Map.Get(id) == nil {
            return body
        }
    }
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += fmt.Sprintf(` Additional: "%v" `, n.Additional)
    }
    return s
}
```go
s += " " + n.Additional
}
return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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{% panel style="info", title="TL;DR" %}

- Copy files to and from Containers in a cluster

{% endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster
Copy requires that *tar* be installed in the container image.

## Local to Remote
Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`

```
bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```
bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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tomb - support for clean goroutine termination in Go.

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The End

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

That's all there is to it!

1.500 facebookgo-structtag 0.0.0-
20150214074306-217e25fb9691
1.500.1 Available under license:

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1.501 libjansson4 2.11-1

1.501.1 Available under license:

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1.502 murmur 1.1.0

1.502.1 Available under license:

No license file was found, but licenses were detected in source scan.
(function webpackUniversalModuleDefinition(root, factory) {
	if(typeof exports === 'object' && typeof module === 'object')
		module.exports = factory(require("vue"));
	else if(typeof define === 'function' && define.amd)
		define([], factory);
	else if(typeof exports === 'object')
		exports['@icij/murmur'] = factory(require("vue"));
	else
		root['@icij/murmur'] = factory(root['Vue']);
})((typeof self !== 'undefined' ? self : this), function(__WEBPACK_EXTERNAL_MODULE__8bbf__) {
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 = 

return this.then(
  isFunction ? function (x) {
    return promiseResolve(C, onFinally()).then(function () {
      return x;
    });
  } : onFinally,
  isFunction ? function (e) {
    return promiseResolve(C, onFinally()).then(function () {
      return e;
    });
  } : onFinally
);
projects attach their properties to it so it needs to exist.\$support: support\n) ;\$unif ( typeof Symbol == "function" ) {\$unifQuery.fn Symbol.iterator | arr | Symbol.iterator | \$unif / Populate the class2type map\n) jQuery.each( "Boolean Number String Function Array Date RegExp Object Error Symbol" .split( "\" \" ),\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ "\"object\" + name + \"\"] = name.toLowerCase();\n) ;\$unif\n( i, name ) {\$unifclass2type[ ...

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```javascript
if ( elem.parentNode && elem.disabled === false ) {

				// Option
gooptgroup
			//   https://html.spec.whatwg.org/multipage/forms.html#concept-option-disabled
			// All such
https://html.spec.whatwg.org/multipage/forms.html#concept-fe-disabled
			// * option elements in a disabled
elements in a disabled
fieldset
			//   https://html.spec.whatwg.org/multipage/forms.html#category-listed
			//

			// Check for inherited disabledness on relevant non-disabled elements:
			// * listed form-associated
elements can match :enabled or :disabled
			// https://html.spec.whatwg.org/multipage/scripting.html#selector-
positives: fieldset[disabled] > legend:nth-of-type(n+2) :can-disable
	return function( elem ) {

		// Only certain
elements in a disabled
fieldset
			//   https://html.spec.whatwg.org/multipage/forms.html#category-listed
			//

			// Check for inherited disabledness on relevant non-disabled elements:
			// * listed form-associated
elements can match :enabled or :disabled
			// https://html.spec.whatwg.org/multipage/scripting.html#selector-
positives: fieldset[disabled] > legend:nth-of-type(n+2) :can-disable
	return function( elem ) {

```
elements defer to a parent optgroup if present

```javascript
if ( "label" in elem ) {
    return elem.parentNode.disabled === disabled;
}
```

```javascript
if ( "label" in elem.parentNode ) {
    return elem.parentNode.disabled === disabled;
} else {
    return elem.disabled === disabled;
}
```

```javascript
// Support: IE - 11
// Use the isDisabled shortcut property to check for disabled fieldset ancestors
```n
```javascript
isDisabled = disabled;
```

```javascript
// Try to winnow out elements that can't be disabled before trusting the disabled property.
```n
```javascript
/* jshint -W018 */
```n
```javascript
falseAncestor( elem ) === disabled;
```

```javascript
// Remaining elements are neither :enabled nor :disabled
```n
```javascript
false;
```

```javascript
/**
 * Returns a function to use in pseudos for positional
 * @param {Function} fn
 * @returns {Function} The input node if acceptable, otherwise a falsy value
 */
function createPositionalPseudo( fn ) {
    return markFunction(function( argument ) {
        argument = +argument;
        return markFunction(function( seed, matches ) {
            var j,
                matchIndexes = fn( [], seed.length, argument ),
                i = matchIndexes.length;

            while ( i-- ) {
                if ( seed[ j = matchIndexes[ i ] ] ) {
                    seed[ j ] = !( matches[ j ] = seed[ j ] );
                }
            }
        });
    });
}

/**
 * Checks a node for validity as a Sizzle context
 * @param {Element|Object=} context
 * @returns {Element|Object|Boolean} The input node if acceptable, otherwise a falsy value
 */
function testContext( context ) {
    return context && typeof context.getElementsByTagName !== "undefined" && context;
}

// Expose support vars for convenience
support = Sizzle.support = {};

/**
 * Detects XML nodes
 * @param {Element|Object} elem
 * @returns {Boolean} True iff elem is a non-HTML XML node
 */
isXML = Sizzle.isXML = function( elem ) {
    // documentElement is verified for cases where it doesn't yet exist
    // (such as loading iframes in IE - #4833)
    var documentElement = elem && (elem.ownerDocument || elem).documentElement;
    return documentElement ? documentElement.nodeName !== "HTML" : false;
};

/**
 * Sets document-related variables once based on the current document
 * @param {Element|Object} [doc] An element or document object to use to set the document
 * @returns {Object} Returns the current document
 */
setDocument = Sizzle.setDocument = function( node ) {
    var hasCompare,
        subWindow,
        doc = node ? node.ownerDocument || node : preferredDoc;

    // Return early if doc is invalid or already selected
    if ( doc === document || doc.nodeType !== 9 || !doc.documentElement ) {
        return document;
    }

    // Update global variables
    document = doc;
    docElem = document.documentElement;
    documentIsHTML = !isXML( document );

    // Support:
    // IE<9
    // Check if getElementById returns elements by name
    // The broken getElementById methods don't pick up programmatically-set names,
    // so use a roundabout method to test
    getElementsById = assert(function( id ) {
        var docElem = document.getElementById( id );
        return (docElem && docElem.id === id && !docElem.getAttribute("class") );
    });

    /* Attributes
    -------------------------
    */

    // Support:
    // IE<8
    // Verify that getAttribute really returns attributes and not properties
    // (excepting IE8 booleans)
    support.attributes = assert(function( el ) {
        var className = el.className;
        el.className = "i";
        el.getAttribute("class") === el.className;
    });

    // Check if getElementsByTagNames returns only elements
    getElementsByTagNames = assert(function( el ) {
        var doc = document.createElement("div");
        doc.appendChild( elem );
        var elem = docElem,
            tagNames = "\n```
```
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[36x36]Open Source Used In SMI 2021.01.0-Apr-2022  6881
node && node[ dir ] ||\n
Incorporate the offset, then check against cycle size; if( useCache ) { useCache = undefined; } ||

node.nodeType === 1 && ++diff && node === elem ) { uniqueCache[type] = [ dirruns, nodeIndex, diff ];

// Fallback to seeking `elem` from the start if found, cache indexes on `parent` and break

// The matching of C against the element's language value is performed case-

// Whether an element is represented by a :lang() selector
// is based solely on the

context, xml ) {

var idx,

matched = fn( seed, argument );

// The user may use createPseudo to indicate that arguments are needed to create the filter function

// Just as Sizzle does

\n
\n
// But maintain support for old signatures

fn( argument );

// In case custom pseudos are added with uppercase letters

Prioritize by case sensitivity in case custom pseudos are added with uppercase letters

Remember that

setFilters inherits from pseudos\n
// Defend against cloned properties

// Defend against cloned attroperties (jQuery gh-1709)

// Use the same loop as above to seek `elem` from the

// Start with the text content or inner text if available

// ...in a gzip-friendly way

// The matching of C against the element's language value is performed case-
insensitively.\n\n// The identifier C does not have to be a valid language name.\nhttp://www.w3.org/TR/selectors/#lang-pseudo\n\nmarkFunction( function(lang) {\n  \n};\n\n})(\n  function( lang ) {\n    var elemLang = documentIsHTML ? elem.lang : elem.getAttribute( "xml:lang" ) || elem.getAttribute( "lang" ) || lang.replace( runescape, funescape );\n    \n    if ( !ridentifier.test( elemLang ) ) {\n      \n    }\n    \n    // The identifier C does not have to be a valid language name."
    //\n    // http://www.w3.org/TR/selectors/#lang-pseudo
    //\n    "lang": markFunction( function( lang ) {\n      \n    }\n    //\n    },

    // Miscellaneous\n    "target": function( elem ) {
      \n    },

    // Boolean properties\n    "enabled": createDisabledPseudo( false ),
    "disabled": createDisabledPseudo( true ),
    "checked": function( elem ) {
      \n    },

    // Position-in-collection\n    "first": createPositionalPseudo(function() {
      return [ 0 ];
    }),
    "last": createPositionalPseudo(function( matchIndexes, length ) {
      return [ length - 1 ];
    }),
    "eq": createPositionalPseudo(function( matchIndexes, length, argument ) {
      return [ argument < 0 ? argument + length : argument ];
    }),
    "even": createPositionalPseudo(function( matchIndexes, length ) {
      var i = 0;
      for ( ; i < length; i += 2 ) {
        matchIndexes.push( i );
      }
    }),
    "odd": createPositionalPseudo(function( matchIndexes, length ) {
      var i = 1;
      for ( ; i < length; i += 2 ) {
        matchIndexes.push( i );
      }
    }),
    "lt": createPositionalPseudo(function( matchIndexes, length, argument ) {
      \n    }),
    "gt": createPositionalPseudo(function( matchIndexes, length, argument ) {
      \n    }),
    //\n    // Expressions\n    //\n    Expr.pseudos["empty"] = isFunction( function( attr ) {\n      return !attr;\n    } );
    Expr.pseudos["attr"] = isFunction( function( attr ) {\n      return attr && attr.nodeName;
    } );
    Expr.pseudos["input"] = isFunction( function( elem ) {\n      \n    });
    Expr.pseudos["text"] = isFunction( function( attr ) {\n      \n    });
    Expr.pseudos["button"] = isFunction( function( elem ) {\n      \n    });
    Expr.pseudos["checked"] = isFunction( function( attr ) {\n      \n    });
    Expr.pseudos["first"] = createPositionalPseudo(function( matchIndexes, length ) {
      return [ 0 ];
    });
    Expr.pseudos["last"] = createPositionalPseudo(function( matchIndexes, length ) {
      return [ length - 1 ];
    });
    Expr.pseudos["eq"] = createPositionalPseudo(function( matchIndexes, length, argument ) {
      \n    });
    Expr.pseudos["even"] = createPositionalPseudo(function( matchIndexes, length ) {
      \n    });
    Expr.pseudos["odd"] = createPositionalPseudo(function( matchIndexes, length ) {
      \n    });
    Expr.pseudos["lt"] = createPositionalPseudo(function( matchIndexes, length, argument ) {
      \n    });
    Expr.pseudos["gt"] = createPositionalPseudo(function( matchIndexes, length, argument ) {
      \n    });

    //\n    // Selectors\n    //\n    setFilters() {\n      \n    }\n
    function( selector, parseOnly ) {\n      \n    }\n  }
};

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seed or context

elems = seed || multipleContexts( selector || "\^\*\", context.nodeType ? [ context ] : context, [] ),

// Prefilter to get matcher input, preserving a map for seed-results synchronization
matcherIn = preFilter && ( seed || !selector ) ? condense( elems, preMap, preFilter, context, xml )

matcherOut = matcher ? condense( matcherOut, postMap )

postFilter = temp = condense( matcherOut, postMap )

context

matcherIn ||

\n
// Un-match failing elements by moving them back to matcherIn

\n
// Add elements to results, through postFinder if defined

\n
// Move matched elements from seed to results to keep them synchronized

\n
// Each matcher filter adds elements to results, through postFinder if defined

\n
// Combined matches

\n
// Find primary matches

// ...otherwise use results directly

\n

// PreFilter to get matcher input, preserving a map for seed-results synchronization

\n
// Un-match failing elements by moving them back to matcherIn

\n
// Move matched elements from seed to results to keep them synchronized

\n
// Each matcher filter adds elements to results, through postFinder if defined

\n
// Combined matches

\n
// Find primary matches

// ...otherwise use results directly

\n

while ( i-- ) {
token = tokens[i];

if ( Expr.relative[(type = token.type)] ) {
    break;
}
if ( (find = Expr.find[type]) ) {
    // Search, expanding context for leading combinators
    if ( (seed = find(token.matches[0].replace(runescape, funescape), rsibling.test(tokens[0].type) && testContext(context.parentNode) || context)) ) {
        tokens.splice(i, 1);
        selector = seed.length &
    }
}

// Compile and execute a filtering function if one is not provided
if (compiled || compile(selector, match) ) {
    push.apply(results, seed);
    return results;
}

// One-time assignments

support.sortStable = expando.split("\"\"\`).sort( sortOrder ).join("\"\") === expando;

// Always assume duplicates if they aren't passed to the comparison function
support.detectDuplicates = !!hasDuplicate;

setDocument();

dir = function( elem, dir, until ) {
    matched = [],
    truncate = until !== undefined;

    while ( ( elem = elem[dir] ) && elem.nodeType !== 9 ) {
        if ( elem.nodeType === 1 && truncate && jQuery(elem).is(until) ) {
            break;
        }
        matched.push( elem );
    }
    return matched;
}

siblings = function( n, elem ) {
    matched = [];

    for ( ; n; n = n.nextSibling ) {
        if ( n.nodeType === 1 && n !== elem ) {
            matched.push( n );
        }
    }
    return matched;
}

rneedsContext = jQuery.expr.match.needsContext;

nodeName = function( elem, name ) {
    return elem.nodeName &&
    elem.nodeName.toLowerCase() === name.toLowerCase();
}

rsingleTag = ( /^<([a-z][^\0>\n\x20\t\r\n\f\0]*)\[/\*/\]>\n\[/\]\?>(?:<\//\2>|$)/i );

winnow = function( elements, qualifier, not ) {
    if ( isFunction( qualifier ) ) {
        return jQuery.grep(elements, function( elem, i ) {
            return !!qualifier.call( elem, i, elem ) !== not;
        } );
    }

    // Single element
    if ( qualifier.nodeType ) {
        return jQuery.grep(elements, function(elem) {
            return elem === qualifier !== not;
        } );
    }

    // Array of elements
    if ( typeof qualifier === "string" ) {
        return jQuery.grep(elements, function(elem) {
            return toSelector( elem.matches[0].replace(runescape, funescape) ).replace(Expr.relative[0], "\") === qualifier;
        } );
    }

    // Filtered directly for both simple and complex selectors
    return winnow( jQuery.expr.match.simpleElement(qualifier, elements, not, 0 ) );
}

jQuery.trim = function( s ) { return s.trim(); };
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lists
	memory, // Flag to know if list was already fired
	fired, // Flag to prevent
	var // Flag to know if list is currently firing
	firing, // Last fire value for non-forgettable
	options = typeof options === "string" ?
	createOptions( options ) :
	jQuery.extend( {}, options )


function( options ) {


	Convert options from String-formatted to Object-formatted if needed
																																																																																																																														

																																																																																																																													

																																																																																																																													
firing\n\t\tlocked,\n\n\t\t// Actual callback list\n\t\tlist = [],\n\n\t\t// Queue of execution data for repeatable
lists\n\t\tqueue = [],\n\n\t\t// Index of currently firing callback (modified by add/remove as needed)\n\t\tfiringIndex =
-1,\n\n\t\t// Fire callbacks\n\t\tfire = function() {\n\n\t\t\t// Enforce single-firing\n\t\t\tlocked = locked ||
options.once;\n\n\t\t\t// Execute callbacks for all pending executions,\n\t\t\t// respecting firingIndex overrides and
runtime changes\n\t\t\tfired = firing = true;\n\t\t\tfor ( ; queue.length; firingIndex = -1 ) {\n\t\t\t\tmemory =
queue.shift();\n\t\t\t\twhile ( ++firingIndex < list.length ) {\n\n\t\t\t\t\t// Run callback and check for early
termination\n\t\t\t\t\tif ( list[ firingIndex ].apply( memory[ 0 ], memory[ 1 ] ) === false
&&\n\t\t\t\t\t\toptions.stopOnFalse ) {\n\n\t\t\t\t\t\t// Jump to end and forget the data so .add doesn't refire\n\t\t\t\t\t\tfiringIndex = list.length;\n\t\t\t\t\t\tmemory = false;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Forget the data
if we're done with it\n\t\t\tif ( !options.memory ) {\n\t\t\t\tmemory = false;\n\t\t\t}\n\n\t\t\tfiring = false;\n\n\t\t\t//
Clean up if we're done firing for good\n\t\t\tif ( locked ) {\n\n\t\t\t\t// Keep an empty list if we have data for future
add calls\n\t\t\t\tif ( memory ) {\n\t\t\t\t\tlist = [];\n\n\t\t\t\t// Otherwise, this object is spent\n\t\t\t\t} else
{\n\t\t\t\t\tlist = \"\";\n\t\t\t\t}\n\t\t\t}\n\t\t},\n\n\t\t// Actual Callbacks object\n\t\tself = {\n\n\t\t\t// Add a callback or a
collection of callbacks to the list\n\t\t\tadd: function() {\n\t\t\t\tif ( list ) {\n\n\t\t\t\t\t// If we have memory from a past
run, we should fire after adding\n\t\t\t\t\tif ( memory && !firing ) {\n\t\t\t\t\t\tfiringIndex = list.length 1;\n\t\t\t\t\t\tqueue.push( memory );\n\t\t\t\t\t}\n\n\t\t\t\t\t( function add( args ) {\n\t\t\t\t\t\tjQuery.each( args,
function( _, arg ) {\n\t\t\t\t\t\t\tif ( isFunction( arg ) ) {\n\t\t\t\t\t\t\t\tif ( !options.unique || !self.has( arg ) )
{\n\t\t\t\t\t\t\t\t\tlist.push( arg );\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t} else if ( arg && arg.length && toType( arg ) !==
\"string\" ) {\n\n\t\t\t\t\t\t\t\t// Inspect recursively\n\t\t\t\t\t\t\t\tadd( arg );\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t} );\n\t\t\t\t\t} )(
arguments );\n\n\t\t\t\t\tif ( memory && !firing ) {\n\t\t\t\t\t\tfire();\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\n\t\t\t// Remove a callback from the list\n\t\t\tremove: function() {\n\t\t\t\tjQuery.each( arguments,
function( _, arg ) {\n\t\t\t\t\tvar index;\n\t\t\t\t\twhile ( ( index = jQuery.inArray( arg, list, index ) ) > -1 )
{\n\t\t\t\t\t\tlist.splice( index, 1 );\n\n\t\t\t\t\t\t// Handle firing indexes\n\t\t\t\t\t\tif ( index <= firingIndex )
{\n\t\t\t\t\t\t\tfiringIndex--;\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t} );\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// Check if a given
callback is in the list.\n\t\t\t// If no argument is given, return whether or not list has callbacks attached.\n\t\t\thas:
function( fn ) {\n\t\t\t\treturn fn ?\n\t\t\t\t\tjQuery.inArray( fn, list ) > -1 :\n\t\t\t\t\tlist.length > 0;\n\t\t\t},\n\n\t\t\t//
Remove all callbacks from the list\n\t\t\tempty: function() {\n\t\t\t\tif ( list ) {\n\t\t\t\t\tlist = [];\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\n\t\t\t// Disable .fire and .add\n\t\t\t// Abort any current/pending executions\n\t\t\t// Clear all callbacks
and values\n\t\t\tdisable: function() {\n\t\t\t\tlocked = queue = [];\n\t\t\t\tlist = memory = \"\";\n\t\t\t\treturn
this;\n\t\t\t},\n\t\t\tdisabled: function() {\n\t\t\t\treturn !list;\n\t\t\t},\n\n\t\t\t// Disable .fire\n\t\t\t// Also disable .add
unless we have memory (since it would have no effect)\n\t\t\t// Abort any pending executions\n\t\t\tlock: function()
{\n\t\t\t\tlocked = queue = [];\n\t\t\t\tif ( !memory && !firing ) {\n\t\t\t\t\tlist = memory = \"\";\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\t\t\tlocked: function() {\n\t\t\t\treturn !!locked;\n\t\t\t},\n\n\t\t\t// Call all callbacks with the given
context and arguments\n\t\t\tfireWith: function( context, args ) {\n\t\t\t\tif ( !locked ) {\n\t\t\t\t\targs = args ||
[];\n\t\t\t\t\targs = [ context, args.slice ? args.slice() : args ];\n\t\t\t\t\tqueue.push( args );\n\t\t\t\t\tif ( !firing )
{\n\t\t\t\t\t\tfire();\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// Call all the callbacks with the given
arguments\n\t\t\tfire: function() {\n\t\t\t\tself.fireWith( this, arguments );\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// To
know if the callbacks have already been called at least once\n\t\t\tfired: function() {\n\t\t\t\treturn
!!fired;\n\t\t\t}\n\t\t};\n\n\treturn self;\n};\n\n\nfunction Identity( v ) {\n\treturn v;\n}\nfunction Thrower( ex )
{\n\tthrow ex;\n}\n\nfunction adoptValue( value, resolve, reject, noValue ) {\n\tvar method;\n\n\ttry {\n\n\t\t//
Check for promise aspect first to privilege synchronous behavior\n\t\tif ( value && isFunction( ( method =
value.promise ) ) ) {\n\t\t\tmethod.call( value ).done( resolve ).fail( reject );\n\n\t\t// Other thenables\n\t\t} else if (
value && isFunction( ( method = value.then ) ) ) {\n\t\t\tmethod.call( value, resolve, reject );\n\n\t\t// Other nonthenables\n\t\t} else {\n\n\t\t\t// Control `resolve` arguments by letting Array#slice cast boolean `noValue` to
integer:\n\t\t\t// * false: [ value ].slice( 0 ) => resolve( value )\n\t\t\t// * true: [ value ].slice( 1 ) =>
resolve()\n\t\t\tresolve.apply( undefined, [ value ].slice( noValue ) );\n\t\t}\n\n\t// For Promises/A+, convert
exceptions into rejections\n\t// Since jQuery.when doesn't unwrap thenables, we can skip the extra checks appearing
in\n\t// Deferred#then to conditionally suppress rejection.\n\t} catch ( value ) {\n\n\t\t// Support: Android 4.0

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Only normal processors (resolve) catch and reject exceptions.

Normal processors (resolve) also hook into progress

Special processors (notify) just wait for resolution

Normal processors (resolve) also hook into progress

...and disregard older resolution

Default process is resolve

Only normal processors (resolve) catch and reject exceptions
this;\n					resolveValues[ i ] = arguments.length > 1 ? slice.call( arguments ) : value;\n					if ( !( --remaining ) ) \n						master.resolveWith( resolveContexts, resolveValues );\n					\n					};\n
		// Single- and empty arguments are adopted like Promise.resolve\n		if ( remaining <= 1 ) \n			adoptValue( singleValue, \n				master.done( updateFunc( i ) ).resolve, master.reject, \n				master.state() === "pending" );\n
		// Multiple arguments are aggregated like Promise.all.array elements\n		while ( i-- ) {\n			adoptValue( resolveValues[ i ], updateFunc( i ), master.reject );\n		} \n
		return master.promise();\n} );\n
// These usually indicate a programmer mistake during development;\n\nvar rerrorNames = /^\(Eval|Internal|Range|Reference\)Error$/;\n
jQuery.Deferred.exceptionHook = function( error, stack ) {\n
  // Support: IE 8 - 9 only\n  // Console exists when dev tools are open, which can happen at any\n  // time\n  if ( window.console && window.console.warn && error && rerrorNames.test( error.name ) ) \n
    \n\n\njQuery.readyException = function( error ) {
	window.setTimeout( function() {
		throw error;
	} );\n\n\n\n\n// The deferred used on DOM ready\n\n\n\n// Multifunctional method to get and set values of a collection\n// The value/s can optionally be executed if it's a function\n\n\n\n\nthis;\n
\n\n\n
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```javascript
var rbrace = /^(?:\{\[\w\W\]*\}|\[\[\w\W\]*\]\])$/,
   rmultiDash = /[A-Z]/g;

function getData( data ) {
    if ( data === { } ) {
        return null;
    }

    // Only convert to a number if it doesn't change the string
    if ( data === "true" ) {
        return true;
    }

    if ( data === "false" ) {
        return false;
    }

    if ( data
```
```javascript
for ( ; index < length; index++ ) {
  elem = elements[ index ];
  if ( !elem.style )
    index = 0,
    length = elements.length;

  // Determine new display value for elements that need to
  // display;

  return display;
}

function showHide( elements, show ) {
  var display, elem,
      values =

    if ( display === "none" ) {
      display = "block";
    }
    defaultDisplayMap[ nodeName ] =

    if ( display ) {
      return display;
    }

    temp = doc.body.appendChild(
}

var defaultDisplayMap = {};

function getDefaultDisplay( elem
```
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elem.ownerDocument, elem );

// Append to fragment
tmp = getAll( fragment.appendChild( elem ), "script" );

// Preserve script evaluation history
( contains ) \n
// Capture executables
( scripts ) \n
// while ( ( elem = tmp[ j++ ] ) ) \n
// ( type ) \n
function() \n
\n
var fragment = document.createElementFragment((), div = fragment.appendChild( document.createElement( "div" ) ), div.innerHTML = "\n" );

// Check state lost if the name is set (#11217)/\n// Support: Windows Web Apps (WWA)/\n// `name` and `type` must use .setAttribute for WWA (#14901)/\n// Input setAttribute( "type",",", "radio" );/\n// Input setAttribute( "checked",",", "checked" );/\n// div.appendChild( input );/\n// Support: Android <=4.1 only/\n// Older WebKit doesn’t clone checked state correctly in fragments/\n// document.checkClone = div.cloneNode( true );/\n// lastChild.checked;/\n// Support: IE <=11 only/\n// Make sure testarea (and checkbox) defaultValue is properly cloned/\n// div.innerHTML = \n
// Caller can pass in an object of custom data in lieu of the handler
// ( handler ) \n
// Append to fragment
\n
// Evaluate against documentElement in case elem is a non-element node (e.g., document.createElement( elem ) \n
// Make sure that the handler has a unique ID, used to find/remove it later\n// ( Handler.guid ) \n
// Main handler
// ( handler ) \n
// Discard the second event of a Jquery( event ).off() event\n// ( handler ) \n
// Call and `type` must use .setAttribute for WWA (#14901)
// Ensure that invalid selectors throw exceptions at attach time\n// Evaluate against documentElement in case elem is a non-element node (e.g., document.createElement( elem ) \n
// Make sure that the handler has a unique ID, used to find/remove it later\n// ( Handler.guid ) \n
// Main handler
// ( handler ) \n
// Discard the second event of a Jquery( event ).off() event\n// ( handler ) \n
// Call and `type` must use .setAttribute for WWA (#14901)
changes its type, use the special event handlers for the changed type

special = jQuery.event.special[ type ] || {};

// If selector defined, determine special event api type, otherwise given type

special.delegateType : special.bindType ) || type;}

update special based on newly reset type

jQuery.event.special[ type ] || {};

// handleObj is passed to all event handlers

jQuery.extend( { type, origType: origType: type, data: data, handler: handler, guid: guid, needsContext: needsContext: selector, 

jQuery.expr.match.needsContext.test( selector ), 

types: namespaces.join( "," ), handlerObjIn

init the event handler queue if we're the first to trigger ( ! handler = events[ type ] )

jQuery.extend( { type, origType: origType: type, data: data, handler: handler, 


tohandleObj: selector, 

jQuery.event.remove( elem, type + types[ t ],

true );

jQuery.event.global[ type ] = true;

if ( elem.addEventListener ) {

elem.addEventListener( type, eventHandle, false );

} else {

elem.attachEvent( "on" + type, eventHandle );

}

if ( special.add ) {
	special.add.call( elem, handleObj );

}

if ( elem.removeEventListener ) {

elem.removeEventListener( type, eventHandle, false );

}

else {

elem.detachEvent( "on" + type, eventHandle );

}

	special.remove.call( elem, handleObj, namespaces, eventHandle );

}

// Only use addEventListener if the special events

// Add to the element's handler list, delegates in front, otherwise

jQuery.event.special[ type ] || {};

var event = jQuery.event.fix( nativeEvent );

var i, j, ret, matched, handleObj,

// Keep track of which events have ever been used, for event optimization

jQuery.event.remove( elem, type + types[ t ],

true );

jQuery.event.global[ type ] = true;

if ( elem.addEventListener ) {

elem.addEventListener( type, eventHandle, false );

} else {

elem.attachEvent( "on" + type, eventHandle );

}

if ( special.add ) {
	special.add.call( elem, handleObj );

}

if ( elem.removeEventListener ) {

elem.removeEventListener( type, eventHandle, false );

}

else {

elem.detachEvent( "on" + type, eventHandle );

}

return;

return;

jQuery.event.remove( elem, type + types[ t ],

true );

jQuery.event.global[ type ] = true;

if ( elem.addEventListener ) {

elem.addEventListener( type, eventHandle, false );

} else {

elem.attachEvent( "on" + type, eventHandle );

}

if ( special.add ) {
	special.add.call( elem, handleObj );

}

if ( elem.removeEventListener ) {

elem.removeEventListener( type, eventHandle, false );

}

else {

elem.detachEvent( "on" + type, eventHandle );

}

return;

return;

jQuery.event.remove( elem, type + types[ t ],

true );

jQuery.event.global[ type ] = true;

if ( elem.addEventListener ) {

elem.addEventListener( type, eventHandle, false );

} else {

elem.attachEvent( "on" + type, eventHandle );

}

if ( special.add ) {
	special.add.call( elem, handleObj );

}

if ( elem.removeEventListener ) {

elem.removeEventListener( type, eventHandle, false );

}

else {

elem.detachEvent( "on" + type, eventHandle );

}
function( elem, type, handle ) {

// This "if" is needed for plain objects
	if ( elem.removeEventListener ) {
		elem.removeEventListener( type, handle );
	}
};

jQuery.Event = function( src, props ) {

// Allow instantiation without the 'new' keyword
	if ( !( this instanceof jQuery.Event ) ) {
		return new jQuery.Event( src, props );
	}

// Events bubbling up the document may have been marked as prevented
// by a handler lower down the tree; reflect the correct value.
	this.isDefaultPrevented = src.defaultPrevented ||
				returnFalse;

// Create target properties
	if ( src && src.type ) {
		this.originalEvent = src;
		this.type = src.type;

// Target should not be a text node
	if ( ( 504, 13143 ) ||
				returnFalse ) {
				returnFalse;
				returnTrue;
				returnFalse;
			}

	// Create a timestamp if incoming event doesn't have one
	this.timeStamp = src && src.timeStamp || Date.now();

// Mark it as fixed
	this[ jQuery.expando ] = true;

// Put explicitly provided properties onto the event object
	if ( props ) {
		jQuery.extend( this, props );
	}

// Create mouseenter/leave events using mouseover/out and event-time checks
// so that event delegation works in jQuery.
// Do the same for pointerenter/pointerout

jQuery.fn.extend( {

	// The basic .on() method
	on: function( types, selector, data, fn ) {
		return on( this, types, selector, data, fn );
	},
	one: function( types, selector, data, fn ) {
		return on( this, types, selector, data, fn, 1 );
	},
	off: function( types, selector, data, fn ) {
		return off( this, types, selector, data, fn );
	},
	off: function( types, selector, data, fn ) {
		return off( this, types, selector, data, fn );
	},
};

// Include key events
jQuery.each( {
	altKey: true,
	bubbles: true,
cancelable: true,
	detail: true,
	eventPhase: true,
	metaKey: true,
	pageX: true,
	pageY: true,
	shiftKey: true,
	view: true,
	"char": true,
	keyCode: true,
	button: true,
	number: true,

target: true,

targetTouches: true,
	toElement: true,

touches: true,

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touches: true,

touches: true,

touches: true,

touches: true,

touches: true,

touches: true,
function( types, selector, fn ) {

		var

		// See https://github.com/eslint/eslint/issues/3229
		rxhtmlTag = /<(?!area|br|col|embed|hr|img|input|link|meta|param)(([a-z][^\s\0>\x20\t\r\n\f]*)[^\s>]|[^>]*)/gi,

		// Support: IE <=10 - 11, Edge 12 - 13 only
		// In IE/Edge using regex groups here causes severe slowdowns.

		var

			/* eslint-disable max-len */

			// See https://github.com/eslint/eslint/issues/3229
			trxhtmlTag = /<(?!area|br|col|embed|hr|img|input|link|meta|param)(([a-z][^\s\0>\x20\t\r\n\f]*)[^\s>]|[^>]*)/gi,

			/* eslint-enable */

			// See https://github.com/eslint/eslint/issues/3229
		\nxhtmlTag = /<(?!area|br|col|embed|hr|img|input|link|meta|param)(([a-z][^\s\0>\x20\t\r\n\f]*)[^\s>]|[^>]*)/gi,

			/* eslint-enable */

			// Support: IE <=10 - 11, Edge 12 - 13 only
			// In IE/Edge using regex groups here causes severe slowdowns.

		\nxhtmlTag = /<(?!area|br|col|embed|hr|img|input|link|meta|param)(([a-z][^\s\0>\x20\t\r\n\f]*)[^\s>]|[^>]*)/gi,
absolute"; sessionStorage = div.offsetWidth === 36 || "absolute"

scrollboxSizeVal = div.offsetWidth === 36 || "absolute"


documentElement.removeChild(container);

// Nullify the div so it wouldn't be stored in the memory and
// it will also be a sign that checks already performed
// on the div = null;

function roundPixelMeasures( measure ) {

	return Math.round( parseFloat( measure ) );
}

// NULLIFY boxModelAdjustment;
// NULLIFY scrollboxSizeVal;
// NULLIFY pixelBoxStylesVal;
// NULLIFY reliableMarginLeftVal;

	container = document.createElement("div");
	div = document.createElement("div");

// Finish early in limited (non-browser) environments
// on detatched elements
// style = elem.style;

// Support: IE <=9 - 11 only
// Style of cloned element affects source element cloned

// #8908/\n
// backgroundClamp = "content-box";

// backgroundClamp = \\

// null;

// Fitzgerald = div.style.backgroundClamp = "\\n
// content-box";

// Fitzgerald.extend( support,

// boxSizingReliable: function( ) {

// computeStyleTests();

// return boxSizingReliableVal

// }

// }

// null;

// div = null;

// if ( !div.style ) {

// return;

// }

// Support: IE <=9 - 11 only
// Style of cloned element affects source element cloned

// #(IE 9 only, #12537/\n
// .css(\n
// .css(\n
// customProperty)

// #3144)/

// \n
// ( computed )

// \n
// getPropertyValue( name ) || computed[ name ];

// \n
// if ( ret === "\\n
// & jQuery.contains( elem.ownerDocument, elem ) )

// \n
// return;

// // A tribute to the \'awesome hack by Dean Edwards\'

// Android Browser returns percentage for

// some values,\n
// but width seems to be reliably pixels.

// This is against the CSSOM draft spec:

// https://drafts.csswg.org/cssom/#resolved-values

// rboxStyle.test( name ) ) {

// style.minWidth = maxWidth;

// style.maxWidth = style.width;

// } in the new values to get a computed value

// out;

// margin: 0; /* Backwards compatibility */

// Revert the

// changed values

// style.width = style.minWidth = style.maxWidth = style.width;

// style.minWidth = minWidth;

// style.maxWidth = maxWidth;

// styleتصل ret !== undefined ?

// support.\n
// ( computed )

// apply( this, arguments )

// var

// Swappable if display is none or starts with table

// except "table\n
// table-cell", or "table-caption"

// See here for display values:


// turndisplayswap = /^\!/ (nonempty)!

// check for the first run if it's really needed.

// Hook not needed (or it's not possible to use it due\n
// removing dependency), remove it.

// delete this.get();

// Hook needed;

// redefine it so that the support test is not

// executed again.

// ( get = hookFn )

// toUpper( ) + name.slice( 1 ),

// Check for vendor prefixed names

// vendorName = name.toLowerCase();

// Swappable if display is none or starts with table

// except "table\n
// table-cell", or "table-caption"

// See here for display values:


// turndisplayswap = /^\!/ (nonempty)

// function( ) {

// return cssProps( name );

// CapName = name[ 0 ].toUpperCase() + name.slice( 1 );

// Check for vendor prefixed names

// vendorName = name.toLowerCase();

// NewVendorName = cssPrefixes.length;

// while ( -- ), { [ name ] = cssPrefixes[ i ];

// + CapName;

// ( name in emptyStyle )

// "\n
// "

// return;

// property mapped along what jQuery.

// CSSProps suggests or toString(); a vendor prefixed property.

// jQuery.intrinsic.finalProperty( name )

// returning cssProps[ name ] = vendorPropName( name )

// || name;

// return ret;

// jQuery( name )

// newfunction( number, value, subtract )

// Any relative (+/-) values have already been normalized at this point

// each/"+"

// return matches[ 2 ] -

// subtract || 0 )

// matches[ 3 ] || "px"

// "\n
// value;

// newfunction boxModelAdjustment( elem, dimension, box,
isBorderBox, styles, computedVal ) {\n\tvar i = dimension === \"width\" ? 1 : 0,\n\t\textra = 0,\n\t\tdelta = 0;\n\n\t//
Adjustment may not be necessary\n\tif ( box === ( isBorderBox ? \"border\" : \"content\" ) ) {\n\t\treturn
0;\n\t}\n\n\tfor ( ; i < 4; i += 2 ) {\n\n\t\t// Both box models exclude margin\n\t\tif ( box === \"margin\" )
{\n\t\t\tdelta += jQuery.css( elem, box + cssExpand[ i ], true, styles );\n\t\t}\n\n\t\t// If we get here with a contentbox, we're seeking \"padding\" or \"border\" or \"margin\"\n\t\tif ( !isBorderBox ) {\n\n\t\t\t// Add
padding\n\t\t\tdelta += jQuery.css( elem, \"padding\" + cssExpand[ i ], true, styles );\n\n\t\t\t// For \"border\" or
\"margin\", add border\n\t\t\tif ( box !== \"padding\" ) {\n\t\t\t\tdelta += jQuery.css( elem, \"border\" + cssExpand[ i
] + \"Width\", true, styles );\n\n\t\t\t// But still keep track of it otherwise\n\t\t\t} else {\n\t\t\t\textra += jQuery.css(
elem, \"border\" + cssExpand[ i ] + \"Width\", true, styles );\n\t\t\t}\n\n\t\t// If we get here with a border-box (content
+ padding + border), we're seeking \"content\" or\n\t\t// \"padding\" or \"margin\"\n\t\t} else {\n\n\t\t\t// For
\"content\", subtract padding\n\t\t\tif ( box === \"content\" ) {\n\t\t\t\tdelta -= jQuery.css( elem, \"padding\" +
cssExpand[ i ], true, styles );\n\t\t\t}\n\n\t\t\t// For \"content\" or \"padding\", subtract border\n\t\t\tif ( box !==
\"margin\" ) {\n\t\t\t\tdelta -= jQuery.css( elem, \"border\" + cssExpand[ i ] + \"Width\", true, styles
);\n\t\t\t}\n\t\t}\n\t}\n\n\t// Account for positive content-box scroll gutter when requested by providing
computedVal\n\tif ( !isBorderBox && computedVal >= 0 ) {\n\n\t\t// offsetWidth/offsetHeight is a rounded sum of
content, padding, scroll gutter, and border\n\t\t// Assuming integer scroll gutter, subtract the rest and round
down\n\t\tdelta += Math.max( 0, Math.ceil(\n\t\t\telem[ \"offset\" + dimension[ 0 ].toUpperCase() + dimension.slice(
1 ) ] -\n\t\t\tcomputedVal -\n\t\t\tdelta -\n\t\t\textra -\n\t\t\t0.5\n\t\t) );\n\t}\n\n\treturn delta;\n}\n\nfunction
getWidthOrHeight( elem, dimension, extra ) {\n\n\t// Start with computed style\n\tvar styles = getStyles( elem
),\n\t\tval = curCSS( elem, dimension, styles ),\n\t\tisBorderBox = jQuery.css( elem, \"boxSizing\", false, styles )
=== \"border-box\",\n\t\tvalueIsBorderBox = isBorderBox;\n\n\t// Support: Firefox <=54\n\t// Return a confounding
non-pixel value or feign ignorance, as appropriate.\n\tif ( rnumnonpx.test( val ) ) {\n\t\tif ( !extra ) {\n\t\t\treturn
val;\n\t\t}\n\t\tval = \"auto\";\n\t}\n\n\t// Check for style in case a browser which returns unreliable values\n\t// for
getComputedStyle silently falls back to the reliable elem.style\n\tvalueIsBorderBox = valueIsBorderBox &&\n\t\t(
support.boxSizingReliable() || val === elem.style[ dimension ] );\n\n\t// Fall back to offsetWidth/offsetHeight when
value is \"auto\"\n\t// This happens for inline elements with no explicit setting (gh-3571)\n\t// Support: Android
<=4.1 - 4.3 only\n\t// Also use offsetWidth/offsetHeight for misreported inline dimensions (gh-3602)\n\tif ( val ===
\"auto\" ||\n\t\t!parseFloat( val ) && jQuery.css( elem, \"display\", false, styles ) === \"inline\" ) {\n\n\t\tval = elem[
\"offset\" + dimension[ 0 ].toUpperCase() + dimension.slice( 1 ) ];\n\n\t\t// offsetWidth/offsetHeight provide borderbox values\n\t\tvalueIsBorderBox = true;\n\t}\n\n\t// Normalize \"\" and auto\n\tval = parseFloat( val ) || 0;\n\n\t//
Adjust for the element's box model\n\treturn ( val
+\n\t\tboxModelAdjustment(\n\t\t\telem,\n\t\t\tdimension,\n\t\t\textra || ( isBorderBox ? \"border\" : \"content\"
),\n\t\t\tvalueIsBorderBox,\n\t\t\tstyles,\n\n\t\t\t// Provide the current computed size to request scroll gutter
calculation (gh-3589)\n\t\t\tval\n\t\t)\n\t) + \"px\";\n}\n\njQuery.extend( {\n\n\t// Add in style property hooks for
overriding the default\n\t// behavior of getting and setting a style property\n\tcssHooks: {\n\t\topacity: {\n\t\t\tget:
function( elem, computed ) {\n\t\t\t\tif ( computed ) {\n\n\t\t\t\t\t// We should always get a number back from
opacity\n\t\t\t\t\tvar ret = curCSS( elem, \"opacity\" );\n\t\t\t\t\treturn ret === \"\" ? \"1\" :
ret;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t},\n\n\t// Don't automatically add \"px\" to these possibly-unitless
properties\n\tcssNumber: {\n\t\t\"animationIterationCount\": true,\n\t\t\"columnCount\": true,\n\t\t\"fillOpacity\":
true,\n\t\t\"flexGrow\": true,\n\t\t\"flexShrink\": true,\n\t\t\"fontWeight\": true,\n\t\t\"lineHeight\":
true,\n\t\t\"opacity\": true,\n\t\t\"order\": true,\n\t\t\"orphans\": true,\n\t\t\"widows\": true,\n\t\t\"zIndex\":
true,\n\t\t\"zoom\": true\n\t},\n\n\t// Add in properties whose names you wish to fix before\n\t// setting or getting the
value\n\tcssProps: {},\n\n\t// Get and set the style property on a DOM Node\n\tstyle: function( elem, name, value,
extra ) {\n\n\t\t// Don't set styles on text and comment nodes\n\t\tif ( !elem || elem.nodeType === 3 || elem.nodeType
=== 8 || !elem.style ) {\n\t\t\treturn;\n\t\t}\n\n\t\t// Make sure that we're working with the right name\n\t\tvar ret,
type, hooks,\n\t\t\torigName = camelCase( name ),\n\t\t\tisCustomProp = rcustomProp.test( name ),\n\t\t\tstyle =
elem.style;\n\n\t\t// Make sure that we're working with the right name. We don't\n\t\t// want to query the value if it is
a CSS custom property\n\t\t// since they are user-defined.\n\t\tif ( !isCustomProp ) {\n\t\t\tname = finalPropName(

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function createFxNow() {

window.setTimeout(function() {
    tfxNow = undefined;
}
);
return ( fxNow = Date.now() ) ;

function genericParametersToCreateAStandardAnimation(tween, type, includeWidth) {
    return (fxtween = createFxNow() ) ;
}

function createAnimation( elem, props, opts ) {
    var value, attrName, toggle, hooks, oldfire, display, isBox, anim = this,
        orig = {},
        style = elem.style,
        hidden = elem.nodeType && isHiddenWithinTree( elem ),
        dataShow = dataPriv.get( elem, "fxshow" );

    // Queue-identifiers
    if ( dataShow && dataShow[ prop ] !== undefined ) {
        hidden = dataShow.hidden;
    }

    // Pretend to be hidden if this is a "show" and we're there is still data from a stopped
    // show/hide animation
    value = orig[ prop ] = ( value === "show" && dataShow && dataShow[ prop ] !== undefined ) ?
        true : undefined;

    // Ignore all other no-op show/hide data
    ignoreNoopOnOptOutOfAnimation = true;

    // Get our current value, unless it's not true, we want
    // to do all cssExpand values

    // otherwise step value is 1 to skip over Left and Right
    includeWidth = true;

    // or we want to do all cssExpand values

too.
    style.display;

    // Bail out if this is a no-op like .hide().hide()
    if ( propTween !== undefined ) {
        if ( jQuery.isObject( prop ) ) {
            for ( prop in props ) {
                value = props[ prop ];
                if ( rfxtypes.test( value ) ) {
                    if ( !isBox ) {
                        style.overflowY = opts.overflow[ 2 ];
                    }
                    style.overflowX = opts.overflow[ 1 ];
                }
            }
        }
        else if ( jQuery.isObject( elem ) ) {
            if ( jQuery.css( elem, "float" ) === "none" ) {
                if ( restoreDisplay != null ) {
                    return;
                }
            }
            if ( dataShow == null ) {
                dataShow = dataPriv.get( elem, "fxshow" );
            } else {
                if ( !opts.queue ) {
                    hooks = jQuery._queueHooks( elem, "fx" );
                    // Restrict "overflow" and "display" styles during box animations
                    if ( isBox && ( elem.nodeType === 1 ) ) {
                        // Support: IE <=9 - 11, Edge 12 - 15
                        Record all 3 overflow attributes because IE does not infer the shorthand
                        // from identically-valued overflowX and overflowY and Edge just mirrors
                        // the cascade
                        style.overflow = "hidden";
                        anim.always( function() {
                            hooks.empty.fire();
                        } );
                    }
                }
                if ( hooks.unqueued == null ) {
                    hooks.unqueued = 0;
                }
            }
            if ( hooks.unqueued++ ) {
                return;
            }
            if ( !opts.queue ) {
                hooks.empty.fire = function() {
                    hooks.unqueued = 0;
                };
            }
            return;
        }
    }

    // Generate parameters to create a standard animation
    function genFx(tween, type, includeWidth) {
        return ( fxNow = Date.now() ) ;
    }

    function defaultPrefilter( collection ) {
        for ( ; index < length; index++ ) {
            if ( ( tween = collection[ index ] ).call( animation, prop, orig ) ) {
                return ( tween = collection[ index ] ) ;
            }
        }
    }

    function createFxNow() {
        return (tfxNow = Date.now() ) ;
    }

    function genericParametersToCreateAStandardAnimation(tween, type, includeWidth) {
        return (fxtween = createFxNow() ) ;
    }

    function createAnimation( elem, props, opts ) {
        var value, attrName, toggle, hooks, oldfire, display, isBox, anim = this,
            orig = {},
            style = elem.style,
            hidden = elem.nodeType && isHiddenWithinTree( elem ),
            dataShow = dataPriv.get( elem, "fxshow" );

        // Queue-identifiers
        if ( dataShow && dataShow[ prop ] !== undefined ) {
            hidden = dataShow.hidden;
        }

        // Pretend to be hidden if this is a "show" and we're there is still data from a stopped
        // show/hide animation
        value = orig[ prop ] = ( value === "show" && dataShow && dataShow[ prop ] !== undefined ) ?
            true : undefined;

        // Ignore all other no-op show/hide data
        ignoreNoopOnOptOutOfAnimation = true;

        // Get our current value, unless it's not true, we want
        // to do all cssExpand values

        // otherwise step value is 1 to skip over Left and Right
        includeWidth = true;

        // or we want to do all cssExpand values

too.
        style.display;

        // Bail out if this is a no-op like .hide().hide()
        if ( propTween !== undefined ) {
            if ( jQuery.isObject( prop ) ) {
                for ( prop in props ) {
                    value = props[ prop ];
                    if ( rfxtypes.test( value ) ) {
                        if ( !isBox ) {
                            style.overflowY = opts.overflow[ 2 ];
                        }
                        style.overflowX = opts.overflow[ 1 ];
                    }
                }
            }
            else if ( jQuery.isObject( elem ) ) {
                if ( jQuery.css( elem, "float" ) === "none" ) {
                    if ( restoreDisplay != null ) {
                        return;
                    }
                }
                if ( dataShow == null ) {
                    dataShow = dataPriv.get( elem, "fxshow" );
                } else {
                    if ( !opts.queue ) {
                        hooks = jQuery._queueHooks( elem, "fx" );
                        // Restrict "overflow" and "display" styles during box animations
                        if ( isBox && ( elem.nodeType === 1 ) ) {
                            // Support: IE <=9 - 11, Edge 12 - 15
                            Record all 3 overflow attributes because IE does not infer the shorthand
                            // from identically-valued overflowX and overflowY and Edge just mirrors
                            // the cascade
                            style.overflow = "hidden";
                            anim.always( function() {
                                hooks.empty.fire();
                            } );
                        }
                    }
                }
                if ( hooks.unqueued == null ) {
                    hooks.unqueued = 0;
                }
            }
        }
        if ( hooks.unqueued++ ) {
            return;
        }
        if ( !opts.queue ) {
            hooks.empty}{
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Look for any animations in the old queue and finish them:

```javascript
for ( index = 0; index < length; index++ ) {
    if ( queue[ index ] && queue[ index ].finish ) {
        queue[ index ].finish.call( this );
    }
}
```

// Turn off finishing flag:

```javascript
delete data.finish;
```

jQuery.each( [ "toggle", "show", "hide" ], function( i, name ) {
    jQuery.fn[ name ] = function( speed, easing, callback ) {
        return speed == null || typeof speed === "boolean" ?
            this.animate( genFx( name, true ), speed, easing, callback ) :
            this.animate( genFx( name, speed, easing, callback ), speed, easing, callback ) ;
    }
} );

jQuery.each( [ "toggle", "show", "hide" ], function( i, name ) {
    var cssFn = jQuery.fn[ name ];
    jQuery.fn[ name ] = function( speed, easing, callback ) {
        return speed == null || typeof speed === "boolean" ?
            cssFn.apply( this, arguments ) :
            this.animate( genFx( name, true ), speed, easing, callback, callback ) ;
    }
} );

// Generate shortcuts for custom animations:

```javascript
jQuery.each( {
    slideDown: genFx( "show" ),
    slideUp: genFx( "hide" ),
    slideToggle: genFx( "toggle" ),
    fadeIn: { opacity: "show" },
    fadeOut: { opacity: "hide" },
    fadeToggle: { opacity: "toggle" } }, function( name, props ) {
        jQuery.fn[ name ] = function( speed, easing, callback ) {
            return this.animate( props, speed, easing, callback );
        }
    }
} );

jQuery.timers = [];
jQuery.fx.tick = function() {
    var timer,
        i = 0,
        timers = jQuery.timers;

    fxNow = Date.now();

    for ( ; i < timers.length; i++ ) {
        timer = timers[ i ];

        // Run the timer and safely remove it when done (allowing for external removal)
        if ( !timer() && timers[ i ] === timer ) {
            timers.splice( i--, 1 );
        }
    }

    if ( !timers.length ) {
        jQuery.fx.stop();
    }
    fxNow = undefined;
};

jQuery.fx.timer = function( timer ) {
    jQuery.timers.push( timer );
    jQuery.fx.start();
};

jQuery.fx.interval = 13;
jQuery.fx.start = function() {
    if ( inProgress ) {
        return;
    }

    inProgress = true;
    schedule();
};

jQuery.fx.stop = function() {
    inProgress = null;
};

jQuery.fx.speeds = {
    slow: 600,
    fast: 200,

    // Default speed
    _default: 400
};

var boolHook,
    attrHandle = jQuery.expr.attrHandle;

jQuery.fn.extend( {
    attr: function( name, value ) {
        return access( this, jQuery.attr, name, value, arguments.length > 1 );
    },

   removeAttr: function( name ) {
        return this.each( function(){
            jQuery.removeAttr( this, name );
        } );
    }
} );

jQuery.extend( {
    attr: function( elem, name, value ) {
        var ret, hooks,
            nType = elem.nodeType;

        // Don't get/set attributes on text, comment and attribute nodes
        if ( nType === 3 || nType === 8 || nType === 2 ) {
            return;
        }

        // Fallback to prop when attributes are not supported
        if ( typeof elem.getAttribute === "undefined" ) {
            return jQuery.prop( elem, name, value );
        }

        // Attribute hooks are determined by the lowercase version
        // Grab necessary hook if one is defined
        if ( nType !== 1 || !jQuery.isXMLDoc( elem ) ) {
            hooks = jQuery.attrHooks[ name.toLowerCase() ] ||
                ( jQuery.expr.match.bool.test( name ) ? boolHook : undefined );
        }

        if ( value !== undefined ) {
            if ( value === null ) {
                jQuery.removeAttr( elem, name );
            } else if ( hooks && "set" in hooks &&
                hooks[ "set" ]( elem, value, name, true ) ) {
                return true;
            } else {
                return jQuery.attr.apply( this, arguments );
            }
        } else if ( hooks && "get" in hooks &&
            hooks[ "get" ]( elem, name, true ) ) {
            return true;
        } else {
            return jQuery.attr.apply( this, arguments );
        }
    },

    attrHooks: {
        type: {
            set: function( elem, value ) {
                if ( !support.radioValue && value === "radio" &&
                    nodeName( elem, "input" ) ) {
                    elem.setAttribute( "type", value );
                    if ( ele.value ) {
                        elem.value = ele.value;
                    }
                }
            }
        }
    }
} );

```

( function() {
    var input = document.createElement( "input" ),
        select = document.createElement( "select" ),
        opt = select.appendChild( document.createElement( "option" ) );

    input.type = "checkbox";

    // Support: Android <=4.3 only
    // Default value for a checkbox should be "on"
    support.checkOn = input.value !== "";

    // Support: IE <=11 only
    // Must access selectedIndex to make default options select
    input = document.createElement( "input" );
    input.value = "t";
    input.type = "radio";
    support.radioValue = input.value === "t";
} )();

jQuery.attr = function( elem, name, value ) {
    var ret, hooks,
        nType = elem.nodeType;

    // Don't get/set attributes on text, comment and attribute nodes
    if ( nType === 3 || nType === 8 || nType === 2 ) {
        return;
    }

    // Fallback to prop when attributes are not supported
    if ( typeof elem.getAttribute === "undefined" ) {
        return jQuery.prop( elem, name, value );
    }

    // Attribute hooks are determined by the lowercase version
    // Grab necessary hook if one is defined
    if ( nType !== 1 || !jQuery.isXMLDoc( elem ) ) {
        hooks = jQuery.attrHooks[ name.toLowerCase() ] ||
            ( jQuery.expr.match.bool.test( name ) ? boolHook : undefined );
    }

    if ( value !== undefined ) {
        if ( value === null ) {
            jQuery.removeAttr( elem, name );
        } else if ( hooks && "set" in hooks &&
            hooks[ "set" ]( elem, value, name, true ) ) {
            return true;
        } else {
            return jQuery.attr.apply( this, arguments );
        }
    } else if ( hooks && "get" in hooks &&
        hooks[ "get" ]( elem, name, true ) ) {
        return true;
    } else {
        return jQuery.attr.apply( this, arguments );
    }
};

// Based off of the plugin by Clint Helfers, with permission.

```
```
```
```
https://html.spec.whatwg.org/multipage/syntax.html#attributes-2

```javascript
attrNames = value && value.match(rnothtmlwhite);
if (attrNames && elem.nodeType === 1) {
  while ( (name = attrNames[++i]) ) {
    elem.removeAttribute(name);
  }
}
```

```javascript
if ( attrNames && elem.nodeType === 1 ) {
  while ( ( name = attrNames[ i++ ] ) ) {
    elem.removeAttribute( name );
  }
}
```

```javascript
// Hooks for boolean attributes
boolHook = {
  set: function( elem, value, name ) {
    if ( value === false ) {
      jQuery.removeAttr( elem, name );
    } else { elem.removeAttribute( name );
  }
}
```

```javascript
jQuery.each( jQuery.expr.match.bool.source.match(/\w+/g), function( i, name ) {
  var getter = attrHandle[ name ] || jQuery.find.attr;

  attrHandle[ name ] = function( elem, name, isXML ) {
    var ret,
        handle,
        lowercaseName = name.toLowerCase();

    if ( !isXML ) {
      handle = attrHandle[ lowercaseName ];
      attrHandle[ lowercaseName ] = ret;
      ret = getter( elem, name, isXML ) != null ? lowercaseName : null;
      attrHandle[ lowercaseName ] = handle;
    }
  }
}
```

```javascript
// Support: IE <=11 only
// Accessing the selectedIndex property
// forces the browser to respect setting selected
// on the option
// eslint rule "no-unused-expressions" is disabled for this
// code since it considers such accessions noop
if ( !support.optSelected ) {
  jQuery.propHooks.selected = {
    get: function( elem ) {
      var parent = elem.parentNode;
      if ( parent && parent.parentNode ) {
        parent.parentNode.selectedIndex;
      }
    },
    set: function( elem ) {
      var parent = elem.parentNode;
      if ( parent ) {
        parent.selectedIndex;
        if ( parent.parentNode ) {
          parent.parentNode.selectedIndex;
        }
      }
    }
  };
}
```

```javascript
jQuery.each(["tabIndex", "readOnly", "maxLength", "cellSpacing", "cellPadding", "rowSpan", "colSpan", "useMap", "frameBorder", "contentEditable"], function() {
  jQuery.propFix[this.toLowerCase()] = this;
});
```

```javascript
function stripAndCollapse( value ) {
  var tokens = value.match(rnothtmlwhite) || [];
  return tokens.join( " ");
}
```

```javascript
jQuery.fn.extend( {
  addClass: function( value ) {
    var classes,
        elem, cur, curValue, clazz, j, finalValue,
        i = 0;

    if ( isFunction( value ) ) {
      this.each( function( j ) {
        jQuery(this).addClass( value.call( this, j, getClass( this ) ) );
      } );
    } else {
      classes = classesToArray( value );
      for ( ; ; ) {
        elem = this[ i++ ];
        if ( elem ) {
          cur = elem.getAttributeNode( "class" );
          if ( curValue = cur && cur.value ) {
            finalValue = stripAndCollapse( curValue );
            if ( finalValue.indexOf( value ) < 0 ) {
              finalValue += " "+value;
              cur.value = finalValue;
            }
          }
        }
      }
    }
  }
```
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value;\n\t\t\t\t\t}\n\t\t\t\t\treturn this;\n\t\t\t\t},\n\n\t\t\t\t// Overrides response content-type
header\n\t\t\t\toverrideMimeType: function( type ) {\n\t\t\t\t\tif ( completed == null ) {\n\t\t\t\t\t\ts.mimeType =
type;\n\t\t\t\t\t}\n\t\t\t\t\treturn this;\n\t\t\t\t},\n\n\t\t\t\t// Status-dependent callbacks\n\t\t\t\tstatusCode: function( map
) {\n\t\t\t\t\tvar code;\n\t\t\t\t\tif ( map ) {\n\t\t\t\t\t\tif ( completed ) {\n\n\t\t\t\t\t\t\t// Execute the appropriate
callbacks\n\t\t\t\t\t\t\tjqXHR.always( map[ jqXHR.status ] );\n\t\t\t\t\t\t} else {\n\n\t\t\t\t\t\t\t// Lazy-add the new
callbacks in a way that preserves old ones\n\t\t\t\t\t\t\tfor ( code in map ) {\n\t\t\t\t\t\t\t\tstatusCode[ code ] = [
statusCode[ code ], map[ code ] ];\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\treturn this;\n\t\t\t\t},\n\n\t\t\t\t// Cancel
the request\n\t\t\t\tabort: function( statusText ) {\n\t\t\t\t\tvar finalText = statusText || strAbort;\n\t\t\t\t\tif ( transport
) {\n\t\t\t\t\t\ttransport.abort( finalText );\n\t\t\t\t\t}\n\t\t\t\t\tdone( 0, finalText );\n\t\t\t\t\treturn
this;\n\t\t\t\t}\n\t\t\t};\n\n\t\t// Attach deferreds\n\t\tdeferred.promise( jqXHR );\n\n\t\t// Add protocol if not provided
(prefilters might expect it)\n\t\t// Handle falsy url in the settings object (#10093: consistency with old
signature)\n\t\t// We also use the url parameter if available\n\t\ts.url = ( ( url || s.url || location.href ) + \"\"
)\n\t\t\t.replace( rprotocol, location.protocol + \"//\" );\n\n\t\t// Alias method option to type as per ticket
#12004\n\t\ts.type = options.method || options.type || s.method || s.type;\n\n\t\t// Extract dataTypes
list\n\t\ts.dataTypes = ( s.dataType || \"*\" ).toLowerCase().match( rnothtmlwhite ) || [ \"\" ];\n\n\t\t// A cross-domain
request is in order when the origin doesn't match the current origin.\n\t\tif ( s.crossDomain == null )
{\n\t\t\turlAnchor = document.createElement( \"a\" );\n\n\t\t\t// Support: IE <=8 - 11, Edge 12 - 15\n\t\t\t// IE throws
exception on accessing the href property if url is malformed,\n\t\t\t// e.g. http://example.com:80x/\n\t\t\ttry
{\n\t\t\t\turlAnchor.href = s.url;\n\n\t\t\t\t// Support: IE <=8 - 11 only\n\t\t\t\t// Anchor's host property isn't correctly
set when s.url is relative\n\t\t\t\turlAnchor.href = urlAnchor.href;\n\t\t\t\ts.crossDomain = originAnchor.protocol +
\"//\" + originAnchor.host !==\n\t\t\t\t\turlAnchor.protocol + \"//\" + urlAnchor.host;\n\t\t\t} catch ( e ) {\n\n\t\t\t\t// If
there is an error parsing the URL, assume it is crossDomain,\n\t\t\t\t// it can be rejected by the transport if it is
invalid\n\t\t\t\ts.crossDomain = true;\n\t\t\t}\n\t\t}\n\n\t\t// Convert data if not already a string\n\t\tif ( s.data &&
s.processData && typeof s.data !== \"string\" ) {\n\t\t\ts.data = jQuery.param( s.data, s.traditional );\n\t\t}\n\n\t\t//
Apply prefilters\n\t\tinspectPrefiltersOrTransports( prefilters, s, options, jqXHR );\n\n\t\t// If request was aborted
inside a prefilter, stop there\n\t\tif ( completed ) {\n\t\t\treturn jqXHR;\n\t\t}\n\n\t\t// We can fire global events as of
now if asked to\n\t\t// Don't fire events if jQuery.event is undefined in an AMD-usage scenario
(#15118)\n\t\tfireGlobals = jQuery.event && s.global;\n\n\t\t// Watch for a new set of requests\n\t\tif ( fireGlobals
&& jQuery.active++ === 0 ) {\n\t\t\tjQuery.event.trigger( \"ajaxStart\" );\n\t\t}\n\n\t\t// Uppercase the
type\n\t\ts.type = s.type.toUpperCase();\n\n\t\t// Determine if request has content\n\t\ts.hasContent =
!rnoContent.test( s.type );\n\n\t\t// Save the URL in case we're toying with the If-Modified-Since\n\t\t// and/or IfNone-Match header later on\n\t\t// Remove hash to simplify url manipulation\n\t\tcacheURL = s.url.replace( rhash,
\"\" );\n\n\t\t// More options handling for requests with no content\n\t\tif ( !s.hasContent ) {\n\n\t\t\t// Remember the
hash so we can put it back\n\t\t\tuncached = s.url.slice( cacheURL.length );\n\n\t\t\t// If data is available and should
be processed, append data to url\n\t\t\tif ( s.data && ( s.processData || typeof s.data === \"string\" ) )
{\n\t\t\t\tcacheURL += ( rquery.test( cacheURL ) ? \"&\" : \"?\" ) + s.data;\n\n\t\t\t\t// #9682: remove data so that it's
not used in an eventual retry\n\t\t\t\tdelete s.data;\n\t\t\t}\n\n\t\t\t// Add or update anti-cache param if needed\n\t\t\tif
( s.cache === false ) {\n\t\t\t\tcacheURL = cacheURL.replace( rantiCache, \"$1\" );\n\t\t\t\tuncached = ( rquery.test(
cacheURL ) ? \"&\" : \"?\" ) + \"_=\" + ( nonce++ ) + uncached;\n\t\t\t}\n\n\t\t\t// Put hash and anti-cache on the
URL that will be requested (gh-1732)\n\t\t\ts.url = cacheURL + uncached;\n\n\t\t// Change '%20' to '+' if this is
encoded form body content (gh-2658)\n\t\t} else if ( s.data && s.processData &&\n\t\t\t( s.contentType || \"\"
).indexOf( \"application/x-www-form-urlencoded\" ) === 0 ) {\n\t\t\ts.data = s.data.replace( r20, \"+\"
);\n\t\t}\n\n\t\t// Set the If-Modified-Since and/or If-None-Match header, if in ifModified mode.\n\t\tif ( s.ifModified
) {\n\t\t\tif ( jQuery.lastModified[ cacheURL ] ) {\n\t\t\t\tjqXHR.setRequestHeader( \"If-Modified-Since\",
jQuery.lastModified[ cacheURL ] );\n\t\t\t}\n\t\t\tif ( jQuery.etag[ cacheURL ] ) {\n\t\t\t\tjqXHR.setRequestHeader(
\"If-None-Match\", jQuery.etag[ cacheURL ] );\n\t\t\t}\n\t\t}\n\n\t\t// Set the correct header, if data is being
sent\n\t\tif ( s.data && s.hasContent && s.contentType !== false || options.contentType )
{\n\t\t\tjqXHR.setRequestHeader( \"Content-Type\", s.contentType );\n\t\t}\n\n\t\t// Set the Accepts header for the

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{\n\tjQuery[ method ] = function( url, data, callback, type ) {\n\n\t\t// Shift arguments if data argument was
omitted\n\t\tif ( isFunction( data ) ) {\n\t\t\ttype = type || callback;\n\t\t\tcallback = data;\n\t\t\tdata =
undefined;\n\t\t}\n\n\t\t// The url can be an options object (which then must have .url)\n\t\treturn jQuery.ajax(
jQuery.extend( {\n\t\t\turl: url,\n\t\t\ttype: method,\n\t\t\tdataType: type,\n\t\t\tdata: data,\n\t\t\tsuccess:
callback\n\t\t}, jQuery.isPlainObject( url ) && url ) );\n\t};\n} );\n\n\njQuery._evalUrl = function( url ) {\n\treturn
jQuery.ajax( {\n\t\turl: url,\n\n\t\t// Make this explicit, since user can override this through ajaxSetup
(#11264)\n\t\ttype: \"GET\",\n\t\tdataType: \"script\",\n\t\tcache: true,\n\t\tasync: false,\n\t\tglobal:
false,\n\t\t\"throws\": true\n\t} );\n};\n\n\njQuery.fn.extend( {\n\twrapAll: function( html ) {\n\t\tvar wrap;\n\n\t\tif (
this[ 0 ] ) {\n\t\t\tif ( isFunction( html ) ) {\n\t\t\t\thtml = html.call( this[ 0 ] );\n\t\t\t}\n\n\t\t\t// The elements to wrap
the target around\n\t\t\twrap = jQuery( html, this[ 0 ].ownerDocument ).eq( 0 ).clone( true );\n\n\t\t\tif ( this[ 0
].parentNode ) {\n\t\t\t\twrap.insertBefore( this[ 0 ] );\n\t\t\t}\n\n\t\t\twrap.map( function() {\n\t\t\t\tvar elem =
this;\n\n\t\t\t\twhile ( elem.firstElementChild ) {\n\t\t\t\t\telem = elem.firstElementChild;\n\t\t\t\t}\n\n\t\t\t\treturn
elem;\n\t\t\t} ).append( this );\n\t\t}\n\n\t\treturn this;\n\t},\n\n\twrapInner: function( html ) {\n\t\tif ( isFunction(
html ) ) {\n\t\t\treturn this.each( function( i ) {\n\t\t\t\tjQuery( this ).wrapInner( html.call( this, i ) );\n\t\t\t}
);\n\t\t}\n\n\t\treturn this.each( function() {\n\t\t\tvar self = jQuery( this ),\n\t\t\t\tcontents = self.contents();\n\n\t\t\tif
( contents.length ) {\n\t\t\t\tcontents.wrapAll( html );\n\n\t\t\t} else {\n\t\t\t\tself.append( html );\n\t\t\t}\n\t\t}
);\n\t},\n\n\twrap: function( html ) {\n\t\tvar htmlIsFunction = isFunction( html );\n\n\t\treturn this.each( function( i )
{\n\t\t\tjQuery( this ).wrapAll( htmlIsFunction ? html.call( this, i ) : html );\n\t\t} );\n\t},\n\n\tunwrap: function(
selector ) {\n\t\tthis.parent( selector ).not( \"body\" ).each( function() {\n\t\t\tjQuery( this ).replaceWith(
this.childNodes );\n\t\t} );\n\t\treturn this;\n\t}\n} );\n\n\njQuery.expr.pseudos.hidden = function( elem ) {\n\treturn
!jQuery.expr.pseudos.visible( elem );\n};\njQuery.expr.pseudos.visible = function( elem ) {\n\treturn !!(
elem.offsetWidth || elem.offsetHeight || elem.getClientRects().length );\n};\n\n\n\n\njQuery.ajaxSettings.xhr =
function() {\n\ttry {\n\t\treturn new window.XMLHttpRequest();\n\t} catch ( e ) {}\n};\n\nvar xhrSuccessStatus =
{\n\n\t\t// File protocol always yields status code 0, assume 200\n\t\t0: 200,\n\n\t\t// Support: IE <=9 only\n\t\t//
#1450: sometimes IE returns 1223 when it should be 204\n\t\t1223: 204\n\t},\n\txhrSupported =
jQuery.ajaxSettings.xhr();\n\nsupport.cors = !!xhrSupported && ( \"withCredentials\" in xhrSupported
);\nsupport.ajax = xhrSupported = !!xhrSupported;\n\njQuery.ajaxTransport( function( options ) {\n\tvar callback,
errorCallback;\n\n\t// Cross domain only allowed if supported through XMLHttpRequest\n\tif ( support.cors ||
xhrSupported && !options.crossDomain ) {\n\t\treturn {\n\t\t\tsend: function( headers, complete ) {\n\t\t\t\tvar
i,\n\t\t\t\t\txhr =
options.xhr();\n\n\t\t\t\txhr.open(\n\t\t\t\t\toptions.type,\n\t\t\t\t\toptions.url,\n\t\t\t\t\toptions.async,\n\t\t\t\t\toptions.u
sername,\n\t\t\t\t\toptions.password\n\t\t\t\t);\n\n\t\t\t\t// Apply custom fields if provided\n\t\t\t\tif ( options.xhrFields
) {\n\t\t\t\t\tfor ( i in options.xhrFields ) {\n\t\t\t\t\t\txhr[ i ] = options.xhrFields[ i ];\n\t\t\t\t\t}\n\t\t\t\t}\n\n\t\t\t\t//
Override mime type if needed\n\t\t\t\tif ( options.mimeType && xhr.overrideMimeType )
{\n\t\t\t\t\txhr.overrideMimeType( options.mimeType );\n\t\t\t\t}\n\n\t\t\t\t// X-Requested-With header\n\t\t\t\t// For
cross-domain requests, seeing as conditions for a preflight are\n\t\t\t\t// akin to a jigsaw puzzle, we simply never set
it to be sure.\n\t\t\t\t// (it can always be set on a per-request basis or even using ajaxSetup)\n\t\t\t\t// For samedomain requests, won't change header if already provided.\n\t\t\t\tif ( !options.crossDomain && !headers[ \"XRequested-With\" ] ) {\n\t\t\t\t\theaders[ \"X-Requested-With\" ] = \"XMLHttpRequest\";\n\t\t\t\t}\n\n\t\t\t\t// Set
headers\n\t\t\t\tfor ( i in headers ) {\n\t\t\t\t\txhr.setRequestHeader( i, headers[ i ] );\n\t\t\t\t}\n\n\t\t\t\t//
Callback\n\t\t\t\tcallback = function( type ) {\n\t\t\t\t\treturn function() {\n\t\t\t\t\t\tif ( callback )
{\n\t\t\t\t\t\t\tcallback = errorCallback = xhr.onload =\n\t\t\t\t\t\t\t\txhr.onerror = xhr.onabort = xhr.ontimeout
=\n\t\t\t\t\t\t\t\t\txhr.onreadystatechange = null;\n\n\t\t\t\t\t\t\tif ( type === \"abort\" )
{\n\t\t\t\t\t\t\t\txhr.abort();\n\t\t\t\t\t\t\t} else if ( type === \"error\" ) {\n\n\t\t\t\t\t\t\t\t// Support: IE <=9
only\n\t\t\t\t\t\t\t\t// On a manual native abort, IE9 throws\n\t\t\t\t\t\t\t\t// errors on any property access that is not
readyState\n\t\t\t\t\t\t\t\tif ( typeof xhr.status !== \"number\" ) {\n\t\t\t\t\t\t\t\t\tcomplete( 0, \"error\" );\n\t\t\t\t\t\t\t\t}
else {\n\t\t\t\t\t\t\t\t\tcomplete(\n\n\t\t\t\t\t\t\t\t\t\t// File: protocol always yields status 0; see #8605,
#14207\n\t\t\t\t\t\t\t\t\t\txhr.status,\n\t\t\t\t\t\t\t\t\t\txhr.statusText\n\t\t\t\t\t\t\t\t\t);\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t} else

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function() {

			if ( !responseContainer ) {
				jQuery.error( callbackName + " was not called"
		}

		// Use data converter to retrieve json after script execution
		s.converters[ "scriptjsonp" ] = ( s.jsonp !== false ) {
			s.url += ( rquery.test( s.url ) ? "&" : "?" ) + s.jsonp + "=" +
		if ( jsonProp ) {
			s[ jsonProp ] = s[ jsonProp ].replace( rjsonp, "$1" + callbackName );
		} else if ( s.jsonpCallback ) ?
			s.jsonpCallback() :
			s.jsonpCallback;

		// Insert callback into url or form
		callbackName = s.jsonpCallback = isFunction(
			"jsonp" or we have a parameter to set
	if ( jsonProp || s.dataTypes[ 0 ] === "jsonp" ) {

		// Get callback
			typeof s.data === "string" &&
				( s.contentType || "" )
					.indexOf( "application/x-www-form-

// Default jsonp settings
jQuery.ajaxSetup( { jsonp: "callback", jsonp:Callback: function() { [jsonp] } });

// Use data converter to retrieve json after script execution
s.converters[ "script jsonp" ] = function() { [responseContainer] }
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```javascript
\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n```

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handler to the same of original handler, so it can be removed

```javascript
jQuery.proxy = function( fn, thisp, options ) {
  var context = thisp || jQuery, callback = map[ thisp ];

  if ( options && typeof options === 'object' ) {
    context = thisp = options.context;
    callback = options.callback;
  } 

  if ( typeof callback === 'function' ) {
    options = options ? options.pure : false;
    callback = ( !callback.noConflict && typeof callback === 'function' )
            ? callback : jQuery.proxy(callback, context);
  }

  if ( !callback ) return this;

  context = context && (context = context instanceof jQuery ? context[0] : context)

  var fnProxy = function() {
    options && !options.pure && thisp = thisp || map[ this ];
    return callback.apply( context, arguments );
  };

  fnProxy.guid = fn.guid = fn.guid ||

  jQuery.proxy.proxyFn = jQuery.proxy;

  fnProxy.proxyFn = fnProxy;

  fnProxy.guid = fn.guid;

  fnProxy.proxyFn = fnProxy;

  return fnProxy;
}

jQuery.proxy.apply = function( fn, args ) {
  return new fn( args );
}
```

	return proxy;
};

jQuery.holdReady = function( hold ) {
	if ( hold ) {
		jQuery.readyWait++;
	} else {
		jQuery.ready( true );
	}
};

```
jQuery.isArray = Array.isArray;
jQuery.parseJSON = JSON.parse;
jQuery.nodeName = nodeName;
jQuery.isFunction = isFunction;
```

jQuery.now = Date.now;

```javascript
jQuery.isNumeric = function( obj ) {

	// As of jQuery 3.0, isNumeric is limited to strings and numbers (primitives or objects) that can be coerced to finite numbers (gh-2662)
	var type = jQuery.type( obj ) 
	return ( type === 'number' || type === 'string' ) 
	&& !isNaN( obj - parseFloat( obj ) )

	// subtraction forces infinities to NaN
	// parses Float NaNs numeric-cast false positives ("\n"")
	// ...but misinterprets leading-number strings, particularly hex literals ("0x..\"")
	// register as a named AMD module, since jQuery can be concatenated with other
	// files that may use define, but not via a proper concatenation script that
	// understands anonymous AMD modules. A named AMD is safest and most robust
	// way to register. Lowercase jquer is used because AMD module names are
	// derived from file names, and jQuery is normally delivered in a lowercase
	// file name. Do this after creating the global so that if an AMD module wants
	// to call noConflict to hide this version of jQuery, it will work.

	// Note that for maximum portability, libraries that are not jQuery should
	// declare themselves as anonymous modules, and avoid setting a global
	// if an AMD loader is present. jQuery is a special case. For more information,
	// see

	//Register as a named AMD module, since jQuery can be concatenated with other

```
var
```

```
// Map over jQuery in case of overwrite
	_jQuery = window.jQuery,

```

```
// Map over the $ in case of overwrite
	_$ = window.$;
```

jQuery.noConflict = function( deep ) {
  if ( window.$ === jQuery ) {
		window.$ = _$;
	}

  if ( deep && window.jQuery === jQuery ) {
		window.jQuery = _jQuery;
	}

  return jQuery;
};
```

```
// Expose jQuery and $ identifiers, even in AMD
// (#7102#comment:10,
// https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon)
// and CommonJS for browser emulators (#13566)

if ( typeof define === "function" && define.amd ) {
	define( ["jquery"], [], function() {
		return jQuery;
	} );
}
```

```
var
```

```
// function

```
function webpackContext(req) {
	var id = webpackContextResolve(req);
	return __webpack_require__(id);
}
function webpackContextResolve(req) {
	var id = map[req];
	if(!(id + 1)) { // check for number or string
		var e = new Error("Cannot find module '" + req + "'");
		e.code = 'MODULE_NOT_FOUND';
		throw e;
	}
	return id;
}
```

```
webpackContext.keys = function webpackContextKeys() {
	return Object.keys(map);
};
```

```
webpackContext.resolve = webpackContextResolve;
```

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```
```
isObjectLike(value) { return value != null && typeof value == 'object'; }
ctx(port.postMessage, port, 1); // Browsers with postMessage, skip WebWorkers
  // IE8 has postMessage, but it's sync & typeof its postMessage is 'object' } else if (global.addEventListener && typeof postMessage == 'function' && !global.importScripts) { defer = function (id) { global.postMessage(id + '', '*');
  // Browsers with postMessage, skip WebWorkers
  // IE8 has postMessage, but
typeof its postMessage is 'object'
  } else if (ONREADYSTATECHANGE in global) { defer = function (id) { html.appendChild(cel('script'))[ONREADYSTATECHANGE] = function () { html.htmlRemoveChild(this); run.call(id); }; } // Rest old browsers } else { defer = function (id) { setTimeout(ctx(run, id, 1), 0); }; } module.exports = { set: setTask, clear: clearTask, /*
 * Checks if `value` is the
 * language type
 */

**
 * @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;

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2;

/** `Object#toString` 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]';

var arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]';

/** Used to convert symbols to primitives and strings. */
var symbolProto = Symbol ? Symbol.prototype : undefined,
    symbolValueOf = symbolProto ? symbolProto.valueOf : undefined;

/**
 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`. (e.g. arrays, functions, objects, regexes, `new Number(0)`
 * and `new String('')`) *param * value The value to check.
 * @returns {boolean} Returns `true` if `value` is an object, else
 * `false`. *param * example
 * _isObject({});
 * * // => true
 * _isObject([1, 2, 3]);
 * * // => true
 */

function _isObject(_noop) { return true;
 * * // function isObject(value) { var type = typeof value;
 * * return value != null && (type == 'object' || type == 'function');
 * }
 * var Symbol = require('Symbol'),
 * Uint8Array = require('Uint8Array'),
 * eq = require('eq'),
 * equalArrays = require('_equalArrays'),
 * mapToArray = require('_mapToArray'),
 * setToArray = require('_setToArray');
 * * *** Used to compare bitmasks for value comparisons. *var

// Browsers with postMessage, skip WebWorkers
  // IE8 has postMessage, but
typeof its postMessage is 'object'
  } else if (ONREADYSTATECHANGE in global) { defer = function (id) { html.appendChild(cel('script'))[ONREADYSTATECHANGE] = function () { html.htmlRemoveChild(this); run.call(id); }; } // Rest old browsers } else { defer = function (id) { setTimeout(ctx(run, id, 1), 0); }; } module.exports = { set: setTask, clear: clearTask, /*
 * Checks if `value` is the
 * language type
 */

**
 * @static
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 * @param {*} value The value to check.
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 * `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;

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1,
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    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]';

/** Used to convert symbols to primitives and strings. */
var symbolProto = Symbol ? Symbol.prototype : undefined,
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 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`. (e.g. arrays, functions, objects, regexes, `new Number(0)`
 * and `new String('')`) *param * value The value to check.
 * @returns {boolean} Returns `true` if `value` is an object, else
 * `false`. *param * example
 * _isObject({});
 * * // => true
 * _isObject([1, 2, 3]);
 * * // => true
 */

function _isObject(_noop) { return true;
 * * // function isObject(value) { var type = typeof value;
 * * return value != null && (type == 'object' || type == 'function');
 * }
 * var Symbol = require('Symbol'),
 * Uint8Array = require('Uint8Array'),
 * eq = require('eq'),
 * equalArrays = require('_equalArrays'),
 * mapToArray = require('_mapToArray'),
 * setToArray = require('_setToArray');
 * * *** Used to compare bitmasks for value comparisons. *var

var openSourceUsedInSMI20210104Ap20226932
var apply = require('./_apply');

/* Built-in method references for those with the same name as other `lodash` methods. */
var nativeMax = Math.max;

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);
  };
}

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;
}

var is = isObject(document) && isObject(document.createElement);
module.exports = function (it) {
  return is ? document.createElement(it) : {};
};

var memoize = require('./memoize');

/**
 * 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;
}

var nativeMap = require('./_nativeMap');

/**
 * Gets the map value for `key`.
 *
 * @private
 * @name get
 * @memberOf MapCache
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the entry value.
 */
function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;

var root = require('./_root');

/** Built-in value references. */
var Uint8Array = root.Uint8Array;

module.exports = Uint8Array;

var getMapData = require('./_getMapData');

/**
 * Gets the map value for `key`.
 *
 * @private
 * @name get
 * @memberOf MapCache
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the entry value.
 */
function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;

var nativeCreate = require('fb');

var prefix = 'fab';
var iconName = 'linkedin';
var width = 448;
var height = 512;
var ligatures = [];
var unicode = 'f08c';
var svgPathData = 'M416 32H31.9C14.3 32 0 46.5 0 64.3V383.4C0 465.5 14.3 480 31.9 480H416c17.6 0 32-14.5 32-32.3V64.3c0-17.8-14.4-32.3-32-32.3zM135.4 416H69V202.2h66.4V416zm-33.2-243c-21.2 0-38.5-17.2-38.5-38.5S80.9 96 102.2 96c21.2 0 38.5 17.2 38.5 38.5 0 21.3-17.2 38.5 38.5 38.5 38.5 38.5m282.1 243h-66.4V312c0-24.8-.5-56.7-34.5-56.7-34.6 0-39.9 27-39.9 54.9V416h-66.4V202.6h9c8.9-16.8 30.6-34.5 62.9-34.5 67.2 0 79.7 44.3 79.7 101.9V416z';

exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [{
    width, 
    height, 
    ligatures, 
    unicode, 
    svgPathData }
      ];

exports.faLinkedin = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;

var isObject = require('./_is-object');
var document = require('./_global').document;
// typeof document.createElement is 'object' in old IE
var is = isObject(document) && isObject(document.createElement);
module.exports = function (it) {
  return is ? document.createElement(it) : {};
};

var memoize = require('./memoize');

/** 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;
}

var baseFor = require('./_baseFor'),
    keys = require('./keys');

/**
 * The base implementation of `_.forOwn` without support
 * for iteratee shorthands.
 *
 * @private
 * @param {Object} object The object to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Object} Returns `object`.
 */
function baseForOwn(object, iteratee) {
  return object && baseFor(object, iteratee, keys);
}

module.exports = baseForOwn;

var nativeCreate = require('./_nativeCreate');

/**
 * Used to stand-in for `undefined` hash values.
 */
var HASH_UNDEFINED = undefined;

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'__lodash_hash_undefined__';\n\n/**\n * Sets the hash `key` to `value`.\n *\n * @private\n * @name set\n *
@memberOf Hash\n * @param {string} key The key of the value to set.\n * @param {*} value The value to set.\n *
@returns {Object} Returns the hash instance.\n */\nfunction hashSet(key, value) {\n var data = this.__data__;\n
this.size += this.has(key) ? 0 : 1;\n data[key] = (nativeCreate && value === undefined) ? HASH_UNDEFINED :
value;\n return this;\n}\n\nmodule.exports = hashSet;\n","var baseGetTag = require('./_baseGetTag'),\n
isObjectLike = require('./isObjectLike');\n\n/** `Object#toString` result references. */\nvar argsTag = '[object
Arguments]';\n\n/**\n * The base implementation of `_.isArguments`.\n *\n * @private\n * @param {*} value The
value to check.\n * @returns {boolean} Returns `true` if `value` is an `arguments` object,\n */\nfunction
baseIsArguments(value) {\n return isObjectLike(value) && baseGetTag(value) == argsTag;\n}\n\nmodule.exports
= baseIsArguments;\n","exports.f = Object.getOwnPropertySymbols;\n","var arrayEvery =
require('./_arrayEvery'),\n baseEvery = require('./_baseEvery'),\n baseIteratee = require('./_baseIteratee'),\n
isArray = require('./isArray'),\n isIterateeCall = require('./_isIterateeCall');\n\n/**\n * Checks if `predicate` returns
truthy for **all** elements of `collection`.\n * Iteration is stopped once `predicate` returns falsey. The predicate is\n
* invoked with three arguments: (value, index|key, collection).\n *\n * **Note:** This method returns `true` for\n *
[empty collections](https://en.wikipedia.org/wiki/Empty_set) because\n * [everything is
true](https://en.wikipedia.org/wiki/Vacuous_truth) of\n * elements of empty collections.\n *\n * @static\n *
@memberOf _\n * @since 0.1.0\n * @category Collection\n * @param {Array|Object} collection The collection to
iterate over.\n * @param {Function} [predicate=_.identity] The function invoked per iteration.\n * @param{Object} [guard] Enables use as an iteratee for methods like `_.map`.\n * @returns {boolean} Returns `true` if all
elements pass the predicate check,\n * else `false`.\n * @example\n *\n * _.every([true, 1, null, 'yes'], Boolean);\n *
// => false\n *\n * var users = [\n * { 'user': 'barney', 'age': 36, 'active': false },\n * { 'user': 'fred', 'age': 40, 'active':
false }\n * ];\n *\n * // The `_.matches` iteratee shorthand.\n * _.every(users, { 'user': 'barney', 'active': false });\n * //
=> false\n *\n * // The `_.matchesProperty` iteratee shorthand.\n * _.every(users, ['active', false]);\n * // => true\n
*\n * // The `_.property` iteratee shorthand.\n * _.every(users, 'active');\n * // => false\n */\nfunction
every(collection, predicate, guard) {\n var func = isArray(collection) ? arrayEvery : baseEvery;\n if (guard &&
isIterateeCall(collection, predicate, guard)) {\n predicate = undefined;\n }\n return func(collection,
baseIteratee(predicate, 3));\n}\n\nmodule.exports = every;\n","/**\n * The base implementation of `_.hasIn` without
support for deep paths.\n *\n * @private\n * @param {Object} [object] The object to query.\n * @param
{Array|string} key The key to check.\n * @returns {boolean} Returns `true` if `key` exists, else `false`.\n
*/\nfunction baseHasIn(object, key) {\n return object != null && key in Object(object);\n}\n\nmodule.exports =
baseHasIn;\n","var classof = require('./_classof');\nvar ITERATOR = require('./_wks')('iterator');\nvar Iterators =
require('./_iterators');\nmodule.exports = require('./_core').getIteratorMethod = function (it) {\n if (it != undefined)
return it[ITERATOR]\n || it['@@iterator']\n || Iterators[classof(it)];\n};\n","// @@split logic\nrequire('./_fix-rewks')('split', 2, function (defined, SPLIT, $split) {\n 'use strict';\n var isRegExp = require('./_is-regexp');\n var
_split = $split;\n var $push = [].push;\n var $SPLIT = 'split';\n var LENGTH = 'length';\n var LAST_INDEX =
'lastIndex';\n if (\n 'abbc'[$SPLIT](/(b)*/)[1] == 'c' ||\n 'test'[$SPLIT](/(?:)/, -1)[LENGTH] != 4 ||\n
'ab'[$SPLIT](/(?:ab)*/)[LENGTH] != 2 ||\n '.'[$SPLIT](/(.?)(.?)/)[LENGTH] != 4 ||\n
'.'[$SPLIT](/()()/)[LENGTH] > 1 ||\n ''[$SPLIT](/.?/)[LENGTH]\n ) {\n var NPCG = /()??/.exec('')[1] ===
undefined; // nonparticipating capturing group\n // based on es5-shim implementation, need to rework it\n $split
= function (separator, limit) {\n
var string = String(this);\n
if (separator === undefined && limit === 0) return
[];\n
// If `separator` is not a regex, use native split\n
if (!isRegExp(separator)) return _split.call(string,
separator, limit);\n
var output = [];\n
var flags = (separator.ignoreCase ? 'i' : '') +\n
(separator.multiline ? 'm' : '') +\n
(separator.unicode ? 'u' : '') +\n
(separator.sticky ? 'y' : '');\n
var lastLastIndex = 0;\n
var splitLimit = limit === undefined ? 4294967295 : limit >>> 0;\n
// Make `global`
and avoid `lastIndex` issues by working with a copy\n
var separatorCopy = new RegExp(separator.source, flags
+ 'g');\n
var separator2, match, lastIndex, lastLength, i;\n
// Doesn't need flags gy, but they don't hurt\n
if
(!NPCG) separator2 = new RegExp('^' + separatorCopy.source + '$(?!\\\\s)', flags);\n
while (match =
separatorCopy.exec(string)) {\n
// `separatorCopy.lastIndex` is not reliable cross-browser\n
lastIndex =

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resolve the decompiled source of functions. */

```javascript
var funcToString = funcProto.toString;

/**
 * Used to check objects for own properties.
 * @private
 * @param {Object} object The object to query.
 * @returns {boolean} Returns `true` if the value is a native function, `false` otherwise.
 */
function hasOwnProperty(object) {
  if (object != null)
    return object.hasOwnProperty.call(object);
  return false;
}

/**
 * Gets the value at `key` of `object`.
 * @private
 * @param {Object} object The object to query.
 * @param {string} key The key of the property to get.
 * @returns {any} Returns the property value.
 */
function getValue(object, key) {
  return object[key];
}

/**
 * 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;
}
```

```javascript
// 21.2.5.3 get RegExp.prototype.flags()
if (require('./_descriptors') && /./g.flags != 'g')
  require('./_object-dp').f(RegExp.prototype, 'flags', {
    configurable: true,
    get: require('./_flags')
  });

// 19.1.2.9 / 15.2.3.2 Object.getPrototypeOf(O)
var has = require('./_has');

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;
};
```

```javascript
var getNative = require('./_getNative');

module.exports = createCommonjsModule(function(module) {

  function createCommonjsModule(fn, module) {
    module.exports = fn(module, module.exports);
  }
```

```javascript
vue-headroom

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```
getNanoSeconds();

upTime = process.uptime() * 1e9;

nodeLoadTime = moduleLoadTime - upTime;

loadTime = Date.now();

if (Date.now) {
  module.exports = function() {
    return Date.now() - loadTime;
  };
  loadTime = Date.now();
}

upTime = process.uptime() * 1e9;

nodeLoadTime = moduleLoadTime - upTime;

loadTime = new Date().getTime();

var root = typeof window === 'undefined' ? commonjsGlobal : window,
    vendors = ['moz', 'webkit'],
    suffix = 'AnimationFrame',
    caf = root['cancel'][suffix],
    rootCancelRequest = root['cancelRequest'][suffix],
    raf = root['requestAnimationFrame'],
    caf = root[vendors[0] + 'Cancel' + suffix],
    moduleLoadTime = commonjsGlobal('module.exports() * 1e9');

for(var i = 0; !raf && i < vendors.length; i++) {
  raf = root[vendors[i] + 'Request' + suffix];
  caf = root[vendors[i] + 'Cancel' + suffix];
}

if(!raf) {
  var last = 0,
      id = 0;

  raf = function(callback) {
    if(queue.length === 0) {
      var _now = performanceNow(),
          next = Math.max(0, frameDuration - (_now - last));
      last = next + _now;
      setTimeout(function() {
        var cp = queue.slice(0);
        // Clear queue here to prevent
        // callbacks from appending listeners
        // to the current frame's queue
        queue.length = 0;
        for(var i = 0; i < cp.length; i++) {
          if(!cp[i].cancelled) {
            try{
              cp[i].callback(last);
            } catch(e) {
              setTimeout(function() { throw e }, 0);
            }
          }
        }
      }, Math.round(next));
    }
    queue.push({
      handle: ++id,
      callback: callback,
      cancelled: false
    });
    return id
  };

  caf = function(handle) {
    for(var i = 0; i < queue.length; i++) {
      if(queue[i].handle === handle) {
        queue[i].cancelled = true;
      }
    }
  };
}

raf_1 = function(fn) {
  return raf.call(root, fn);
};

cancel = function() {
  caf.apply(root, arguments);
};

polyfill = function(object) {
  if(!object) {
    object = root;
  }
  object.requestAnimationFrame = raf;
  object.cancelAnimationFrame = caf;
};

raf_1.cancel = cancel;
raf_1.polyfill = polyfill;

checkActions = function(states) {
  var direction = states.currentScrollY >= states.lastScrollY ? 'down' : 'up';
  var distanceScrolled = Math.abs(states.currentScrollY - states.lastScrollY);
  var action;

  if (direction === 'down' && states.currentScrollY >= states.offset && distanceScrolled > states.downTolerance) {
    action = 'unpin';
  } else if (direction === 'up' && distanceScrolled > states.upTolerance || states.currentScrollY <= states.offset) {
    action = 'pin';
  }

  return action;
};

supports3d = function() {
  var div = document.createElement('div');
  var ret = false;
  var properties = ['perspectiveProperty', 'WebkitPerspective'];

  for (var i = properties.length - 1; i >= 0; i--) {
    ret = ret ? ret : div.style[properties[i]] !== undefined;
  }

  if (ret) {
    var st = document.createElement('style');
    st.textContent = '#modernizr{width:0;height:0} @media (transform-3d),(-webkit-transform-3d){#modernizr{width:7px;height:18px;margin:0;padding:0;border:0}}';
    document.getElementsByTagName('head')[0].appendChild(st);
    div.id = 'modernizr';
    document.body.appendChild(div);
    ret = div.offsetWidth === 7 && div.offsetHeight === 18;
    st.parentNode.removeChild(st);
    div.parentNode.removeChild(div);
  }

  return ret;
};

document.getElementsByClassName('head')[0].appendChild(child);

div.id = 'modernizr';

document.body.appendChild(div);

ret = div.offsetWidth === 7 && div.offsetHeight === 18;

st.parentNode.removeChild(child);

div.div.parentNode.removeChild(div);
```javascript
isSupport3d: false

props: {
  scroller: {
    type: Function,
    default: function _default() {
      return window;
    }
  },
  disabled: {
    type: Boolean,
    default: false
  },
  upTolerance: {
    type: Number,
    default: 5
  },
  downTolerance: {
    type: Number,
    default: 0
  },
  speed: {
    type: Number,
    default: 250
  },
  easing: {
    type: String,
    default: 'ease-in-out'
  },
  zIndex: {
    type: Number,
    default: 9999
  },
  onPin: Function,
  onUnpin: Function,
  onTop: Function,
  onNotTop: Function,
  onBottom: Function,
  onNotBottom: Function,
  offset: {
    type: Number,
    default: 0
  },
  classes: {
    type: Object,
    default: function _default() {
      return defaultCls;
    }
  },
  footprint: {
    type: Boolean,
    default: false
  },
  watch: {
    type: Boolean,
    default: function disabled(newVal) {
      if (newVal) {
        this.scroller().removeEventListener('scroll', this._handleScroll);
      } else {
        this.scroller().addEventListener('scroll', this._handleScroll);
      }
    }
  },
  isSupport3d: supports3d();
}

computed: {
  style: function () {
    var styles = {
      'position': this.isInTop ? 'fixed' : 'relative',
      'top': 0,
      'right': 0,
      'z-index': this.isInTop ? this.zIndex : 1
    };
    if (this.footroom) {
      styles = _extends({}, styles, {'top': 'unset', 'bottom': 0});
    }
    // SSR cannot detect scroll position. To prevent flash when component mounted, call
    handleScroll to set initial state.
    this._handleScroll();
    if (this.isUnpinned) {
      this.beforeDestroy();
    }
    return styles;
  },
  classes: {
    type: Object,
    default: function _default() {
      return defaultCls;
    }
  },
  _getScrollY: function _getScrollY() {
    var top = void 0;
    if (this.scroller().pageYOffset !== undefined) {
      top = this.scroller().pageYOffset;
    } else if (this.scroller().scrollTop !== undefined) {
      top = this.scroller().scrollTop;
    }
    return Math.max(top - this.offset, 0);
  },
  _handleScroll: function _handleScroll() {
    raf_1(this.update);
    this._getScrollerHeight();
    var pastTop = currentScrollY < 0;
    var pastBottom = currentScrollY > 0;
    var scrollerPhysicalHeight = this._getScrollerPhysicalHeight();
    var scrollerHeight = this._getScrollerHeight();
    var var parent = this.scroller();
    var return parent === window ? parent === document.body ? this._getViewportHeight() :
    this._getElementHeight('
    function _getViewportHeight() {
      return Math.max(elm.offsetHeight, elm.clientHeight);
    };
    function _getElementHeight() {
      var body = document.body;
      var var documentElement = document.documentElement;
      return Math.max(body.scrollHeight, documentElement.scrollHeight,
      body.offsetHeight, documentElement.offsetHeight, body.clientHeight,
      documentElement.clientHeight);
    };
    function _getScrollerPhysicalHeight() {
      var parent = this.scroller();
      }
      return top;
    },
    update: function
```
update() { 

  this.currentScrollY = this._getScrollY();

  if (this.isOutOfBound(this.currentScrollY)) {
    return;
  }

  if (this._isOutOfBound(this.currentScrollY + this._getViewportHeight()) ||
      this.top() ||
      this.notTop()) {
    return;
  }

  if (this.currentScrollY <= this.offset) {
    this.top();
  } else {
    this.notTop();
  }

  if (this.currentScrollY + this._getViewportHeight() >= this._getScrollerHeight()) {
    this.bottom();
  } else {
    this.notBottom();
  }

  var action = checkActions(this);

  if (action === 'pin') {
    this.pin();
  } else if (action === 'unpin') {
    this.unpin();
  }

  this.lastScrollY = this.currentScrollY;

  this.translate = 0;
  setTimeout(function () {
    this.state = 'pinned';
  }, 0);

  this.unpin: function unpin() {
    if (this.isPinned || !this.isUnpinned) {
      this.isUnpinned = true;
      this.isPinned = false;
      this.onUnpin && this.onUnpin();
      this.$emit('unpin');
      this.translate = this.footroom ? '100%' : '-100%';
      setTimeout(function () {
        this.state = 'unpinned';
      }, 0);
    }
  }

  this.pin: function pin() {
    var _this = this;

    if (!this.isPinned) {
      this.isPinned = true;
      this.isUnpinned = false;
      this.onPin && this.onPin();
      this.$emit('pin');
      this.translate = 0;
      setTimeout(function () {
        _this.state = 'pinned';
      }, 0);
    }
  }

  this.top: function top() {
    if (!this.isTop) {
      this.isTop = true;
      this.isNotTop = false;
      this.onTop && this.onTop();
    }
  }

  this.notTop: function notTop() {
    if (!this.isNotTop) {
      this.isTop = false;
      this.isNotTop = true;
      this.onNotTop && this.onNotTop();
    }
  }

  this.bottom: function bottom() {
    if (!this.isBottom) {
      this.isBottom = true;
      this.isNotBottom = false;
      this.onBottom && this.onBottom();
    }
  }

  this.notBottom: function notBottom() {
    if (!this.isNotBottom) {
      this.isBottom = false;
      this.isNotBottom = true;
      this.onNotBottom && this.onNotBottom();
    }
  }

  var install = function install(Vue) {
    if (install.installed) {
      return;
    }

    Vue.component(headroom.name, headroom);
  }

  if (typeof window !== 'undefined' && window.Vue) {
    install(window.Vue);
  }

  var index = {
    headroom: headroom,
    install: install
  };
function(getTag) {  
    var result = baseGetTag(value),
    Ctor = result == objectTag ? value.constructor :
        undefined,
    ctorString = Ctor ? toSource(Ctor) : undefined;

    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;

function nextTick(fn) {
    setTimeout(fn, 0);
}

exports.nextTick = function nextTick(fn) {
    setTimeout(fn, 0);
};

exports.platform = exports.arch = exports.execPath = exports.title =
    'browser';
exports.pid = 1;
exports.browser = true;
exports.env = {};
exports.argv = [];

exports.binding = function (name) {
    throw new Error('No such module. (Possibly not yet loaded)')
};

(function () {
    var cwd = '/';
    var path;
    exports.cwd = function () { return cwd };
    exports.chdir = function (dir) {
        if (!path)
            path = require('path');
        cwd = path.resolve(dir, cwd);
    };

    exports.exit = exports.kill =
    exports.umask = exports.dlopen =
    exports.uptime = exports.memoryUsage =
    exports.jsonCount = function() {};
    exports.features = {};

    /**
     * Gets the last element of `array`.
     *
     * @static
     * @memberOf _
     * @since 0.1.0
     * @category Array
     * @param {Array} array The array to query.
     * @returns {*} Returns the last
     * element of `array`.
     * @example
     *
     * _.last(
     *   [1, 2, 3, 4]
     * );
     * // => 4
     */
    function last(array) {
        var length = array == null ? 0 : array.length;
        return length ? array[length - 1] : undefined;
    }

    module.exports = last;

    // 19.1.2.14 Object.keys(O)
    var toObject = require('./_to-object');
    var $keys = require('./_object-keys');

    require('./_object-sap')('keys', function () {
        return function keys(it) {
            return $keys(toObject(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);
    };

    module.exports = function (bitmap, value) {
        return {
            enumerable: !(bitmap & 1),
            configurable: !(bitmap & 2),
            writable: !(bitmap & 4),
            value: value
        };
    };

    var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

    /**
     * The base implementation of `_.forEach` without support for iteratee shorthands.
     *
     * @private
     * @name each
     * @memberOf _
     * @category Array
     * @param {Array|Object} collection The collection to iterate over.
     * @param {Function} iteratee The function invoked per
     * iteration.
     * @returns {Array|Object} Returns `collection`.
     */
    var baseEach = createBaseEach(baseForOwn);

    module.exports = baseEach;

    // @@match logic
    require('./_fix-re-wks')('match', 1, function (defined, MATCH, $match) {
        // 21.1.3.11 String.prototype.match(regexp)
        var fn = function(match(regexp) {
            'use strict';
            var O = defined(this);
            var fn = regexp == undefined ? undefined :
                regexp[MATCH];
            return fn !== undefined
                ? fn.call(regexp, O) : new RegExp(regexp)
                [MATCH](String(O));
        }, $match);
    });

    var nativeCreate = require('./_nativeCreate');

    /**
     * Removes all key-value entries from the
     * hash.
     *
     * @private
     * @name clear
     * @memberOf Hash
     */
    function hashClear() {
        this.__data__ = nativeCreate ? nativeCreate(null) : {};
        this.size = 0;
    }

    module.exports = hashClear;

    var ctx = require('./_ctx');
    var call = require('./_iter-call');
    var isArrayIter = require('./_is-array-iter');
    var anObject = require('./_an-object');
    var toLength = require('./_to-length');
    var getIterFn = require('./core.get-iterator-method');
    var BREAK = {};
    var RETURN = {};

    module.exports = function (iterable, entries, fn,
        that, ITERATOR) {
        var iterFn = ITERATOR ? function () { return iterable; } : getIterFn(iterable);
        var f = ctx(fn, that, entries ? 2 : 1);
        var index = 0;
        var length, step, iterator, result;
        if (typeof iterFn != 'function')
            throw TypeError(iterable + ' is not iterable!');
        // fast case for arrays with default iterator
        if (isArrayIter(iterFn))
            for (length = toLength(iterable.length); length > index; index++) {
                result = entries ? f(anObject(step = iterable[index]) [0], step[1]) :
                    f(iterable[index]);
                if (result === BREAK || result === RETURN) return result;
            }
        else for (iterator = iterFn.call(iterable); !(step = iterator.next()).done;) {
            result = call(iterator, f, step.value, entries);
            if (result === BREAK || result === RETURN) return result;
        }
    };
shorthands\n* or max array length checks.\n* @private\n* @param {number} n The number of times to invoke `iteratee`.\n* @param {Function} iteratee The function invoked per iteration.\n* @returns {Array} Returns the array of results.\n*/

function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

module.exports = baseTimes;

/*!
* vue-social-sharing v2.3.3
* (c) 2017 nicolasbeauvais
* Released under the MIT License.
*/

function _interopDefault (ex) { return (ex && (typeof ex === 'object') && 'default' in ex) ? ex['default'] : ex; }

var Vue = _interopDefault(require('vue'));

var SocialSharingNetwork = {
  functional: true,
  props: {
    network: {
      type: String,
      default: ''
    }
  },

  render: function (createElement, context) {
    var network = context.parent._data.baseNetworks[context.props.network];

    if (!network) {
      return console.warn("Network " + (context.props.network) + " does not exist");
    }

    return createElement(context.parent.networkTag, {
      staticClass: context.data.staticClass || null,
      staticStyle: context.data.staticStyle || null,
      class: context.data.class || null,
      style: context.data.style || null,
      attrs: {
        id: context.data.attrs.id || null,
        'data-link': network.type === 'popup'
          ? '#share-' + context.props.network
          : context.parent.createSharingUrl(context.props.network),
        'data-action': network.type === 'popup' ? null : network.action
      },
      on: {
        click: network.type === 'popup' ? function () {
          context.parent.share(context.props.network);
        } : function () {
          context.parent.touch(context.props.network);
        }
      }
    }, context.children);
  }
};

var email = {"sharer":"mailto:?subject=@title&body=@url%0D%0A%0D%0A@description","type":"direct"};
var facebook = {"sharer":"https://www.facebook.com/sharer/sharer.php?u=@url&title=@title&description=@description&quote =@quote","type":"popup"};
var googleplus = {"sharer":"https://plus.google.com/share?url=@url","type":"popup"};
var line = {"sharer":"http://line.me/R/msg/text/?@description%0D%0A@url","type":"popup"};
var linkedin = {"sharer":"https://www.linkedin.com/shareArticle?mini=true&url=@url&title=@title&summary=@description","type":"popup"};
var odnoklassniki = {"sharer":"https://connect.ok.ru/dk?st.cmd=WidgetSharePreview&st.shareUrl=@url&st.comments=@description","type":"popup"};
var pinterest = {"sharer":"https://pinterest.com/pin/create/button/?url=@url&media=@media&description=@title","type":"popup"};
var reddit = {"sharer":"https://www.reddit.com/submit?url=@url&title=@title","type":"popup"};
var skype = {"sharer":"https://web.skype.com/share?url=@url&description%0D%0A@url","type":"popup"};
var telegram = {"sharer":"https://t.me/share/url?url=@url&text=@description","type":"popup"};
var viber = {"sharer":"viber://forward?text=@url @description","type":"direct"};
var vk = {"sharer":"https://vk.com/share.php?url=@url&title=@title&description=@description&image=@media&noparse=true","type":"popup"};
var weibo = {"sharer":"http://service.weibo.com/share.php?url=@url&title=@title","type":"popup"};
var whatsapp = {"sharer":"https://web.whatsapp.com/send?text=@description%0D%0A@url","type":"direct"};
var sms = {"sharer":"sms:?body=@url@description","type":"direct"};

module.exports = {"type": typeof window !== 'undefined'>window ? window : null,"SocialSharing": {"props": {"url": URL.toShare,/*@var string*/"url": {"type": String,default: inBrowser ? window.location.href : ''},"title": {"type": String,default: ''},"Sharing title, if available by network:"},/*@var string*/"title": {"type": String,default: ''},"description": {"type": String,default: ''}}

Open Source Used In SMI 2021.01.0-Apr-2022 6943
* Facebook quote
* @var string
* @an quote: {
*   type: String,
*   default: "",
*   /
* Facebook hashtags
* @var string
* @an hashtags: {
*   type: String,
*   default: "",
*   /
* Facebook user
* @var string
* @an twitterUser: {
*   type: String,
*   default: "",
*   /
* Facebook key
* @var string
* @an googleKey: {
*   type: String,
*   default: ""
*   /
* Facebook mixed
* @var mixed
* withCounts: {
*   type: [String, Boolean],
*   default: false
*   /
* Flag that indicates if counts should be retrieved.
* - NOT WORKING IN CURRENT VERSION
* @var mixed
* withCounts: {
*   type: [String, Boolean],
*   default: false
*   /
* Flag that indicates if counts should be retrieved.

```javascript
$window.screenTop : screen.top;

    var width = $window.innerWidth ? $window.innerWidth : $window.screenLeft : screen.left;
    var dualScreenTop = $window.screenTop !== undefined ? window-on-screen/32261263
     */
    var dualScreenLeft = $window.screenLeft !== undefined ? */

  /**
   * Center the popup on dual screens
   * http://stackoverflow.com/questions/4068373/center-a-popup-
   * popup default dimensions.
   */
  mounted: function mounted () {
    if (!inBrowser) {
      return;
    }

  beforeMount () {
    this.baseNetworks = Vue.util.extend(this.baseNetworks, this.networks);
  },

  /**
   * Merge base networks list with user’s list
   */
  beforeMount: function

  share: function share (network) {
      this.openSharer(network, this.createSharingUrl(network));

...
function arrayEvery(array, predicate) {
  var index = -1,
  length = array == null ? 0 : array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes `key` and its value from the list cache.
 *
 * @private
 * @name delete
 * @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;

// 7.1.1 ToPrimitive(input [, PreferredType])
var isObject = require('./_is-object');
// instead of the ES6 spec version, we didn't implement @@toPrimitive case
// and the second argument - flag - preferred type is a string
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 (!S && 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");
};

/**
 * A specialized version of `_.reduce` 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 all elements pass the predicate check, else `false`.
 */
function arrayEvery(array, predicate) {
  var index = -1,
  length = array == null ? 0 : array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;

*/
* 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
* var assocIndexOf = require('./_assocIndexOf');
* var isArray = Array.isArray;
* module.exports = isArray;
*/

var assocIndexOf = require('./_assocIndexOf');

/**
 * Sets the list cache `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf ListCache
 * @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;

// 7.1.1 ToPrimitive(input [, PreferredType])
var isObject = require('./_is-object');
// instead of the ES6 spec version, we didn't implement
// and the second argument - flag - preferred type is a string
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 (!S && 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");
};

/**
 * A specialized version of `_.reduce` for arrays without support
 * for iteratee shorthands.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @param {*} [accumulator] The initial value.
 * @returns {*} Returns the accumulated value.
 */
function arrayEvery(array, predicate) {
  var index = -1,
  length = array == null ? 0 : array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;

*/
* 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
* var assocIndexOf = require('./_assocIndexOf');
* var isArray = Array.isArray;
* module.exports = isArray;
*/

var assocIndexOf = require('./_assocIndexOf');

/**
 * Sets the list cache `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf ListCache
 * @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;

// 7.1.1 ToPrimitive(input [, PreferredType])
var isObject = require('./_is-object');
// instead of the ES6 spec version, we didn't implement
// and the second argument - flag - preferred type is a string
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 (!S && 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");
};

/**
 * A specialized version of `_.reduce` for arrays without support
 * for iteratee shorthands.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @param {*} [accumulator] The initial value.
 * @returns {*} Returns the accumulated value.
 */
function arrayEvery(array, predicate) {
  var index = -1,
  length = array == null ? 0 : array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;
Open Source Used In SMI 2021.01.0-Apr-2022  6953
null
var classes = {

    'fa-spin': props['spin'] !== false,
    'fa-pulse': props['pulse'] !== false,
    'fa-fast': props['fixedWidth'] !== false,
    'fa-border': props['border'] !== false,
    'fa-li': props['listItem'] !== false,
    'fa-flip-horizontal': props['flip'] === 'horizontal',
    'fa-flip-vertically': props['flip'] === 'vertical',
    'fa-rotate-': props['rotation'] !== false,
    'fa-pull': props['pull'] !== null,
    'fa-border': props['border'] !== false,
    'fa-fixed-width': props['fixedWidth'] !== false,
    'fa-border': props['border'] !== false,
    'fa-li': props['listItem'] !== false,
    'fa-icon-name': iconName
};

var render = function render(createElement, context) {
    console.error('Check not find one or more icon(s)', icon, mask);

    var abstract = renderedIcon.abstract;

    fontawesome.icon(icon, _extends({}, classes, transform, mask, { symbol: symbol }));

    if (!renderedIcon) {
        return 

        if (icon === null) {
            return 

            if (Array.isArray(icon) && icon.length === 2) {
                return {
                    prefix: icon[0],
                    iconName: icon[1]
                };
            }
        }
    }
};

function classList(props) {

    var _classes;

    var classes = (_classes = {
        'fa-spin': props['spin'] !== false,
        'fa-pulse': props['pulse'] !== false,
        'fa-fast': props['fixedWidth'] !== false,
        'fa-border': props['border'] !== false,
        'fa-li': props['listItem'] !== false,
        'fa-flip-horizontal': props['flip'] === 'horizontal',
        'fa-flip-vertically': props['flip'] === 'vertical',
        'fa-rotate-': props['rotation'] !== false,
        'fa-pull': props['pull'] !== null,
        'fa-border': props['border'] !== false,
        'fa-fixed-width': props['fixedWidth'] !== false,
        'fa-border': props['border'] !== false,
        'fa-li': props['listItem'] !== false,
        'fa-icon-name': iconName
    });

    var render = function render(createElement, context) {
        console.error('Check not find one or more icon(s)', icon, mask);

        var abstract = renderedIcon.abstract;

        fontawesome.icon(icon, _extends({}, classes, transform, mask, { symbol: symbol }));

        if (!renderedIcon) {
            return 

            if (icon === null) {
                return 

                if (Array.isArray(icon) && icon.length === 2) {
                    return {
                        prefix: icon[0],
                        iconName: icon[1]
                    };
                }
            }
        }
    };
=== 'string' ? fontawesome.parse.transform(props.transform) : props.transform);

var renderedText = fontawesome.text(props.value, {extends: {}, transform});

var abstract = renderedText.abstract;

var mapCacheHas = require('./_mapCacheHas');

mapCacheHas(['default'], {value: true});

"use strict";

var global = require('./_global');

var MapCache = function MapCache(entries) {
  var index = -1;
  var length = entries == null ? 0 : entries.length;
  var thisCache = this;
  while (++index < length) {
    var entry = entries[index];
    thisCache.set(entry[0], entry[1]);
  }
}

MapCache.prototype.set = function set(key, value) {
  thisCache[key] = value;
};

MapCache.prototype.get = function get(key) {
  return thisCache[key];
};

MapCache.prototype.has = function has(key) {
  return key in thisCache;
};

MapCache.prototype.delete = function delete(key) {
  delete thisCache[key];
};

MapCache.prototype.clear = function clear() {
  thisCache = {length: 0};
};

MapCache.prototype.size = function size() {
  return thisCache.length;
};

MapCache.prototype.forEach = function forEach(callbackfn, thisArg) {
  var index = -1;
  var length = thisCache.length;
  var thisArgs = arguments;
  if (callbackfn.length > 2) {
    callbackfn = bind(callbackfn, thisArgs[1]);
  }
  while (++index < length) {
    callbackfn(thisCache[index], index, thisArgs[0]);
  }
};

module.exports = MapCache;

// Add methods to `MapCache`.
MapCache.prototype.clear = mapCacheClear;
MapCache.prototype.delete = mapCacheDelete;
MapCache.prototype.get = mapCacheGet;
MapCache.prototype.has = mapCacheHas;
MapCache.prototype.set = mapCacheSet;

module.exports = MapCache;
function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new (Map || ListCache),
    'string': new Hash
  };  

  module.exports = mapCacheClear;
}

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`.
 */

function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var data = keysFunc(object);
  return isArray(object) ? data : arrayPush(data, symbolsFunc(object));
}

module.exports = baseGetAllKeys;

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.
 */

function Stack(entries) {
  this.__data__ = new ListCache(entries);
  this.size = this.__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;

/**
 * Adds `value` to the array cache.
 *
 * @private
 * @name add
 * @memberOf SetCache
 * @alias push
 * @param {*} value The value to cache.
 * @returns {Object} Returns the cache instance.
 */

function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;

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 dP = require('./_object-dp').f;
var FProto = Function.prototype;
var nameRE = /^\s*function ([^\s\)]*)/;
var NAME = 'name';

// 19.2.4.2 name
NAME in FProto || require('./_descriptors') && dP(FProto, NAME, {
  configurable: true,
  get: function () {
    try {
      return ('' + this).match(nameRE)[1];
    } catch (e) {
      return'';
    }
  }
});

import mod from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-2!../../node_modules/sass-loader/lib/loader.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./GenericFooter.vue?vue&type=style&index=0&id=203025b4&lang=scss&scoped=true&"; export default mod; export * from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/css-loader!../../node_modules/loader-runner/lib/entryLoader.js!../../node_modules/va...
exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ]};

exports.faFacebook = exports.definition; exports.prefix = prefix; exports.iconName = iconName; exports.width = width; exports.height = height; exports.ligatures = ligatures; exports.unicode = unicode; exports.svgPathData = svgPathData;

"import mod from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-2!../../node_modules/sass-loader/lib/loader.js??ref--8-oneOf-1-3!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./FollowUsPopover.vue?vue&type=style&index=0&id=440d5984&lang=scss&scoped=true&"; export default mod; export * from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-2!../../node_modules/sass-loader/lib/loader.js??ref--8-oneOf-1-3!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./FollowUsPopover.vue?vue&type=style&index=0&id=440d5984&lang=scss&scoped=true&"; module.exports = "data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAIgAAABaCAYAAABjTB52AAAABmJLR0QA/wD/AP+gvaeTAAAACXBIWXMAAAsTAAALEwEAmpwYAAAAB3RJTUUH4gkSEA4ZhpbLcgAABedJREFUeNrtnVtsFFUYgL+Z2d2uoy0NFkLaL1AiJEEwfxECXWNbIUDReXgQiCiaBiqRMv6BNraIIQzQzmGjs+GBCIFwEYeomySwxlgK4V3a3hUm61FHZry+zyXUTSCGB7zpk5y/x/nm/7Pv2e+OWoFmWkOC4EJtAcK33VQs9eEdqZDTI+hCXY+BMqCqBqjs2QYDTq8Dk8BfwHwwofYWu+/R057vwSpd2D1UhrZVugrcZ1VeTugOQsULXAGA9y7wDrCeWW+iIdL5c5hbw2uqncQ+-q+7F+ZFuAFaP6HxdtAqoS3ym9LTran9C6gZWi36e39j6wH4
XqUaNX+FzYcXzjJenuBpVfdKdbbZ9X9P2OhobJUXKmpZaW3goaWeBMq7kMm2n+PwNvIx2H8B1CTHPQ2
DLLgfD0Csg2iEvn3kp3k3Om5OiFeg6jQ0iQowWkpIPKORvDeYmpXr4H9iWhrChctnwwJ3BuLmagn0M6Kgc
YI400a90Yu2RW5rk4wRJB4NWXQ/NqehBhzn6KHMJ0zwVODKublyAyXgQx4sZUtS5eT5yY兴EmHmQ1
hiAuczcQWf8dASBpFxYFRoOrJfPaRZRKUDuiwuYeJcKMGL7OYX8cBe5aUIHjXYuf6nWf68nX+9km+bM
yXLIQKkuBeZDToNvXSE6O3G3A87KzwVrsQeBjcg8SGP+O1W/FrLegeaBvzX7s8jhrBhMKgAbCLMM
4zcCmvMkv+h+nQN2g3ad4T8gggRz6Ea7o7oFDibaba7z6j6F6BXKU+SxIkgwDNbsv0bP2ZnGtuiKIIJESQYKJQF+
Vszbqe/losgAbUlguNUI5JbmeYNEkGQDHQR10asa1iSCFIYgmhKM0yeChEIQ/WGTZxEBEBEEUUQQQQRR
PCkP181W3R0p3bThLCihPoTeLe0C9LFCCkZIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggiiCCCIKIIugggii
// 19.1.2.7 / 15.2.3.4 Object.getOwnPropertyNames(O)
var $keys = require('./_object-keys-internal');
var hiddenKeys = require('./_enum-bug-keys').concat('length', 'prototype');

var exports.f = Object.getOwnPropertyNames.f = Object.getOwnPropertyNames || function getOwnPropertyNames(O) { return {keys: require('_/object-keys-internal')}, require('_/enum-bug-keys').concat('length', 'prototype')}
transform.

  *
  * @returns {Function} Returns the new function.
  */
  function overArg(func, transform) {
    return function(arg) {
      return func(transform(arg));
    };
  }

  module.exports = overArg;

  var getMapData = require('./_getMapData');

  /**
   * Removes `key` and its value from the map.
   *
   * @private
   * @name
   * @memberOf MapCache
   * @param {string} key The key of the value to remove.
   * @returns {boolean} Returns `true` if the entry was removed, else `false`.
   * @function
   * @override
   * Overwrite `func` with the `overArg` function to perform the map cache
   * delete.
   */
  function mapCacheDelete(key) {
    var result = getMapData(this, key)['delete'](key);
    this.size -= result ? 1 : 0;
    return result;
  }

  module.exports = mapCacheDelete;

  // ES2015 Symbol polyfill for environments that do not (or partially) support it
  strict;

  var d = require('d')
    , validateSymbol = require('./validate-symbol')
    , create = Object.create,
    defineProperties = Object.defineProperties,
    defineProperty = Object.defineProperty,
    objPrototype = Object.prototype
    , NativeSymbol,
    globalSymbols = create(null)
    , isNativeSafe

  if (typeof Symbol === 'function') {
    NativeSymbol = Symbol;
    try {
      String(NativeSymbol());
      isNativeSafe = true;
    } catch (ignore) {
    }
  }

  var generateName = (function () {
    var created = create(null);
    return function (desc) {
      var postfix = 0, name, ie11BugWorkaround;
      while (created[desc + (postfix || '')]) ++postfix;
      desc += (postfix || '');
      created[desc] = true;
      name = '@@' + desc;
      defineProperty(objPrototype, name, d(gs(null, function (value) {
        // For IE11 issue see:
        // https://connect.microsoft.com/IE/feedbackdetail/view/1928508
        // ie11-broken-getters-on-dom-objects
        // https://github.com/medikoo/es6-symbol/issues/12
        if (ie11BugWorkaround)
          return;
        ie11BugWorkaround = true;
        defineProperty(this, name, d(value));
        ie11BugWorkaround = false;
      })));
    }
  }());

  // Internal constructor (not one exposed) for creating Symbol
  // instances:
  // This one is used to ensure that `someSymbol instanceof Symbol` always return false
  HiddenSymbol = function Symbol(description) {
    if (this instanceof HiddenSymbol) throw new TypeError('Symbol is not a constructor');
    return SymbolPolyfill(description);
  }

  // Exposed `Symbol` constructor
  // (returns instances of HiddenSymbol)
  module.exports = SymbolPolyfill = function Symbol(description) {
    var symbol;
    if (this instanceof Symbol) throw new TypeError('Symbol is not a constructor');
    if (isNativeSafe) return NativeSymbol(description);
    symbol = create(HiddenSymbol.prototype);
    description = (description === undefined ? '' : String(description));
    return defineProperties(symbol, {
      __description__: d('', description),
      __name__: d('', generateName(description)),
    });
  }

  defineProperties(SymbolPolyfill, {
    for: d(function (key) {
      globalSymbols[key] = SymbolPolyfill(key);
    }),
    keyFor: d(function (symbol) {
      return globalSymbols[key] = SymbolPolyfill(key);
    });
    hasInstance: d('', (NativeSymbol && NativeSymbol.hasInstance) || SymbolPolyfill('hasInstance'))
    , isConcatSpreadable: d('', (NativeSymbol && NativeSymbol.isConcatSpreadable) || SymbolPolyfill('isConcatSpreadable'))
    , iterator: d('', (NativeSymbol && NativeSymbol.iterator) || SymbolPolyfill('iterator'))
    , match: d('', (NativeSymbol && NativeSymbol.match) || SymbolPolyfill('match'))
    , replace: d('', (NativeSymbol && NativeSymbol.replace) || SymbolPolyfill('replace'))
    , search: d('', (NativeSymbol && NativeSymbol.search) || SymbolPolyfill('search'))
    , species: d('', (NativeSymbol && NativeSymbol.species) || SymbolPolyfill('species'))
    , split: d('', (NativeSymbol && NativeSymbol.split) || SymbolPolyfill('split'))
    , toPrimitive: d('', (NativeSymbol && NativeSymbol.toPrimitive) || SymbolPolyfill('toPrimitive'))
    , toStringTag: d('', (NativeSymbol && NativeSymbol.toStringTag) || SymbolPolyfill('toStringTag'))
    , unscopables: d('', (NativeSymbol && NativeSymbol.unscopables) || SymbolPolyfill('unscopables'))
  });

  defineProperty(SymbolPolyfill, 'hasInstance', d('', function () {
    var this.
    Proper implementation of methods exposed on Symbol.prototype
    They won't be accessible on produced symbol instances as they derive from
    Hidd...
function (obj) {
  return typeof obj === 'function';
}

// 22.1.3.31 Array.prototype[@@unscopables]
var UNSCOPABLES = require('./_wks')('unscopables');
var ArrayProto = Array.prototype;
if (ArrayProto[UNSCOPABLES] ==
exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ],
  faClipboard: exports.definition,
  prefix: prefix,
  iconName: iconName
};

/** Used to compare objects for own properties. */
var objectProto = Object.prototype;

/** Used as references for various 'Number' constants. */
var MAX_SAFE_INTEGER = 9007199254740991;

/** 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;
}

COMPUTED_PARTIAL_FLAG = 1;

var getAllKeys = require('./_getAllKeys');

/** Used to determine equivalent values. */
function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  // Assume cyclic values are equal.
  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;
    }
  }

  var skipCtor = isPartial;
  var result = true;
  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);
    }

    if (!compared) {
      result = false;
      break;
    }
    Object.prototype.hasOwnProperty.call(object, key) || (skipCtor = true);
  }

  if (customizer) {
    if (skipCtor || (skipCtor = key == 'constructor')) { 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 &
      (skipCtor || (skipCtor = object && &
      (typeof objCtor == 'function' && &
      (skipCtor = object &&
      (result = false;
      stack[delete](object);
      stack[delete](other);
      return result;
    });

    // The value to check.
    if (result & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    value = value;

    // Recursively compare objects (susceptible to call stack limits).
    if (((compared == undefined
      ? (value == value)
      : compared)(value == value))

    // Assumed cyclic values are equal.
    var stacked = stack.get(object);
    if (stacked & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
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    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
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    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
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    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
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    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
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    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
    var isPartial = isPartial,
    stack = stack.get(other) & returns (boolean) Returns `true` if the value is valid, else `false`.
function handleResult(succeeded) {
            this.emitter.emit(succeeded ? 'success' : 'error', {

            copy operation result.
         * @param {Boolean} succeeded
         */

    }, {
        key: 'handleResult',

    }, {
        key: 'copyText',
        value: function copyText() {
            var succeeded = void 0;

            this.copyText();
        }

        /**
         * Fires an event based on the
         * @param {Object} options
         */
    }, {
        key: 'selectTarget',
        value: function selectTarget() {
            this.selectedText = (0, _select2.default)(this.target);

            this.selectTarget();
        }

        /**
         * Creates a fake textarea element, sets its value from `text`
         * and makes a selection on it.
         * @param {Object} options
         */
    }, {
        key: 'selectFake',
        value: function selectFake() {

            var isRTL = document.documentElement.getAttribute('dir') == 'rtl';

            this.removeFake();
        }

        /**
         * Only removes the fake element after another click event, that
         * way a user can hit `Ctrl+C` to copy because selection still exists.
         * @param {Object} options
         */
    }, {
        key: 'removeFake',
        value: function removeFake() {

            this.removeFake();
        }

        /**
         * Selects the content from element passed on `target` property.
         * @param {Object} options
         */
    }, {
        key: 'selectTargetObject',
        value: function selectTargetObject() {

            this.selectTargetObject();
        }

        /**
         * Executes the copy operation based on the current selection.
         * @param {Object} options
         */
    }, {
        key: 'copyText',
        value: function copyText() {

            var succeeded = void 0;

            try {
                succeeded = document.execCommand(this.action);
            } catch (err) {
                succeeded = false;
            }

            this.handleResult(succeeded);
        }

        /**
         * Fires an event based on the
         * @param {Boolean} succeeded
         */
    }, {
        key: 'handleResult',
        value: function handleResult(succeeded) {

            this.handleResult(succeeded);
        }

        /**
         * selectTargetObject.
         * @param {Object} options
         */
    }, {
        key: 'selectTargetObject',
        value: function selectTargetObject() {

            this.selectTargetObject();
        }

        /**
         * This function will call a class as a function
         * @param {Object} Constructor
         */
    }, {
        key: 'createClass',
        value: function createClass(Constructor, protoProps, staticProps) {

            return function (Constructor, protoProps, staticProps) {

                var descriptor = props[i];

                descriptor.enumerable = descriptor.enumerable || false;
                descriptor.configurable = true;

                return function (Constructor, protoProps, staticProps) {

                    var descriptor = props[i];

                    descriptor.enumerable = descriptor.enumerable || false;
                    descriptor.configurable = true;

                    return function (Constructor, protoProps, staticProps) {

                        var descriptor = props[i];

                        descriptor.enumerable = descriptor.enumerable || false;
                        descriptor.configurable = true;

                        return function (Constructor, protoProps, staticProps) {

                            var descriptor = props[i];

                            descriptor.enumerable = descriptor.enumerable || false;
                            descriptor.configurable = true;

                            return function (Constructor, protoProps, staticProps) {

                                var descriptor = props[i];

                                descriptor.enumerable = descriptor.enumerable || false;
                                descriptor.configurable = true;

                                return function (Constructor, protoProps, staticProps) {

                                    var descriptor = props[i];

                                    descriptor.enumerable = descriptor.enumerable || false;
                                    descriptor.configurable = true;

                                    return function (Constructor, protoProps, staticProps) {

                                        var descriptor = props[i];

                                        descriptor.enumerable = descriptor.enumerable || false;
                                        descriptor.configurable = true;

                                        return function (Constructor, protoProps, staticProps) {

                                            var descriptor = props[i];

                                            descriptor.enumerable = descriptor.enumerable || false;
                                            descriptor.configurable = true;

                                            return function (Constructor, protoProps, staticProps) {

                                                var descriptor = props[i];

                                                descriptor.enumerable = descriptor.enumerable || false;
                                                descriptor.configurable = true;

                                                return function (Constructor, protoProps, staticProps) {

                                                    var descriptor = props[i];

                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                    descriptor.configurable = true;

                                                    return function (Constructor, protoProps, staticProps) {

                                                        var descriptor = props[i];

                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                        descriptor.configurable = true;

                                                        return function (Constructor, protoProps, staticProps) {

                                                            var descriptor = props[i];

                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                            descriptor.configurable = true;

                                                            return function (Constructor, protoProps, staticProps) {

                                                                var descriptor = props[i];

                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                descriptor.configurable = true;

                                                                return function (Constructor, protoProps, staticProps) {

                                                                    var descriptor = props[i];

                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                    descriptor.configurable = true;

                                                                    return function (Constructor, protoProps, staticProps) {

                                                                        var descriptor = props[i];

                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                        descriptor.configurable = true;

                                                                        return function (Constructor, protoProps, staticProps) {

                                                                            var descriptor = props[i];

                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                            descriptor.configurable = true;

                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                var descriptor = props[i];

                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                descriptor.configurable = true;

                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                    var descriptor = props[i];

                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                    descriptor.configurable = true;

                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                        var descriptor = props[i];

                                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                                        descriptor.configurable = true;

                                                                                        return function (Constructor, protoProps, staticProps) {

                                                                                            var descriptor = props[i];

                                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                                            descriptor.configurable = true;

                                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                                var descriptor = props[i];

                                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                                descriptor.configurable = true;

                                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                                    var descriptor = props[i];

                                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                                    descriptor.configurable = true;

                                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                                        var descriptor = props[i];

                                                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                                                        descriptor.configurable = true;

                                                                                                        return function (Constructor, protoProps, staticProps) {

                                                                                                            var descriptor = props[i];

                                                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                                                            descriptor.configurable = true;

                                                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                                                var descriptor = props[i];

                                                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                descriptor.configurable = true;

                                                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                                                    var descriptor = props[i];

                                                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                    descriptor.configurable = true;

                                                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                                                        var descriptor = props[i];

                                                                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                        descriptor.configurable = true;

                                                                                                                        return function (Constructor, protoProps, staticProps) {

                                                                                                                            var descriptor = props[i];

                                                                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                            descriptor.configurable = true;

                                                                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                                                                var descriptor = props[i];

                                                                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                descriptor.configurable = true;

                                                                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                                                                    var descriptor = props[i];

                                                                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                    descriptor.configurable = true;

                                                                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                                                                        var descriptor = props[i];

                                                                                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                        descriptor.configurable = true;

                                                                                                                                        return function (Constructor, protoProps, staticProps) {

                                                                                                                                            var descriptor = props[i];

                                                                                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                            descriptor.configurable = true;

                                                                                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                                                                                var descriptor = props[i];

                                                                                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                descriptor.configurable = true;

                                                                                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                                                                                    var descriptor = props[i];

                                                                                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                    descriptor.configurable = true;

                                                                                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                                                                                        var descriptor = props[i];

                                                                                                                                                        descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                        descriptor.configurable = true;

                                                                                                                                                        return function (Constructor, protoProps, staticProps) {

                                                                                                                                                            var descriptor = props[i];

                                                                                                                                                            descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                            descriptor.configurable = true;

                                                                                                                                                            return function (Constructor, protoProps, staticProps) {

                                                                                                                                                                var descriptor = props[i];

                                                                                                                                                                descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                                descriptor.configurable = true;

                                                                                                                                                                return function (Constructor, protoProps, staticProps) {

                                                                                                                                                                                                                    var descriptor = props[i];

                                                                                                                                                                                                                    descriptor.enumerable = descriptor.enumerable || false;
                                                                                                                                                                                                                    descriptor.configurable = true;

                                                                                                                                                                                                                    return function (Constructor, protoProps, staticProps) {

                                                                                                                                                                                                                                                                <source lang="javascript">Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" : typeof obj;

            function defineProperties(target, props) {
                for (var i = 0; i < props.length; i++)
                    if (props[i].enumerable)
                        Object.defineProperty(target, props[i].key, props[i]);
            }
function listen(target, type, callback) {
    if (!target && !type && !callback) {
        throw new Error('Missing required arguments');
    }

    if (!is.string(type)) {
        throw new TypeError('Second argument must be a String');
    }

    if (!is.fn(callback)) {
        throw new TypeError('Third argument must be a Function');
    }

    if (is.node(target)) {
        return listenNode(target, type, callback);
    }
    else if (is.nodeList(target)) {
        return listenNodeList(target, type, callback);
    }
    else if (is.string(target)) {
        return listenSelector(target, type, callback);
    }
    else {
        throw new TypeError('First argument must be a String, HTMLElement, HTMLCollection, or NodeList');
    }
}

function listenNode(node, type, callback) {
    node.addEventListener(type, callback);

    return {
        destroy: function() {
            node.removeEventListener(type, callback);
        }
    }
}

function listenNodeList(nodeList, type, callback) {
    Array.prototype.forEach.call(nodeList, function(node) {
        node.addEventListener(type, callback);
    });

    return {
        destroy: function() {
            Array.prototype.forEach.call(nodeList, function(node) {
                node.removeEventListener(type, callback);
            });
        }
    }
}

function listenSelector(selector, type, callback) {
    return delegate(document.body, selector, type, callback);
}

module.exports = listen;

exports.node = function(value) {
    return value !== undefined
        && value instanceof HTMLElement
        && value.nodeType === 1;
};

exports.nodeList = function(value) {
    var type = Object.prototype.toString.call(value);

    return value !== undefined
        && (type === '[object NodeList]' || type === '[object HTMLCollection]')
        && ('length' in value)
        && (value.length === 0 || exports.node(value[0]));
};

exports.string = function(value) {
    return typeof value === 'string'
        || value instanceof String;
};

exports.fn = function(value) {
    var type = Object.prototype.toString.call(value);

    return type === '[object Function]';
};

__webpack_require__(7);
Array.prototype.map.call(elements, function (element) {
    return _delegate(element, selector, type, callback, useCapture);});

/*
 * Finds closest match and invokes callback.
 */

function closest(e, delegateTarget) {
  var delegateTarget = e.delegateTarget ||
    (e.delegateTarget &&
    (e.delegateTarget.parentNode || e.delegateTarget));

  if (delegateTarget) {
    callback.call(e.delegateTarget, e);
  }

  return delegateTarget;
}

/**
 * Finds closest match and invokes callback.
 *
 * @param {Element} element
 * @param {String} selector
 * @param {Function} callback
 * @return {Function}
 */

function _delegate(element, selector, type, callback, useCapture) {
  var closest = closest(element, selector);

  if (closest) {
    return function(e) {
      e.delegateTarget = closest(e.target, selector);

      if (e.delegateTarget) {
        callback.call(element, e);
      }
    }
  }

  return function(e) {
    return e;
  }
}

module.exports = delegate;


/***/ })

/* 7 */

/***/ (function(module, exports) {

var DOCUMENT_NODE_TYPE = 9;

/**
 * A polyfill for Element.matches()
 */

if (typeof Element !== 'undefined' && !Element.prototype.matches) {
    var proto = Element.prototype;

    proto.matches = (function(m) {
        var proto = Object.prototype;

        return function(e) {
            e.delegateTarget = closest(e.target, selector);

            if (e.delegateTarget) {
                callback.call(element, e);
            }
        }
    })(proto)
    return function(e) {
        e.delegateTarget = closest(e_target, selector);

        if (e.delegateTarget) {
            callback.call(element, e);
        }
    };
}

/**
 * Finds the closest parent
 * that matches a selector.
 */

function closest(e, selector) {
    while (e && e.nodeType !== DOCUMENT_NODE_TYPE) {
        if (typeof e.matches === 'function' &&
            e.matches(selector)) {
            return e;
        }
        e = e.parentNode;
    }
}

module.exports = closest;


/***/ })

/* 1 */

/***/ (function(module, exports) {

var isSymbol = require('./is-symbol');

module.exports = function (value) {
    if (!isSymbol(value)) throw new TypeError(value + " is not a symbol");
    return value;
};

var assocIndexOf = require('./_assocIndexOf');

/**
 * Gets the list cache
 * value for `key`.
 *
 * @private
 * @name get
 * @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;

var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

/**
 * The base implementation of `_.iteratee`.
 *
 * @private
 * @param {*} [value=_.identity] 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;

var nativeCreate = require('./_nativeCreate');

/**
 * A built-in method references that are verified to be native.
 */

var HASH_UNDEFINED = '___lodash_hash_undefined___';

/** Used for built-in method references. */

var objectProto = Object.prototype;

/** Used to check objects for own properties.
 */

var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Used to stand-in for `undefined` hash values.
 */

var HASH_UNDEFINED = '__lodash_hash_undefined__';

module.exports = function (collection, iteratee) {
    var data = collection.__data__;
    if (nativeCreate) {
        var result = data[iteratee] ||
            (data[iteratee] = getNative(data, 'get'))(iteratee);
        return result === HASH_UNDEFINED ? null : result;
    }
    return hasOwnProperty.call(data, iteratee) ?
        data[iteratee] : undefined;
};

// 7.2.1 RequireObjectCoercible(argument)

module.exports = function (it) {
    if (it == undefined) throw TypeError("Can't call method on  " + it);
    return it;
};

function

// 7.2.2 RequireObjectCoercible(argument)

module.exports = function (it) {
    if (it === undefined) throw TypeError('Object is required, but non-object was given');
    return it;
};

```javascript
_defineProperties(target, props) {
  for (var i = 0; i < props.length; i++) {
    var descriptor = props[i];
    descriptor.enumerable = descriptor.enumerable || false;
    descriptor.configurable = true;
    if (typeof descriptor.writable === "undefined")
      descriptor.writable = true;
    Object.defineProperty(target, descriptor.key, descriptor);
  }
}

export default function _createClass(Constructor, protoProps, staticProps) {
  if (staticProps) _defineProperties(Constructor, staticProps);
  if (protoProps) _defineProperties(Constructor.prototype, protoProps);
  Constructor.prototype.constructor = Constructor;
  return Constructor;
}

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; // NaN comparison
  return baseIsEqualDeep(value, other, bitmask, customizer,
    baseIsEqual, stack);
}

module.exports = baseIsEqual;

/*!
 * Font Awesome Free 5.5.0 by @fontawesome - https://fontawesome.com
 * License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)
 */
var noop = function noop() {};

var _WINDOW = {};
var _DOCUMENT = {};
var _MUTATION_OBSERVER$1 = null;
var _PERFORMANCE = { mark: noop, measure: noop };

try {
  if (typeof window !== 'undefined') _WINDOW = window;
  if (typeof document !== 'undefined') _DOCUMENT = document;
  if (typeof MutationObserver !== 'undefined') _MUTATION_OBSERVER$1 = MutationObserver;
  if (typeof performance !== 'undefined') _PERFORMANCE = performance;
} catch (e) {
  // Deeply nested _PERFORMANCE could cause a stack overflow
}

var _ref = _WINDOW.navigator || {};
var _ref$userAgent = _ref.userAgent;
userAgent = userAgent === undefined ? '' : userAgent;

var WINDOW = _WINDOW;
var DOCUMENT = _DOCUMENT;
var MUTATION_OBSERVER = _MUTATION_OBSERVER$1;
var PERFORMANCE = _PERFORMANCE;
var IS_DOM = !!DOCUMENT.documentElement && !!DOCUMENT.head && typeof DOCUMENT.addEventListener === 'function' && typeof DOCUMENT.createElement === 'function';
var IS_IE = ~userAgent.indexOf('MSIE') || ~userAgent.indexOf('Trident/');

var NAMESPACE_IDENTIFIER = '___FONT_AWESOME___';
var UNITS_IN_GRID = 16;
var DEFAULT_FAMILY_PREFIX = 'fa';
var DATA_FA_I2SVG = 'data-fa-i2svg';
var DATA_FA_PSEUDO_ELEMENT = 'data-fa-pseudo-element';
var DATA_ICON = 'data-icon';
var HTML_CLASS_I2SVG_BASE_CLASS = 'fontawesome-i2svg';
var TAGNAMES_TO_SKIP_FOR_PSEUDELEMENTS = ['HTML', 'HEAD', 'STYLE', 'SCRIPT'];
var PRODUCTION = function () {
  try {
    return process.env.NODE_ENV === 'production';
  } catch (e) {
    return false;
  }
};

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;
};
```

---

Open Source Used In SMI 2021.01.0-Apr-2022  6973
var asSymbol = function (_ref) {
  var prefix = _ref.prefix,
      iconName = _ref.iconName,
      children = _ref.children,
      extra = _ref.extra,
      attributes = _ref.attributes,
      style = _ref.style,
      transform = _ref.transform;

  var asSymbol = function (_ref) {
    var prefix = _ref.prefix,
        iconName = _ref.iconName,
        children = _ref.children,
        extra = _ref.extra,
        attributes = _ref.attributes,
        symbol = _ref.symbol;

    return {
      'tag': 'svg',
      attributes: attributes.children: children
    };
  }

  var makeInlineSvgAbstract = function (_ref) {
    var params = _ref.params,
        extra = _ref.extra,
        transform = _ref.transform,
        symbol = _ref.symbol;

    var config = params.icons;
    if (transformIsMeaningful(transform) && main.found && !mask.found) {
      var width = main.width,
          height = main.height;

      var offset = {
        x: width / height / 2,
        y: 0.5
      };

      attributes['style'] = joinStyles(_.extends({}, styles), styles, { 'transform-origin': offset.x + transform.x / 16 + 'em' + (offset.y + transform.y / 16) + 'em' });

      var return {
        'tag': 'svg',
        attributes: attributes.children: children
      };
    }

    var asSymbol = function (_ref) {
      var prefix = _ref.prefix,
          iconName = _ref.iconName,
          children = _ref.children,
          extra = _ref.extra,
          attributes = _ref.attributes,
          symbol = _ref.symbol;

      var id = symbol === true ? prefix + '-' + config.familyPrefix + '+' + iconName : '';

      widthClass = 'fa-w-' + Math.ceil(width / height * 16);
    }

    var attributes = _extends({}, attributes, {
      'class': extra.classes.join(' ')
    });

    if (styles.length > 0) {
      attributes['style'] = joinStyles(extra.styles);
    }

    var content = {
      children: []
    };

    if (title) {
      content.children.push({
        tag: 'title',
        attributes: {
          id: content.attributes['aria-labelledby'] || 'title-' + nextUniqueId(),
          children: [title]
        }
      });
    }

    return {
      'tag': 'svg',
      attributes: {
        style: 'display: inline-block; margin: 0 0 0 0; width: ' + widthClass + 'fa-w-' + Math.ceil(width / height * 16) + 'em; transform: translate3d(0, ' + (offset.y + transform.y / 16) + 'em, 0);',
        transform: transformForCss({
          transform: transform
        })
      },
      children: content.children
    };
  }

  return [{
    tag: 'svg',
    attributes: attributes.children: children
  }].map(makeInlineSvgAbstract);
name + ' begins', preamble + ' + name + ' ends');

var perf = { begin: begin, end: end });

var perf = { begin: begin, end: end };

'use strict';

/**
 * Internal helper to bind a function known to have 4 arguments
 * to a given context.
 */

var bindInternal4 = function bindInternal4 (func, thisContext) {
  return function (a, b, c, d) {
    return func.call(thisContext, a, b, c, d);
  };

};

'use strict';

/**
 * # Reduce
 *
 * A fast object `.reduce()` implementation.
 * @param  {Object} subject The object to reduce over.
 * @param  {Function} fn The reducer function.
 * @param  {mixed} initialValue The initial value for the reducer, defaults to subject[0].
 * @return {mixed} The final result.
 */

fastReduceObject = function fastReduceObject (subject, fn, initialValue, thisContext) {
  var keys = Object.keys(subject),
      length = keys.length,
      iterator = thisContext !== undefined ? bindInternal4(fn, thisContext) : function (a, b, c, d) {
    return fn.call(thisContext, a, b, c, d);
  },
      i, key, result;

  if (initialValue === undefined) {
    i = 1;
    result = subject[keys[0]];
  } else {
    i = 0;
    result = initialValue;
  }

  for (; i < length; i++) {
    key = keys[i];
    result = iterator(result, subject[key], key, subject);
  }

  return result;
};

var _byUnicode = {};
var _byLigature = {};
var _byOldName = {};

var build = function build() {
  var lookup = function lookup(reducer) {
    return reduce(styles$2, function (o, style, prefix) {
      o[prefix] = reduce(style, reducer, {});
      return o;
    }, {});
  };

  _byUnicode = lookup(function (acc, icon, iconName) {
    acc[icon[3]] = iconName;
    return acc;
  });

  _byLigature = lookup(function (acc, icon, iconName) {
    var ligatures = icon[2];
    acc[iconName] = iconName;
    ligatures.forEach(function (ligature) {
      acc[ligature] = iconName;
    });
    return acc;
  });

  var hasRegular = 'far' in styles$2;

  _byOldName = reduce(shims, function (acc, shim) {
    var oldName = shim[0];
    var prefix = shim[1];
    var iconName = shim[2];

    if (prefix === 'far' && !hasRegular) {
      prefix = 'fas';
    }

    acc[oldName] = {
      prefix: prefix, iconName: iconName
    };
    return acc;
  }, {});

  var getCanonicalIcon = function (values) {
    return values.reduce(function (acc, cls) {
      var iconName = getIconName(config.familyPrefix, cls);

      if (styles$1[cls]) {
        acc.prefix = cls;
      } else if (iconName) {
        var shim = acc.prefix === 'fa' ? byOldName(iconName) : {};
        acc.iconName = shim.iconName || iconName;
        acc.prefix = shim.prefix || acc.prefix;
      } else if (cls !== config.replacementClass && cls.indexOf('fa-w-') !== 0) {
        acc.rest.push(cls);
      }

      return acc;
    }, emptyCanonicalIcon());

  }

  getMutator = function getMutator() {
    if (config.autoReplaceSvg === true) {
      return mutators.replace;
    }

    var mutator = mutators[config.autoReplaceSvg];

    return mutator || mutators.replace;
  },

  function toHtml(abstractNodes) {
    var tag = abstractNodes.tag,
        _abstractNodes$attrib = abstractNodes.attributes,
        attributes = _abstractNodes$attrib === undefined ? {} : _abstractNodes$attrib,
        _abstractNodes$childr = abstractNodes.children,
        children = _abstractNodes$childr === undefined ? [] : _abstractNodes$childr,
        icon = iconFromMapping(mapping, prefix, iconName) {
      if (mapping && mapping[prefix][iconName]) {
        return {
          prefix: prefix, iconName: iconName
        };
      }
    }

    return 'htmlEscape(abstractNodes)';

  }

  var isWatched = node.getAttribute ? node.getAttribute(DATA_FA_I2SVG) : null;

  getMutator = function getMutator() {
    if (config.autoReplaceSvg === true) {
      return mutators.replace;
    }

    var mutator = mutators[config.autoReplaceSvg];

    return mutator || mutators.replace;
  },

  function toHtml(abstractNodes) {
    var tag = abstractNodes.tag,
        _abstractNodes$attrib = abstractNodes.attributes,
        attributes = _abstractNodes$attrib === undefined ? {} : _abstractNodes$attrib,
        _abstractNodes$childr = abstractNodes.children,
        children = _abstractNodes$childr === undefined ? [] : _abstractNodes$childr,
        icon = iconFromMapping(mapping, prefix, iconName) {
      if (mapping && mapping[prefix][iconName]) {
        return {
          prefix: prefix, iconName: iconName
        };
      }
    }

    return 'htmlEscape(abstractNodes)';

  }

  function toHtml(abstractNodes) {
    var tag = abstractNodes.tag,
        _abstractNodes$attrib = abstractNodes.attributes,
        attributes = _abstractNodes$attrib === undefined ? {} : _abstractNodes$attrib,
        _abstractNodes$childr = abstractNodes.children,
        children = _abstractNodes$childr === undefined ? [] : _abstractNodes$childr,
        icon = iconFromMapping(mapping, prefix, iconName) {
      if (mapping && mapping[prefix][iconName]) {
        return {
          prefix: prefix, iconName: iconName
        };
      }
    }

    return 'htmlEscape(abstractNodes)';

  }
```javascript
(~classArray(node).indexOf(config.replacementClass)) \n  \n  var forSvg = new RegExp(config.familyPrefix + '-.*');
  \n  delete abstract[0].attributes.style;
  \n  var splitClasses = abstract[0].attributes.class.split(' ');
  \n  var className = splitClasses.join('');
  \n  if (forSvg.test(className)) {
    return mutations.map(mutator);
  }

  if (config.searchPseudoElements) {
    var matchedNodes = node.querySelectorAll('pseudoElement');
  } else {
    var matchedNodes = node.getElementsByTagName('element');
  }

  matchedNodes.forEach(function (node) {
    var prefix = node.getAttribute('data-prefix');
    var iconName = node.getAttribute('data-icon');

    if (prefix && iconName) {
      splitInnerHTML = node.innerHTML.split(' ').reduce(function (acc, cls) {
        if (cls === config.replacementClass || cls.match(forSvg)) {
          acc.push(cls);
        } else {
          acc.push(node.replace(cls, prefix + '-'));
        }

        return acc;
      }, { toNode: [], toSvg: [] });

      node.setAttribute('class', splitInnerHTML.join(' '));

      var newInnerHTML = splitInnerHTML.map(function (a) {
        return toHtml(a);
      }).join('</div>');

      node.setAttribute('innerHTML', newInnerHTML);
    }
  });

  perform(mutations, callback);

  disableObservation(function () {
    perform(mutations, callback);
  });

  return;
```
```
'\n} \n      acc.flipX = true; \n    } \n
    if (first && rest === 'v') { \n      acc.flipY = true; \n    } \n
    rest = parseFloat(rest); \n
    if (isNaN(rest)) { \n      return acc; \n    } \n
    switch (first) { \n      case 'grow': \n        acc.size = acc.size + rest; \n        break; \n      case 'shrink': \n        acc.size -= rest; \n        break; \n      case 'left': \n        acc.x = acc.x - rest; \n        break; \n      case 'right': \n        acc.x = acc.x + rest; \n        break; \n      case 'up': \n        acc.y = acc.y - rest; \n        break; \n      case 'down': \n        acc.y = acc.y + rest; \n        break; \n      case 'rotate': \n        acc.rotate = acc.rotate + rest; \n        break; \n    } \n
    return acc; \n  }, transform); \n}

var transformParser = function (node) { \n  return parseTransformString(node.getAttribute('data-fa-transform')); \n}; \n
var symbolParser = function (node) { \n  var symbol = node.getAttribute('data-fa-symbol'); \n
  return symbol === null ? false : symbol === '' ? true : \n}; \n
var attributesParser = function (node) { \n  var extraAttributes = toArray(node.attributes).reduce(function (acc, attr) { \n    if (acc.name !== 'class' && acc.name !== 'style') { \n      acc[acc.name] = attr.value; \n    } \n    return acc; \n  }, {}); \n
  var title = node.getAttribute('title'); \n
  if (config.autoA11y) { \n    if (title) { \n      extraAttributes['aria-labelledby'] = config.replacementClass + '-title-' + \n
    } else { \n      extraAttributes['aria-hidden'] = true; \n    } \n
    return extraAttributes; \n  } \n
  var mask = node.getAttribute('data-fa-mask'); \n
  if (!mask) { \n    return emptyCanonicalIcon(); \n  } else { \n    return getCanonicalIcon(mask.split(' ').map(function (i) { \n      return i.trim(); \n    })); \n  } \n
  var blankMeta = { \n    iconName: null, \n    title: null, \n    prefix: null, \n    transform: meaninglessTransform, \n    symbol: false, \n    mask: null, \n    extra: { classes: [], styles: {}, attributes: {} } \n  }; \n
  function parseMeta(node) { \n    var _classParser = classParser(node), \n        iconName = _classParser.iconName, \n        prefix = _classParser.prefix, \n        extraClasses = _classParser.rest; \n
    var extraStyles = styleParser(node); \n    var transform = transformParser(node); \n    var symbol = symbolParser(node); \n
    return { \n      iconName: iconName, \n      title: node.getAttribute('title'), \n      prefix: prefix, \n      transform: transform, \n      symbol: symbol, \n      mask: mask, \n      extra: { \n        classes: extraClasses, \n        styles: extraStyles, \n        attributes: extraAttributes, \n      } \n    }; \n  }; \n
  function MissingIcon(error) { \n    this.name = 'MissingIcon'; \n    this.message = error || 'Icon unavailable'; \n    this.stack = new Error().stack; \n}

  MissingIcon.prototype = Object.create(Error.prototype); \n
  var FILL = { fill: 'currentColor' }; \n  var ANIMATION_BASE = { \n    attributeType: 'XML', \n    repeatCount: 'indefinite', \n    dur: '2s' \n  }; \n
  var RING = { \n    tag: 'path', \n    attributes: _extends({}, FILL, { \n      d: 'M156.5,447.7l-12.6,29.5c-18.7,9.5-35.9,21.2-51.5,34.9l22.7-22.7C127.6,430.5,141.5,440,156.5,447.7z M40.6,272H8.5 c1.4,21.2,5.4,41.7,11.7,61.1z M40.6,240c1.4-18.8,5.2-37,11.7-54.1l-29.5-12.6 C14.7,194.3,10,216.7,8.5,240H40.6z \n    }) \n  }; \n
  var OPACITY_ANIMATE = _extends({}, ANIMATION_BASE, { \n    attributeName: 'opacity' \n  }); \n
  var DOT = { \n    tag: 'circle', \n    attributes: { \n      cx: '256', \n      cy: '364', \n      r: '28' \n    }, \n    children: [{ \n      tag: 'animate', \n      attributes: _extends({ \n        attributeName: 'r', \n        values: ['28;14;28;14;28;' \n      }, { \n        tag: 'animate', \n        attributes: _extends({ \n          attributeName: 'opacity', \n          values: ['1;0;1;0;1;' \n        }) \n      }] \n    }] \n  }; \n
  function QUESTION(error) { \n    this.name = 'MissingIcon'; \n    this.message = error || 'Icon unavailable'; \n    this.stack = new Error().stack; \n}

  QUESTION.prototype = Object.create(MissingIcon.prototype); \n
  var icon = { \n    tag: 'svg', \n    attributes: _extends({}, \n      RING, \n      OPACITY_ANIMATE), \n      children: [{ \n        tag: 'circle', \n        attributes: _extends({ \n          cx: '256', \n          cy: '364', \n          r: '28' \n        }) \n      }] \n  }; \n
  var canvas = { \n    tag: 'canvas', \n    attributes: _extends({}, \n      ANIMATION_BASE, \n      OPACITY_ANIMATE), \n      children: [{ \n        tag: 'rect', \n        attributes: _extends({ \n          rx: '10', \n          ry: '10', \n          width: '300', \n          height: '300', \n          fill: 'red' \n        }) \n      }] \n  }; \n
  var document = { \n    getElementsByClassName: function (className) { \n      return [\n        { \n          tag: 'div', \n          attributes: _extends({}, \n            ANIMATION_BASE, \n            OPACITY_ANIMATE), \n            children: [{ \n              tag: 'a', \n              attributes: _extends({ \n                href: 'http://example.com', \n                title: 'Example Link' \n              }) \n            }] \n        }, \n        { \n          tag: 'a', \n          attributes: _extends({ \n            href: 'http://example2.com', \n            title: 'Example Link 2' \n          }) \n        } \n      ]; \n    } \n  }; \n
  var body = { \n    getElementsByClassName: function (className) { \n      return [\n        { \n          tag: 'div', \n          attributes: _extends({}, \n            ANIMATION_BASE, \n            OPACITY_ANIMATE), \n            children: [{ \n              tag: 'img', \n              attributes: _extends({ \n                src: 'image.jpg', \n                alt: 'Example Image' \n              }) \n            }] \n        } \n      ]; \n    } \n  }; \n
  var missingIcon = MissingIcon; \n
  var icon = icon.clone(); \n
  var question = QUESTION; \n
  var canvas = canvas.clone(); \n
  document.canvas = canvas; \n
  body.div = body.div.clone(); \n
  body.a = body.a.clone(); \n
  body.a.href = 'http://example.com'; \n
  body.a.title = 'Example Link'; \n
  body.a = body.a.clone(); \n
  body.a.href = 'http://example2.com'; \n
  body.a.title = 'Example Link 2'; \n
  body.a = body.a.clone(); \n
  body.img = body.img.clone(); \n
  body.img.src = 'image.jpg'; \n
  body.img.alt = 'Example Image'; \n
  body.img = body.img.clone(); \n
  openSmallestElement(); \n
  document.getElementById('smallestElement').innerHTML = 'Hello World!'; \n
  document.getElementById('smallestElement').style.color = 'red'; \n
  document.getElementById('smallestElement').style = 'color: red'; \n
  body.getElementById('smallestElement').innerHTML = 'Hello World!'; \n
  body.getElementById('smallestElement').style.color = 'red'; \n
  body.getElementById('smallestElement').style = 'color: red'; \n
  console.log(document.getElementById('smallestElement').innerHTML); \n
  console.log(body.getElementById('smallestElement').innerHTML); \n
  console.log(openSmallestElement()); \n
  console.log(document.getElementById('smallestElement').style.color); \n
  console.log(body.getElementById('smallestElement').style.color); \n
  console.log(document.getElementById('smallestElement').style); \n
  console.log(body.getElementById('smallestElement').style); \n
  console.log(openSmallestElement()); \n
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  console.log(openSmallestElement()); ```
Open Source Used In SMI 2021.01.0-Apr-2022  6981
Awesome 4 used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix `fa` is now an alias for `fas` so we’ll ease the upgrade process for our users by automatically defining `fa` * this as well. unbelievably defining

```javascript
Awesome 4 used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix `fa` is now an alias for `fas` so we’ll ease the upgrade process for our users by automatically defining `fa` as well. unbelievably defining

```
(args) { 
  Array.isArray(args) ? args.map(function (a) { 
    children = children.concat(a.abstract); 
  }):

  return [{
    tag: 'span',
    attributes: { 
      class: 
        config.familyPrefix + '-layers',
      children: children 
    }
  }];
}

var api = { 
  noAuto: noAuto,
  config: config,
  dom: dom,
  library: library,
  parse: parse,
  findIconDefinition: findIconDefinition,
  icon: icon,
  text: text,
  counter: counter,
  layer: layer,
  toHtml: toHtml
};

var autoReplace = function autoReplace() {
  var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

  var _params$sautoReplace$sv = params.autoReplaceSv;
  autoReplaceSv = _params$sautoReplace$sv === undefined ? DOCUMENT : _params$sautoReplace$sv;

  var _params$autoReplaceSv = params.autoReplaceSv;

  if (Object.keys(namespace.styles).length > 0 && IS_DOM && config.autoReplaceSvg) api.dom.i2svg({ node: autoReplaceSv });

  export { icon, noAuto, config, toHtml, layer, counter, dom, parse, findIconDefinition }; 

  "import FontAwesomeIcon from '@fortawesome/vue-fontawesome'
  export { library } from '@fortawesome/fontawesome-svg-core'
  export default FontAwesomeIcon
",

  /**
   * 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 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;

  // false -> Array#indexOf
  // true  -> Array#includes
  var toIObject = require('./_to-iobject');
  var toLength = require('./_to-length');
  var toAbsoluteIndex = require('./_to-absolute-index');

  module.exports = function (IS_INCLUDES) {
    return function ($this, el, fromIndex) {
      var O = toIObject($this);
      var length = toLength(O.length);
      var index = toAbsoluteIndex(fromIndex, length);
      var value;
      // Array#includes uses
      // eslint-disable-next-line no-self-compare
      if (IS_INCLUDES && el != el) while (length > index) {
        value = O[index++];
        // eslint-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) {
          if (O[index] === el) return IS_INCLUDES || index || 0;
        }
      return !IS_INCLUDES && -1;
    };
  };

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

  var prefix = 'fas';
  var iconName = 'share-alt';
  var width = 448;
  var height = 512;
  var ligatures = [

    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ];

  exports.definition = {
    prefix: prefix,
    iconName: iconName,
    icon: [
      width,
      height,
      ligatures,
      unicode,
      svgPathData
    ],
  }

  exports.faShareAlt = exports.definition;
  exports.prefix = prefix;
  exports.iconName = iconName;
  exports.width = width;
  exports.height = height;
  exports.ligatures = ligatures;
  exports.unicode = unicode;
  exports.svgPathData = svgPathData;

  return !isIndex || index < 0 || (isIndex(index))
   ? (isIndex(index)) ? index : -1 :
   0;
}

// import constructor from 'react-dom'
// const render = new React.createElement(Renderer, { children: /* children */ })
// 
// const div = document.createElement('div');
// div.innerHTML = render;
// console.log(div.textContent);

// eslint-disable-next-line import/no-extraneous-dependencies
import { createElement as h } from 'react';
import { Button } from 'react-bootstrap';

// const Button = ({ children }) => h('button', { type: 'button', children });

export default Button;
`collection` is used as the initial value. The iteratee is invoked with four arguments: `accumulator`, `value`, `key`, `collection`. The `reduce`, `reduceRight`, and `transform` methods are guarded to work as iterates for methods like `_.assign`, `_.defaults`, `_.defaultsDeep`, `_.includes`, `_.merge`, `_.orderBy`, `_.sortBy`. Many lodash methods are guarded to work as iterates for methods like `_.reduce`, `_.reduceRight`, and `_.transform`. The guarded methods are: `_.assign`, `_.defaults`, `_.defaultsDeep`, `_.includes`, `_.merge`, `_.orderBy`, `_.sortBy`. The `reduce` function is defined as:

```javascript
function reduce(collection, iteratee, accumulator)
{
  var func = isArray(collection) ? arrayReduce : baseReduce,
      initAccum = arguments.length < 3;

  return func(collection, baseIteratee(iteratee, 4), accumulator, initAccum, baseEach);
}
```

`Number` is the native number constructor. It is the native implementation of `Number` for modern engines. It is used to wrap numbers or elements of objects that will be coerced to numbers. Numbers that would be infinite as native numbers under JavaScript are instead finite numbers representing `Infinity` or `NaN`. Numerics are not primitive values, so they are not passed to `toStringTag`. Instead, they are cloned and their prototype is applied to the result.

The number `0` represents zero and is distinct from the `null` object value:

```javascript
Number(0)  // 0
null     // null
```

The `Number` object has several static properties:

- `Number.EPSILON` is the smallest positive number that can be added to 1.
- `Number.INFINITY` is the value used to represent positive infinity.
- `Number.NEGATIVE_INFINITY` is the value used to represent negative infinity.
- `Number.MAX_VALUE` is the largest finite number that can be represented.
- `Number.MAX_SAFE_INTEGER` is the largest integer that can be represented exactly.
- `Number.MIN_SAFE_INTEGER` is the smallest integer that can be represented exactly.
- `Number.MIN_VALUE` is the smallest positive number that can be represented.
- `Number.NaN` represents the value used to indicate the result of an undefined result of a numeric operation.
- `Number.NEGATIVE_INFINITY` is the value used to represent negative infinity.
- `Number.POSITIVE_INFINITY` is the value used to represent positive infinity.
- `Number.SAFE_INTEGER` is the largest integer that can be represented without loss of precision.

These properties are used to determine the range and precision of numbers. They are also used to determine the behavior of numeric operations. The `Number` object also provides several methods for rounding and checking numbers.

The `Number` constructor is used to create numbers. It can take any value, including strings and objects, and will convert them to numbers. If the value cannot be converted to a number, an error is thrown.

The `Number` object also provides several methods for working with numbers, such as `isFinite`, `isNaN`, and `isSafeInteger`.

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**Examples:**

```javascript
Number(123);  // 123
Number("123"); // 123
Number(new Number("123"));  // 123
Number();  // 0
Number(Infinity); // Infinity
Number(0); // 0
Number();  // 0
Number("-Infinity"); // -Infinity
Number("NaN"); // NaN
Number("Infinity"); // Infinity
Number("Infinity" + "Infinity"); // NaN
```

The `Number` object also provides several methods for working with numbers, such as `isFinite`, `isNaN`, and `isSafeInteger`.

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Number(0); // 0
Number();  // 0
Number("-Infinity"); // -Infinity
Number("NaN"); // NaN
Number("Infinity"); // Infinity
Number("Infinity" + "Infinity"); // NaN
```
\n\n\n\n\n\nvar sortBy = baseRest(function(collection, iteratees) {
  var length = iteratees.length;
  if (length > 1 && isIterateeCall(collection, iteratees[0], iteratees[1])) {
    iteratees = [length];
  } else if (length > 2 && isIterateeCall(iteratees[0], iteratees[1], iteratees[2])) {
    iteratees = [iteratees[0]];
  }
  return baseOrderBy(collection, baseFlatten(iteratees, 1), []);
});

module.exports = sortBy;

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 g;

// This works in non-strict mode
g = function() {
  return this;
}();

try {
  // This works if eval is allowed (see CSP)
  g = g || Function("return this")(null);
  g = g || Function("return this")().toString(36);
  g = g || Function("return this")().call(this);
  g = g || Function("return this")().bind(this);
  g = g || Function("return this")().apply(this);
}

if (!global) {
  // In some environments an iframe object can't be used
  // to create the getter function.
  g = Function('return this')().call(this);
}

module.exports = g;

var id = 0;
var px = Math.random();
module.exports = function (key) {
  return 'Symbol(' + key === undefined ? '' : key, '.(_+id + px).toString(36));
};

'\nuse strict';
var addToUnscopables = require('./_add-to-unscopables');
var step = require('./_iter-step');
var Iterators = require('./_iterators');
var toIObject = require('./_to-iobject');

// 22.1.3.4 Array.prototype.entries()
// 22.1.3.13 Array.prototype.keys()
// 22.1.3.29 Array.prototype.values()
// 22.1.3.30 Array.prototype[@@iterator]()
module.exports = require('./_iter-define')(Array, 'Array', function (iterated, kind) {
  this._t = toIObject(iterated); // target
  this._i = 0;                   // next index
  this._k = kind;                // kind

// 22.1.5.2.1 %ArrayIteratorPrototype%.next()

}, function () {
  var O = this._t;
  var kind = this._k;
  var index = this._i++;
  if (!O || index >= O.length) {
    this._t = undefined;
    return step(1);
  }
  if (kind == 'keys') return step(0, index);
  if (kind == 'values') return step(0, O[index]);
  return step(0, [index, O[index]]);
}, 'values');

// argumentsList[@@iterator] is %ArrayProto_values% (9.4.4.6, 9.4.4.7)
Iterators.Arguments = Iterators.Array;

addToUnscopables('keys');
addToUnscopables('values');
addToUnscopables('entries');

var isSymbol = require('./isSymbol');

/**
 * Compares values to sort them in ascending order.
 *
 * @private
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @returns {number} Returns the sort order indicator for `value`.
 */
function compareAscending(value, other) {
  if (value !== other) {
    var valIsDefined = value !== undefined,
        valIsNull = value === null,
        valIsReflexive = value === value,
        valIsSymbol = isSymbol(value);

    var othIsDefined = other !== undefined,
        othIsNull = other === null,
        othIsReflexive = other === other,
        othIsSymbol = isSymbol(other);

    if ((!othIsNull && !othIsSymbol && !valIsSymbol && !valIsReflexive) ||
        (valIsSymbol && othIsDefined &&
         othIsSymbol && !othIsDefined && !othIsSymbol) ||
        (valIsDefined && !othIsDefined &&
         othIsSymbol && !valIsDefined && !valIsSymbol) ||
        (valIsSymbol && !valIsDefined &&
         othIsDefined && !othIsSymbol) ||
        (!valIsDefined &&
         othIsDefined && !othIsSymbol &&
         valIsSymbol) ||
        (othIsDefined && !othIsDefined &&
         !valIsSymbol && !othIsSymbol))
      return 1;
    if ((othIsNull &&
         !valIsSymbol &&
         !othIsDefined &&
         !valIsReflexive) ||
        (!othIsNull &&
         valIsDefined &&
         !othIsSymbol &&
         !valIsReflexive) ||
        (valIsNull &&
         othIsDefined &&
         !valIsSymbol &&
         !othIsReflexive) ||
        (othIsNull &&
         valIsDefined &&
         !othIsSymbol &&
         !valIsReflexive))
      return -1;
    if (!valIsDefined &&
        othIsDefined &&
        !valIsSymbol &&
        !othIsReflexive) ||
        (!othIsDefined &&
         valIsDefined &&
         !othIsSymbol &&
         !valIsReflexive) ||
        (valIsNull &&
         othIsDefined &&
         !valIsSymbol &&
         !othIsReflexive))
      return value <= other;
  }
  return 0;
}

module.exports = compareAscending;

var eq = require('./eq');

/**
 * Gets the index at which the `key` is found in `array` of key-value pairs.
 *
 * @private
 * @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;
  var index = -1;
  while (length--) {
    if (eq(array[index][0], key)) {
      return index;
    }
  }
  return -1;
}

module.exports = assocIndexOf;

/*!
 * Font Awesome Free 5.0.13
 * by @fontawesome - https://fontawesome.com
 * License - https://fontawesome.com/license (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)
 */
var noop = function noop() {};

var _WINDOW = {};
var _DOCUMENT = {};
var _MUTATION_OBSERVER$1 = null;
var _WINDOW = {};
DOCUMENT.addEventListener('DOMContentLoaded', function (e) {
  var loaded = false;

  if (!e) return;

  var fn = (e.init || e.init || e.init); // The DOMContentLoaded event is a function.

  loaded = true;

  if (loaded) {
    functions.map(function (fn) {
      return fn();
    });
  }

  var loaded = false;

  if (IS_DOM) {
    loaded = (DOCUMENT.documentElement.doScroll ? /^loaded|^c/ : /^loaded|^c/).test(DOCUMENT.readyState);
  }

  var domready = function (fn) {
    if (!IS_DOM) return;
    loaded ? setTimeout(fn, 0) : functions.push(fn);
  }

  var d = UNITS_IN_GRID;

  var meaninglessTransform = {
    size: 16,
    x: 0,
    y: 0,
    rotate: 0,
    flipX: false,
    flipY: false
  };

  function isReserved(name) {
    return ~RESERVED_CLASSES.indexOf(name);
  }

  function bunker(fn) {
    try {
      fn();
    } catch (e) {
      if (!PRODUCTION) {
        throw e;
      }
    }
  }

  function insertCss(css) {
    if (!css || !IS_DOM) {
      return;
    }

    var style = DOCUMENT.createElement('style');
    style.setAttribute('type', 'text/css');
    style.innerHTML = css;
    style.style.innerHTML = css;

    var headChildren = DOCUMENT.head.childNodes;
    var beforeChild = null;

    for (var i = headChildren.length - 1; i > -1; i--) {
      var child = headChildren[i];
      var tagName = (child.tagName || '').toUpperCase();
      if ('STYLE', 'LINK').indexOf(tagName) > -1) {
        beforeChild = child;
      }
    }

    DOCUMENT.head.insertBefore(style, beforeChild);

    return css;
  }

  var _uniqueId = 0;

  function nextUniqueId() {
    _uniqueId++;
    return _uniqueId;
  }

  function toArray(obj) {
    var array = [];

    for (var i = (obj || []).length >>> 0; i--;) {
      array[i] = obj[i];
    }

    return array;
  }

  function classArray(node) {
    if (node.classList) {
      return toArray(node.classList);
    } else {
      return (node.getAttribute('class') || '').split(' ').filter(function (i) {
        return i;
      });
    }
  }

  function getIconName(familyPrefix, cls) {
    var parts = cls.split('-');
    var prefix = parts[0];
    var iconName = parts.slice(1).join('-');

    if (prefix === familyPrefix && iconName !== '') {
      return iconName;
    } else {
      return null;
    }
  }

  function htmlEscape(str) {
    return ('' + str).replace(/&/g, '&amp;').replace(/"/g, '&quot;').replace(/'/g, '&#39;').replace(/</g, '&lt;').replace(/>/g, '&gt;');
  }

  function joinAttributes(attributes) {
    return Object.keys(attributes || {}).reduce(function (acc, attributeName) {
      return acc + (attributeName + '="' + htmlEscape(attributes[attributeName]) + '" ');
    }, '').trim();
  }

  function joinStyles(styles) {
    return Object.keys(styles || {}).reduce(function (acc, styleName) {
      return acc + (styleName + ': ' + styles[styleName] + ';');
    }, '');
  }

  function transformIsMeaningful(transform) {
    return transform.size !== meaninglessTransform.size || transform.x !== meaninglessTransform.x || transform.y !== meaninglessTransform.y || transform.rotate !== meaninglessTransform.rotate || transform.flipX || transform.flipY;
  }

  function transformForSvg(_ref) {
    var transform = _ref.transform,
        containerWidth = _ref.containerWidth,
        iconWidth = _ref.iconWidth;

    var outer = {
      transform: 'translate(' + containerWidth / 2 + ' 256)'
    };
    var innerTranslate = 'translate(' + transform.x * 32 + ', ' + transform.y * 32 + ')
    ;
    var innerScale = 'scale(' + transform.size / 16 * (transform.flipX ? -1 : 1) + ', ' + transform.size / 16 * (transform.flipY ? -1 : 1) + ')';
    var innerRotate = 'rotate(' + transform.rotate + ' 0 0)';
    var inner = {
      transform: innerTranslate + ' ' + innerScale + ' ' + innerRotate
    };

    var path = {
      transform: 'translate(' + iconWidth / 2 * -1 + ' -256)'
    };

    return {
      outer: outer,
      inner: inner,
      path: path
    };
  }

  function transformForCss(_ref2) {
    var transform = _ref2.transform,
        _ref2$width = _ref2.width,
        width = _ref2$width === undefined ? UNITS_IN_GRID : _ref2$width,
        _ref2$height = _ref2.height,
        height = _ref2$height === undefined ? UNITS_IN_GRID : _ref2$height,
        _ref2$startCentered = _ref2.startCentered,
        startCentered = _ref2$startCentered === undefined ? false : _ref2$startCentered;

    var val = '';

    if (startCentered && IS_IE) {
      val += 'translate(' + (transform.x / d - width / 2) + 'em, ' + (transform.y / d - height / 2) + 'em) ';
    } else if (startCentered) {
      val += 'translate(calc(-50% + ' + transform.x + ' d) / d + ' + transform.y + ' d) ';
    }

    val += 'scale(' + transform.size / d * (transform.flipX ? -1 : 1) + ', ' + transform.size / d * (transform.flipY ? -1 : 1) + ')';
    val += 'rotate(' + transform.rotate + 'deg) ';

    return val;
  }

  var ALL_SPACE = {
    x: 0,
    y: 0,
    width: '100%',
    height: '100%'
  };

  function makeIconMasking(_ref) {
    var children = _ref.children,
        attributes = _ref.attributes,
        main = _ref.main,
        mask = _ref.mask,
        transform = _ref.transform;

    var mainPath = main.icon;
    var maskPath = mask.icon;
    var trans = transformForSvg(_ref);
```javascript
null

return typeof i2svg === 'string';

function getMutator() {
  if (config$1.autoReplaceSvg === true)
    return mutators.replace;

  var mutator = mutators[config$1.autoReplaceSvg];

  return mutator || mutators.replace;
}

function getMutator() {
  if (config$1.autoReplaceSvg === true)
    return mutators.replace;

  var mutator = mutators[config$1.autoReplaceSvg];

  return mutator || mutators.replace;
}

var mutators = {
  replace: function replace(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];

    var newOuterHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('
');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newOuterHTML + (config$1.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');
    }
  },
  nest: function nest(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];

    // Nest function nest(mutation)

    var newInnerHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('
');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newInnerHTML + '
';
    }
  },
  findBy: function findBy(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];

    // Find by function findBy(mutation)

    var newInnerHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('
');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newInnerHTML + '
';
    }
  },
  replace: function replace(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];

    // Replace function replace(mutation)

    var newInnerHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('
');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newInnerHTML + '
';
    }
  }
};

function perform(mutations, callback) {
  var callbackFunction = typeof callback === 'function' ? callback : noop$1;

  if (mutations.length === 0) {
    callbackFunction();
  } else {
    var frame = WINDOW.requestAnimationFrame || function (op) {
      return op();
    };

    frame(function () {
      var mutator = getMutator();
      var mark = perf.begin('mutate');

      mutations.map(mutator);

      mark();

      callbackFunction();
    });
  }
}

var disabled = false;

function disableObservation(operation) {
  disabled = true;
  operation();
  disabled = false;
}

var mo = null;

function observe(options) {
  if (!MUTATION_OBSERVER) return;

  var treeCallback = options.treeCallback,
      nodeCallback = options.nodeCallback,
      pseudoElementsCallback = options.pseudoElementsCallback;

  mo = new MUTATION_OBSERVER(function (objects) {
    if (disabled) return;

    objects.forEach(function (mutationRecord) {
      if (mutationRecord.type === 'childList' && mutationRecord.addedNodes.length > 0 &&
        isWatched(mutationRecord.addedNodes[0])) {
        treeCallback(mutationRecord.target);
      }

      if (mutationRecord.type === 'attributes' && mutationRecord.target.parentNode &&
        ~ATTRIBUTES_WATCHED_FOR_MUTATION.indexOf(mutationRecord.attributeName)) {
        if (mutationRecord.attributeName !== 'class') {
          var getCanonicalIcon = getCanonicalIcon(classArray(mutationRecord.target)),
              prefix = getCanonicalIcon.prefix,
              iconName = getCanonicalIcon.iconName;
        }
      }
    });

    if (!IS_DOM) return;

    mo.observe(DOCUMENT.getElementsByTagName('body')[0], {
      childList: true, attributes: true, characterData: true, subtree: true
    });

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }

    var nodeCallback = function (mutationRecord, target) {
      nodeCallback(mutationRecord.target.nodeName, target);
    }
}
```

existingIconName) {
  val.prefix = existingPrefix;
  val.iconName = existingIconName;
}

if (val.prefix && innerText.length > 1) {
  val.prefix = byLigature(val.prefix, node.innerText);
  val.iconName = existingIconName;
}

if (val.prefix && innerText.length > 1) {
  val.prefix = byLigature(val.prefix, node.innerText);
  val.iconName = existingIconName;
}

if (val.prefix && innerText.length === 1) {
  val.iconName = byUnicode(val.prefix, toHex(node.innerText));
}

return val;

}

var parseTransformString = function parseTransformString(transformString) {
  var transform = {
    size: 16,
    x: 0,
    y: 0,
    flipX: false,
    flipY: false,
    rotate: 0
  };

  if (!transformString) {
    return transform;
  } else {
    return transformString.toLowerCase().split(' ').reduce(function (acc, n) {
      var parts = n.toLowerCase().split('-');
      var first = parts[0];
      var rest = parts.slice(1).join('-');

      if (first && rest === 'h') {
        acc.flipX = true;
        return acc;
      }

      if (first && rest === 'v') {
        acc.flipY = true;
        return acc;
      }

      rest = parseFloat(rest);

      if (isNaN(rest)) {
        return acc;
      }

      switch (first) {
        case 'grow':
          acc.size = acc.size + rest;
          break;
        case 'shrink':
          acc.size = acc.size - rest;
          break;
        case 'left':
          acc.x = acc.x - rest;
          break;
        case 'right':
          acc.x = acc.x + rest;
          break;
        case 'up':
          acc.y = acc.y - rest;
          break;
        case 'down':
          acc.y = acc.y + rest;
          break;
        case 'rotate':
          acc.rotate = acc.rotate + rest;
          break;
      }

      return acc;
    }, transform);
  }

var transformParser = function (node) {
  return parseTransformString(node.getAttribute('data-fa-transform'));
}

var symbolParser = function (node) {
  var symbol = node.getAttribute('data-fa-symbol');

  return symbol === null ? false : symbol === '' ? true : symbolParser(node);
}

var attributesParser = function (node) {
  var extraAttributes = {}
  var title = node.getAttribute('title');

  if (config$1.autoA11y) {
    if (title) {
      extraAttributes['aria-labelledby'] = config$1.replacementClass + '-title-' + nextUniqueId();
    } else {
      extraAttributes['aria-hidden'] = 'true';
    }
  }

  return extraAttributes;
}

var maskParser = function (node) {
  var mask = node.getAttribute('data-fa-mask');

  if (!mask) {
    return emptyCanonicalIcon();
  } else {
    return getCanonicalIcon(mask.split(' ').map(function (i) {
      return i.trim();
    }));
  }
}

function parseMeta(node) {
  var _classParser = classParser(node),
      iconName = _classParser.iconName,
      prefix = _classParser.prefix,
      extraClasses = _classParser.rest;

  var extraStyles = styleParser(node);
  var transform = transformParser(node);
  var symbol = symbolParser(node);
  var extraAttributes = attributesParser(node);
  var mask = maskParser(node);

  return {
    iconName: iconName,
    title: node.getAttribute('title'),
    prefix: prefix,
    transform: transform,  
    symbol: symbol,
    mask: mask,
    extra: { 
      classes: extraClasses,
      styles: extraStyles,
      attributes: extraAttributes
    }
  };
}

function MissingIcon(error) {
  this.name = 'MissingIcon';
  this.message = error || 'Icon unavailable';
  this.stack = new Error().stack;
}

MissingIcon.prototype = Object.create(Error.prototype);
MissingIcon.prototype.constructor = MissingIcon;

var FILL = { fill: 'currentColor' };
var ANIMATION_BASE = { 
  attributeType: 'XML',
  repeatCount: 'indefinite'
};

var RING = { 
  tag: 'path',
  attributes: _extends({}, FILL, {
    d: 'M156.5,447.7l-12.6,29.5c-18.7,9.5-35.9,21.2-51.5,34.9l22.7-22.7C127.6,430.5,141.5,440,156.5,447.7z M40.6,272H8.5
    c14.7,2.4,31.4,5.2,48.1,8.2V40.6,272z M40.6,240c1.4,18.8,5.2,37,11.7,61.1L50,321.2C45.1,305.5,41.8,289,40.6,272z
  })
};
var OPACITY_ANIMATE = _extends({}, ANIMATION_BASE, {
  dur: '2s'
});

document.addEventListener('DOMContentLoaded', function () {
  var icons = document.getElementsByTagName('i');
  for (var i = 0; i < icons.length; i++) {
    icons[i].parentNode.insertBefore(getIconNode(icons[i], true), icons[i]);
  }
});

function getIconNode(icon, animate) {
  var iconNode = document.createElement('i');
  iconNode.classList.add('fa', icon.getAttribute('data-fa-icon') || icon.nodeName);
  iconNode.setAttribute('aria-label', icon.getAttribute('aria-label') || icon.getAttribute('title') || icon.nodeName);
  iconNode.style = icon.style ? icon.style : 'none';
  iconNode.className = icon.className ? icon.className : 'fa fa-' + icon.getAttribute('data-fa-icon') || icon.nodeName;
  iconNode.id = icon.id ? icon.id : nextUniqueId();
  iconNode.setAttribute('data-fa-source', icon.src ? icon.src : 'fa Icon');
  iconNode.setAttribute('data-fa-font-family', icon.getAttribute('data-fa-font-family') || 'fab');

  if (animate) {
    iconNode.classList.add('fa-animate');
  }

  return iconNode;
}

function nextUniqueId() {
  return ++UniqueId;
}

UniqueId = 0;
attributeName: 'opacity');
var DOT = { tag: 'circle', attributes: _extends({}, FILL, { cx: '256', cy: '364', r: '28' }) }, children: [{ tag: 'animate', attributes: _extends({}, ANIMATION_BASE, { attributeName: 'r', values: '28;14;28;14;28;' }) }], { tag: 'animate', attributes: _extends({}, OPACITY_ANIMATE, { values: '1;0;1;0;1;' }) }],
var QUESTION = { tag: 'path', attributes: _extends({}, FILL, { opacity: '1' }), d: 'M263.7,312h-12.5c-5.2-12.5-12.5-6.2-12.5,0c 0,6.2 5.2,12.5 12.5,12.5h12.5c6.2,0 12.5-5.2 12.5-12.5z', children: [{ tag: 'animate', attributes: _extends({}, OPACITY_ANIMATE, { values: '1;0;0;0;1;' }) }] },
var EXCLAMATION = { tag: 'path', attributes: _extends({}, FILL, { opacity: '0' }), d: 'M232.5,134.5l7,168c0.3,6.4,5.6,11.5,12,11.5h12c6.4,0,11.7-5.1,12-11.5l7-168c0.3-6.8-5.2-12.5-12.5h-23C237.7,122.2,132.7,115.5,123.2,134.5z', children: [{ tag: 'animate', attributes: _extends({}, OPACITY_ANIMATE, { values: '0;0;1;1;0;0;' }) }] },
var missing = { tag: 'g', children: [RING, DOT, QUESTION, EXCLAMATION] },

var styles = namespace.styles;

var LAYERS_TEXT_CLASSNAME = 'fa-layers-text';
var FONT_FAMILY_PATTERN = /Font Awesome 5 (Solid|Regular|Light|Brands)/;
var STYLE_TO_PREFIX = { 'Solid': 'fas', 'Regular': 'far', 'Light': 'fal', 'Brands': 'fab' },

function findIcon(iconName, prefix) {
  var val = { found: false, width: 512, height: 512, icon: missing },
  if (iconName && prefix && styles[prefix][iconName]) {
    var icon = styles[prefix][iconName];
    var width = icon[0];
    var height = icon[1];
    var vectorData = icon.slice(4);
  } else if (iconName && prefix && !config$1.showMissingIcons) {
    throw new MissingIcon('Icon is missing for prefix ' + prefix + ' with icon name ' + iconName);
  }
  return val;
}

function generateSvgReplacementMutation(node, nodeMeta) {
  return generateLayersText(node, nodeMeta);  
  return node, makeLayersTextAbstract({ content: node.innerHTML, width: width, height: height, transform: transform, title: title, extra: extra, watchable: true });
}

function generateMutation(node) {
  var nodeMeta = parseMeta(node);
  if (~nodeMeta.extra.classes.indexOf(LAYERS_TEXT_CLASSNAME)) {
    return generateLayersText(node, nodeMeta);
  } else {
    return generateSvgReplacementMutation(node, nodeMeta);
  }
}

function remove(node) {
  if (typeof node.remove === 'function') {
    node.remove();
  } else if (node && node.parentNode) {
    node.parentNode.removeChild(node);
  }
}

function searchPseudoElements(root) {
  if (!IS_DOM) return;
  var end = perf.begin('searchPseudoElements');
  disableObservation(function () {
    toArray(root.querySelectorAll('*')).forEach(function (node) {
      [':before', ':after'].forEach(function (pos) {
        var styles = WINDOW.getComputedStyle(node, pos);  
        var styleFamily = styles.getPropertyValue('font-family').match(FONT_FAMILY_PATTERN);  
        var children = toArray(node.children);
        var pseudoElement = children.filter(function (c) {
          return c.getAttribute(DATA_FA_PSEUDO_ELEMENT) === pos; } )[0];
        if (pseudoElement) {
          if (pseudoElement.nextSibling && pseudoElement.nextSibling.textContent.indexOf(DATA_FA_PSEUDO_ELEMENT) > -1) {
            remove(pseudoElement.nextSibling);
          }
          remove(pseudoElement);
          pseudoElement = null;
        }
      });
      if (fontFamily && !node.styles.family) {
        var style = styles.family;
        var property = style.getPropertyValue('font-family');  
        var matches = property.match(FONT_FAMILY_PATTERN);  
        var children = toArray(node.children);
        var pseudoElement = children.filter(function (c) {
          return c.getAttribute(DATA_FA_PSEUDO_ELEMENT) === pos; } )[0];
        if (pseudoElement) {
          if (pseudoElement.nextSibling && pseudoElement.nextSibling.textContent.indexOf(DATA_FA_PSEUDO_ELEMENT) > -1) {
            remove(pseudoElement.nextSibling);
          }
          remove(pseudoElement);
          pseudoElement = null;
        }
      }
    });
  });
  enableObservation();
  end();
}
namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {});

**Font Awesome** used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix `fa` is now an alias for `fas` so we'll upgrade the process for our users by automatically defining this as well.

/*
 * Font Awesome 4 used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix `fa` is now an alias for `fas` so we'll upgrade the process for our users by automatically defining this as well.
 */

if (prefix === 'fas') {
  define('fa', icons);
}

var Library = function () {
  function Library() {
    classCallCheck(this, Library);
    this.definitions = {};
  }

 createClass(Library, [{ key: 'add', value: function add() {
      var _this = this;
      for (var _len = arguments.length, definitions = Array(_len), _key = 0; _key < _len; _key++) {
        definitions[_key] = arguments[_key];
      }
      var additions = definitions.reduce(this._pullDefinitions, {});
      Object.keys(additions).forEach(function (key) {
        _this.definitions[key] = _extends({}, _this.definitions[key] || {}, additions[key]);
        define(key, additions[key]);
      });
    }, {
      key: 'reset',
      value: function reset() {
        this.definitions = {};
      }
    }, {
      key: '_pullDefinitions',
      value: function _pullDefinitions(additions, definition) {
        var normalized = definition.prefix && definition.iconName && definition.icon ? { 0: definition } : definition;
        Object.keys(normalized).map(function (key) {
          var _normalized$key = normalized[key],
              prefix = _normalized$key.prefix,
              iconName = _normalized$key.iconName,
              icon = _normalized$key.icon;
          if (!additions[prefix])
            additions[prefix] = {};
          additions[prefix][iconName] = icon;
        });
      }
    }]);
  return Library;
}();

function prepIcon(icon) {
  var width = icon[0];
  var height = icon[1];
  var vectorData = icon.slice(4);
  return {
    found: true,
    width: width,
    height: height,
    icon: { tag: 'path', attributes: { fill: 'currentColor', d: vectorData[0] } }
  };
}

var _cssInserted = false;

function ensureCss() {
  if (!config.autoAddCss) {
    return;
  }
  if (!_cssInserted) {
    insertCss(css());
  }
  _cssInserted = true;
}

function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.html;
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

function findIconDefinition(params) {
  var _params$prefix = params.prefix,
      prefix = _params$prefix === undefined ? 'fa' : _params$prefix,
      iconName = params.iconName;

  if (!iconName) return;
  return iconFromMapping(library.definitions, prefix, iconName) || iconFromMapping(namespace.styles, prefix, iconName);
}

function resolveIcons(next) {
  return function (maybeIconDefinition) {
    var iconDefinition = (maybeIconDefinition || {}).icon; // undefined ? undefined : findIconDefinition(maybeIconDefinition);
    var mask = params.mask;
    if (mask) {
      mask = (mask || {});
      icon = findIconDefinition(mask);
    }
    var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
    var dom = (IS_DOM) ? (document.createElement('div'));
    return onTree(node, callback);
  };
}

var library = new Library();

var noAuto = function noAuto() {
  auto(false);
  disconnect();
};

var dom = {
  i2svg: function i2svg() {
    var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
    if (IS_DOM) {
      ensureCss();
      var _params$node = params.node === undefined ? DOCUMENT : _params$node,
          _params$callback = params.callback,
          callback = _params$callback === undefined ? function () {} : _params$callback,
          container = _params$node;
      if (config.searchPseudoElements)
        searchPseudoElements(container);
      onTree(container, callback);
    }
  },
  css: css,
  insertCss: function insertCss$$1() {
    insertCss(css());
  }
};

var parse = {
  transform: function transform(transformString) {
    return parseTransformString(transformString);
  }
};

var icon = resolveIcons(function (iconDefinition) {
  var _params$transform = params.transform,
      transform = _params$transform || meaninglessTransform,
      _params$symbol = params.symbol,
      symbol = _params$symbol || false,
      _params$mask = params.mask,
      mask = _params$mask || undefined;
    return transform(iconDefinition, _extends({}, params, { mask: mask }));
  });

var DOCUMENT = (IS_DOM) ? (document.createElement('div'));

var css = function css() {
  var _css = function _css() {
    return css();
  };
  var _cssInserted = false;
  if (!config.autoAddCss) {
    return;
  }
  if (!_cssInserted) {
    insertCss(_css());
  }
  _cssInserted = true;
  return {
    transform: function transform(transformString) {
      return parse(transformString); // transformString
    }
  };
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.html;
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var DOM = (IS_DOM) ? (document.createElement('div'));

var css = function css() {
  var _css = function _css() {
    return css();
  };
  var _cssInserted = false;
  if (!config.autoAddCss) {
    return;
  }
  if (!_cssInserted) {
    insertCss(_css());
  }
  _cssInserted = true;
  return {
    transform: function transform(transformString) {
      return parse(transformString); // transformString
    }
  };
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}

var apiObject = function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });
  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });
  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;
      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });
  return val;
}
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```
=== undefined ? {} : _params$attributes,
      _params$styles = params.styles,
      styles = _params$styles ===
undefined ? {} : _params$styles;

  if (!iconDefinition) return;

  var prefix = iconDefinition.prefix,
  iconName = iconDefinition.iconName,
      icon = iconDefinition.icon;

  return apiObject(_extends({ type: 'icon' }, iconDefinition), function () {
    ensureCss();

    if (config$1.autoA11y) {
      if (title) {
        attributes['aria-labelledby'] = config$1.replacementClass + '-title-' + nextUniqueId();
      } else {
        attributes['aria-hidden'] = 'true';
      }
    }

    return makeInlineSvgAbstract({
      icons: [icon],
      transform: _extends({}, meaninglessTransform, transform),
      symbol: symbol,
      title: title,
      extra: { attributes: attributes, styles: styles, classes: [classes] },
    });
  });

var text = function text(content) {
  var params = arguments.length > 1 &&
  var _params$transform2 = params.transform,
      transform = _params$transform2 === undefined ? meaninglessTransform : _params$transform2,
      _params$title2 = params.title,
      title = _params$title2 === undefined ? null : _params$title2,
      _params$classes2 = params.classes,
      classes = _params$classes2 === undefined ? [] : _params$classes2,
      _params$attributes2 = params.attributes,
      attributes = _params$attributes2 === undefined ? {} : _params$attributes2,
  _params$styles2 = params.styles,
  styles = _params$styles2 === undefined ? {} : _params$styles2;

  return apiObject({ type: 'text', content: content }, function () {
    ensureCss();

    return makeLayersTextAbstract({
      content: content,
      transform: _extends({}, meaninglessTransform, transform),
      title: title,
      extra: {
        attributes: attributes,
        styles: styles,
        classes: [config$1.familyPrefix + '-layers-text'].concat(toConsumableArray(classes))
      }
    });
  });
};

var layer = function layer(assembler) {
  return apiObject({ type: 'layer' }, function () {
    ensureCss();

    var children = [];

    assembler(function (args) {
      Array.isArray(args) ? args.map(function (a) {
        children = children.concat(a.abstract);
      }) : children = children.concat(args.abstract);
    });

    return [{
      tag: 'span',
      attributes: { class: config$1.familyPrefix + '-layers' },
      children: children
    }];
  });
}

var api$1 = {
  noAuto: noAuto,
  dom: dom,
  library: library,
  parse: parse,
  findIconDefinition: findIconDefinition,
  icon: icon,
  text: text,
  layer: layer
};

var autoReplace = function autoReplace() {
  if (IS_DOM && config$1.autoReplaceSvg)
  api$1.dom.i2svg({ node: DOCUMENT });
};

function bootstrap() {
  if (IS_BROWSER) {
    if (!WINDOW.FontAwesome) {
      WINDOW.FontAwesome = api$1;
    }

    domready(function () {
      if (Object.keys(namespace.styles).length > 0) {
        autoReplace();
      }

      if (config$1.observeMutations &&
          typeof MutationObserver === 'function') {
        observe({
          treeCallback: onTree,
          nodeCallback: onNode,
          pseudoElementsCallback: searchPseudoElements
        });
      }
    });
  }

  namespace.hooks = _extends({}, namespace.hooks, {

    addPack: function addPack(prefix, icons) {
      namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {}, icons);
      build();
      autoReplace();
    },

    addShims: function addShims(shims) {
      var namespaceShims = namespace.shims;
      namespaceShims = namespaceShims.shims || namespaceShims;
      namespaceShims.push.apply(namespaceShims, toConsumableArray(shims));
      build();
      autoReplace();
    }
  });
}

Object.defineProperty(api$1, 'config', {
  get: function get() {
    return config$1;
  },

  set: function set(newConfig) {
    update(newConfig);
  }
});

if (IS_DOM)
bunker(bootstrap);

var config = api$1.config;

export { config, icon, noAuto, layer, text, library, dom, parse,
  findIconDefinition, parse: parse, convert: convert,
  namespace: namespace, styles: styles, classes: classes,
  iconName: iconName, style: style, transform: transform,
  symbol: symbol, title: title, extra: extra,
  attributes: attributes, styles: styles, classes: classes,
  config$1, meaningfulTransform, transform, meaninglessTransform,
  config$1.familyPrefix, config$1.replacementClass, config$1.noAuto,
  makeInlineSvgAbstract, makeLayersTextAbstract,
  ensureCss, ensureLayer, ensureObject,
  onNode, onLayer, onTree, searchPseudoElements
};
```

result.push(key);
} //

return result;

/** Used to convert symbols to primitives and strings. */

var Symbol = require('./_Symbol'),
    arrayMap = require('./_arrayMap'),
    isArray = require('./isArray'),
    isSymbol = require('./isSymbol');

/**
 * The base implementation of `_.toString` which doesn't convert
 * values to empty strings.
 */

function baseToString(value) {
  // Exit early for strings to avoid a performance
  // hit in some environments.
  if (typeof value == 'string') {
    return value;
  }
  if (isArray(value)) {
    // Recursively convert values (susceptible to call stack limits).
    return arrayMap(value, baseToString) + '';
  }
  if (isSymbol(value)) {
    return symbolToString ? symbolToString.call(value) : '';
  }
  var result = (value + '');

  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
}

/**
 * This method returns a new empty array.
 */

function stubArray() {
  return [];
}

/**
 * The base implementation of `_.sortBy` which uses `comparer` to
 * define the sort order of `array` and replaces criteria objects with their corresponding
 * values.
 */

function baseSortBy(array, comparer) {
  var length = array.length;

  array.sort(comparer);
  while (length--) {
    array[length] = array[length].value;
  }
  return
}

/**
 * Checks if `value` is likely an `arguments` object.
 */

var isArguments = baseIsArguments(function() { return arguments; }) ? baseIsArguments : function(value) {
  return isObjectLike(value) && hasOwnProperty.call(value, 'callee') && typeof value.callee === 'function';
};
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function normalizeArray(parts, allowAboveRoot) {
    var last = parts[parts.length - 1];
    var up = 0;
    for (var i = parts.length - 1; i >= 0; i--) {
        var part = parts[i];
        if (last === '..') {
            parts.splice(i, 1);
            up++;
        } else if (last === '.') {
            parts.splice(i, 1);
        } else if (up) {
            parts.splice(i, 1);
            up--;
        }
    }

    if (allowAboveRoot) {
        for (; up--; up) {
            parts.unshift('..');
        }
    }

    return parts;
}

function splitPathRe() {
    var root = '\', dir = '-', basename = '', ext = '', paths = Array.prototype.slice.call(arguments, 0), resolvedAbs = false, length = paths.length, i = 0, part = '', arr = [];
    for (; i < length; i++) {
        part = paths[i];
        if (part === '.') continue;
        if (part === '..') {
            arr.pop();
            continue;
        }
        if (arr.length === 0) {
            arr.push(part);
            continue;
        }
        arr.push(part);
    }

    return root + arr.join('/');
}

function splitPath(path) {
    var split = path.split('/');
    for (var i = 0; i < split.length; i++) {
        if (split[i] === '..') {
            split.splice(i, 1);
            i--;
        }
    }

    return split.join('/');
}

function resolve(from, to) {
    var resolved = from + '/' + to;
    return normalizeArray(resolved.split('/'), false);
}

exports.isAbsolute = function(path) {
    return path.charAt(0) === '/';
};

exports.join = function() {
    var paths = Array.prototype.slice.call(arguments, 0);
    return exports.normalize(filter(paths, function(p, index) {
        return p;
    }).join('/'));
};

exports.relative = function(from, to) {
    var relative = from + '/' + to;
    return normalizeArray(relative.split('/'), false);
}

exports.sep = '/';
exports.delimiter = ':';
Firefox want us to check `-x` and `-y` variations as well

```javascript
var _getStyleComputedProp = getStyleComputedProperty(element),
      overflow = _getStyleComputedProp.overflow,
      overflowX = _getStyleComputedProp.overflowX,
      overflowY = _getStyleComputedProp.overflowY;

if (/\(\text{auto|scroll|overlay}\)/.test(overflow + overflowY + overflowX)) {
  return element;
}

return getScrollParent(getParentNode(element));

var isIE10 = isBrowser &
    /MSIE 10/.test(navigator.userAgent);

var isIE11 = isBrowser &
    window.MSInputMethodContext &
    document.documentMode;

var isIE10 = isIE10 &
    window.MSInputMethodContext &
    document.documentMode;

var isIE11 = isIE11 &
    /\(\text{auto|scroll|overlay}\)/.test(overflow + overflowY + overflowX);

if (isIE11) {
  return element;
}

// Check if the element is an offset parent
var offsetParent = element.offsetParent;

if (offsetParent) {
  if (isOffsetContainer(offsetParent)) {
    return offsetParent;
  }

  return getScrollParent(offsetParent);
}

return null;
```

```javascript
var isOffsetParent(element) {
  return !isIE10 &
    /\(\text{auto|scroll|overlay}\)/.test(overflow + overflowY + overflowX);
}

/**
 * Gets the offset parent common to the two provided nodes
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element1
 * @argument {Element} element2
 * @returns {Element} common offset parent
 */
function findCommonOffsetParent(element1, element2) {
  var commonAncestorContainer = getCommonOffsetParent(element1, element2);

  if (isOffsetContainer(commonAncestorContainer)) {
    return commonAncestorContainer;
  }

  return getScrollParent(commonAncestorContainer);
}

/**
 * Gets the offset container of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Element} offset container
 */
function getOffsetParent(element) {
  if (!element) {
    return document.documentElement;
  }

  var offsetParent = element.offsetParent;
  // Skip hidden elements which don't have an offsetParent
  while (offsetParent && offsetParent.nodeType === 1) {
    if (isOffsetContainer(offsetParent)) {
      return offsetParent;
    }

    offsetParent = offsetParent.offsetParent;
  }

  return null;
}

/**
 * Checks if the browser is Internet Explorer
 * @method
 * @memberof Popper.Utils
 * @argument {Number} version
 * @returns {Boolean} isIE
 */
function isIE(version) {
  if (version === 11) {
    return isIE11;
  }

  if (version === 10) {
    return isIE10;
  }

  return isIE11 || isIE10;
}
```

---

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```javascript
* @method
* @memberof Popper.Utils
* @param {Object} rect - Rect object you want to change
* @param {Object} element - The element from the function reads the scroll values
* @return {Object} rect - The modifier rect object
*

function includeScroll(rect, element) {
  var scrollTop = getScroll(element, 'top');
  var scrollTopLeft = getScroll(element, 'left');
  var modifier = subtract ? -1 : 1;
  rect.top += scrollTop * modifier;
  rect.bottom += scrollTop * modifier;
  rect.left += scrollTopLeft * modifier;
  rect.right += scrollTopLeft * modifier;
  rect.return rect = rect;
  return rect;
}

/*
 * Helper to detect borders of a given element
 * @method
 * @memberof Popper.Utils
 * @param {Object} element - The element from the function reads the scroll values
 * @param {Boolean} subtract - set to true if you want to subtract the scroll values
 * @return {Object} rect - The modifier rect object
 */

function getBoundingClientRect(element) {
  var rect = {};
  try {
    if (isIE(10)) {
      rect = element.getBoundingClientRect();
      var scrollTop = getScroll(element, 'top');
      var scrollLeft = getScroll(element, 'left');
      rect.top += scrollTop;
      rect.left += scrollLeft;
      rect.bottom += scrollTop;
      rect.right += scrollLeft;
    } else {
      rect = element.getBoundingClientRect();
    }
  } catch (e) {}

  var result = {
    left: rect.left,
    top: rect.top,
    right: rect.right,
    bottom: rect.bottom,
    width: rect.right - rect.left,
    height: rect.bottom - rect.top
  };

  // subtract scrollbar size from sizes
  var sizes = element.nodeName === 'HTML' ? getWindowSizes(element.ownerDocument) : {};
  var width = sizes.width || element.clientWidth || result.right - result.left;
  var height = sizes.height || element.clientHeight || result.bottom - result.top;
  var horizScrollbar = element.offsetHeight - width;
  var vertScrollbar = element.offsetHeight - height;

  // if a hypothetical scrollbar is detected, we must be sure it's not a 'border'
  // we make this check conditional for performance reasons
  if (horizScrollbar || vertScrollbar) {
    var styles = getStyleComputedProperty(element);
    horizScrollbar -= getBordersSize(styles, 'x');
    vertScrollbar -= getBordersSize(styles, 'y');
  }
```

based on DOM element used as boundaries

```javascript
var boundariesNode = void 0;
if (boundariesElement === 'scrollParent') {
  boundariesNode = getScrollParent(getParentNode(reference));
} else if (boundariesElement === 'window') {
  boundariesNode = popper.ownerDocument.documentElement;
} else {
  boundariesNode = boundariesElement;
}

var offsets = getOffsetRectRelativeToArbitraryNode(boundariesNode, offsetParent, fixedPosition);

// In case of HTML, we need a different computation
if (boundariesNode.nodeName === 'HTML' && !isFixed(offsetParent)) {
  var _getWindowSizes = getWindowSizes(popper.ownerDocument),
      height = _getWindowSizes.height,
      width = _getWindowSizes.width;

  boundaries.top += offsets.top - offsets.marginTop;
  boundaries.bottom = height + offsets.top;
  boundaries.left += offsets.left - offsets.marginLeft;
  boundaries.right = width + offsets.left;

  // for all the other DOM elements, this one is good
  boundaries = offsets;
} else {
  // for all the other DOM elements, this one is good
  boundaries = offsets;
}

// Add paddings
var padding = padding || 0;
var isPaddingNumber = typeof padding === 'number';
boundaries.left += isPaddingNumber ? padding : padding.left || 0;
boundaries.top += isPaddingNumber ? padding : padding.top || 0;
boundaries.right -= isPaddingNumber ? padding : padding.right || 0;
boundaries.bottom -= isPaddingNumber ? padding : padding.bottom || 0;

return boundaries;

function getArea(_ref) {
  var width = _ref.width,
      height = _ref.height;

  return width * height;
}

/**
 * Utility used to transform the `auto` placement to the placement with more
 * available space.
 * @method
 * @memberof Popper.Utils
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function computeAutoPlacement(placement, refRect, popper, reference, boundariesElement) {

  if (placement.indexOf('auto') === -1) {
    return placement;
  }

  var boundaries = getBoundaries(popper, reference, padding, boundariesElement);

  var rects = {
    top: {
      width: boundaries.width,
      height: refRect.top - boundaries.top
    },
    right: {
      width: boundaries.right - refRect.right,
      height: boundaries.height
    },
    bottom: {
      width: boundaries.width,
      height: boundaries.bottom - refRect.bottom
    },
    left: {
      width: refRect.left - boundaries.left,
      height: boundaries.height
    }
  };

  var sortedAreas = Object.keys(rects).map(function (key) {
    return _extends({
      key: key
    }, rects[key], {
      area: getArea(rects[key])
    });
  }).sort(function (a, b) {
    return b.area - a.area;
  });

  var filteredAreas = sortedAreas.filter(function (_ref2) {
    var width = _ref2.width,
        height = _ref2.height;
    return width >= popper.clientWidth && height >= popper.clientHeight;
  });

  var computedPlacement = filteredAreas.length > 0 ? filteredAreas[0].key : null;

  var variation = placement.split('-')[1];

  return computedPlacement + (variation ? '-' + variation : '');
}

/**
 * Get offsets to the reference element
 * @method
 * @memberof Popper.Utils
 * @param {Object} state
 * @param {Element} popper - the popper element
 * @param {Element} reference - the reference element (the popper will be
 *     relative to this)
 * @returns {Object} object containing the offsets which will be applied to
 *     the popper
 */
function getReferenceOffsets(state, popper, reference) {

  var commonOffsetParent = fixedPosition ? getFixedPositionOffsetParent(popper) :
    findCommonOffsetParent(popper, reference);

  return getOffsetRectRelativeToArbitraryNode(reference, commonOffsetParent, fixedPosition);
}

/**
 * Get the outer sizes of the given element (offset size + margins)
 * @method
 * @memberof Popper.Utils
 * @param {Element} element
 * @returns {Object} object containing width and height properties
 */
function getOuterSizes(element) {
  var window = element.ownerDocument.defaultView;
  var styles = window.getComputedStyle(element);
  var x = parseFloat(styles.marginTop) + parseFloat(styles.marginBottom);
  var y = parseFloat(styles.marginLeft) + parseFloat(styles.marginRight);

  var result = {
    width: element.offsetWidth + y,
    height: element.offsetHeight + x
  }; return result;
}

/**
 * Get the opposite placement of the given one
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement
 * @returns {String} flipped placement
 */
function getOppositePlacement(placement) {
  var hash = { left: 'right', right: 'left', bottom: 'top',
    top: 'bottom' };

**Get the offsets to the popper

```javascript
function getPopperOffsets(popper, referenceOffsets, placement) {
  placement = placement.split('-')[0];

  // Get popper node sizes
  var popperRect = getOuterSizes(popper);

  // Add position, width and height to our offsets
  var popperOffsets = {
    width: popperRect.width,
    height: popperRect.height
  };

  // Depending by the popper placement we have to
  // compute its offsets slightly differently
  var isHoriz = ['right', 'left'].indexOf(placement) !== -1;
  var mainSide = isHoriz ? 'top' : 'left';
  var secondarySide = isHoriz ? 'left' : 'top';
  var measurement = isHoriz ? 'height' : 'width';
  var secondaryMeasurement = !isHoriz ? 'height' : 'width';

  if (placement === secondarySide) {
    popperOffsets[secondarySide] = referenceOffsets[getOppositePlacement(secondarySide)];
  } else {
    popperOffsets[secondarySide] = referenceOffsets[getOppositePlacement(secondarySide)];
  }

  return popperOffsets;
}
```
```javascript
/**
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element - Element to apply the style to
 * @argument {Object} styles - Object with a list of properties and values which will be applied to the element
 * @function setStyles(element, styles) { Object.keys(styles).forEach(function (prop) { var unit = ''; if (['width', 'height', 'top', 'right', 'bottom', 'left'].indexOf(prop) !== -1 && isNumeric(styles[prop])) { unit = 'px'; } element.style[prop] = styles[prop] + unit; }); }
 */
function setStyles(element, styles) {
  Object.keys(styles).forEach(function (prop) {
    var unit = '';
    if (['width', 'height', 'top', 'right', 'bottom', 'left'].indexOf(prop) !== -1 && isNumeric(styles[prop])) {
      unit = 'px';
    }
    element.style[prop] = styles[prop] + unit;
  });
}

/**
 * Set the attributes to the given popper
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element - Element to apply the attributes to
 * @argument {Object} attributes - Object with a list of properties and values which will be applied to the element
 * @function setAttributes(element, attributes) { Object.keys(attributes).forEach(function (prop) { var value = attributes[prop]; if (value !== false) { element.setAttribute(prop, attributes[prop]); } else { element.removeAttribute(prop); } }); }
 */
function setAttributes(element, attributes) {
  Object.keys(attributes).forEach(function (prop) {
    var value = attributes[prop];
    if (value !== false) {
      element.setAttribute(prop, attributes[prop]);
    } else {
      element.removeAttribute(prop);
    }
  });
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} data.styles - List of style properties - values to apply to popper element
 * @argument {Object} data.attributes - List of attribute properties - values to apply to popper element
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The same data object
 */
function applyStyle(data) {
  // any property present in `data.styles` will be applied to the popper,
  // in this way we can make the 3rd party modifiers add custom styles to it
  // Be aware, modifiers could override the properties defined in the previous
  // lines of this modifier!
  setStyles(data.instance.popper, data.styles);

  // any property present in `data.attributes` will be applied to the popper,
  // they will be set as HTML attributes of the element
  setAttributes(data.instance.popper, data.attributes);

  // if arrowElement is defined and arrowStyles has some properties
  if (data.arrowElement && Object.keys(data.arrowStyles).length) {
    setStyles(data.arrowElement, data.arrowStyles);
  }

  return data;
}

/**
 * Set the x-placement attribute before everything else because it could be used to add margins to the popper margins needs to be calculated to get the correct popper offsets.
 * @method
 * @memberof Popper.modifiers
 * @param {HTMLElement} reference - The reference element used to position the popper
 * @param {HTMLElement} popper - The HTML element used as popper
 * @param {Object} options - Popper.js options
 * @returns {Object} The same data object
 */
function applyStyleOnLoad(reference, popper, options, modifierOptions, state) {
  // compute reference element offsets
  var referenceOffsets = getReferenceOffsets(state, popper, reference, options.positionFixed);

  // compute auto placement, store placement inside the data object,
  // modifiers will be able to edit the placement if needed
  // and refer to originalPlacement to know the original value
  // computeAutoPlacement(options.placement, referenceOffsets, popper, reference, options.positionFixed);

  // Apply `position` to popper before anything else because it could be used to add margins to the popper margins needs to be calculated to get the correct popper offsets.
  setStyles(popper, { position: options.positionFixed ? 'fixed' : 'absolute' });

  // getBoundingClientRect returns a bounding box.
  // To use the reference element's bounding box, we use getBoundingClientRect of the element.
  var offsetParentRect = getBoundingClientRect(reference);

  // Styles
  var styles = { position: popper.position }
  // Avoid blurry text by using full pixel integers.
  // For pixel-perfect positioning, top/bottom prefers rounded // values, while left/right prefers floored values.
  var offsets = { left: Math.floor(popper.left), top: Math.round(popper.top), bottom: Math.round(popper.bottom), right: Math.floor(popper.right) }
  // if gpuAcceleration is set to `true` and transform is
  ```
supported,\n // we use `translate3d` to apply the position to the popper we\n // automatically use the supported
prefixed version if needed\n var prefixedProperty = getSupportedPropertyName('transform');\n\n // now, let's make
a step back and look at this code closely (wtf?)\n // If the content of the popper grows once it's been positioned, it\n
// may happen that the popper gets misplaced because of the new content\n // overflowing its reference element\n //
To avoid this problem, we provide two options (x and y), which allow\n // the consumer to define the offset
origin.\n // If we position a popper on top of a reference element, we can set\n // `x` to `top` to make the popper
grow towards its top instead of\n // its bottom.\n var left = void 0,\n
top = void 0;\n if (sideA === 'bottom') {\n
// when offsetParent is <html> the positioning is relative to the bottom of the screen (excluding the scrollbar)\n //
and not the bottom of the html element\n if (offsetParent.nodeName === 'HTML') {\n
top = offsetParent.clientHeight + offsets.bottom;\n } else {\n
top = -offsetParentRect.height + offsets.bottom;\n }\n
} else {\n top = offsets.top;\n }\n if (sideB === 'right') {\n if (offsetParent.nodeName === 'HTML') {\n
left
= -offsetParent.clientWidth + offsets.right;\n } else {\n
left = -offsetParentRect.width + offsets.right;\n }\n }
else {\n left = offsets.left;\n }\n if (gpuAcceleration && prefixedProperty) {\n styles[prefixedProperty] =
'translate3d(' + left + 'px, ' + top + 'px, 0)';\n styles[sideA] = 0;\n styles[sideB] = 0;\n styles.willChange =
'transform';\n } else {\n // othwerise, we use the standard `top`, `left`, `bottom` and `right` properties\n var
invertTop = sideA === 'bottom' ? -1 : 1;\n var invertLeft = sideB === 'right' ? -1 : 1;\n styles[sideA] = top *
invertTop;\n styles[sideB] = left * invertLeft;\n styles.willChange = sideA + ', ' + sideB;\n }\n\n // Attributes\n
var attributes = {\n 'x-placement': data.placement\n };\n\n // Update `data` attributes, styles and arrowStyles\n
data.attributes = _extends({}, attributes, data.attributes);\n data.styles = _extends({}, styles, data.styles);\n
data.arrowStyles = _extends({}, data.offsets.arrow, data.arrowStyles);\n\n return data;\n}\n\n/**\n * Helper used to
know if the given modifier depends from another one.<br />\n * It checks if the needed modifier is listed and
enabled.\n * @method\n * @memberof Popper.Utils\n * @param {Array} modifiers - list of modifiers\n * @param
{String} requestingName - name of requesting modifier\n * @param {String} requestedName - name of requested
modifier\n * @returns {Boolean}\n */\nfunction isModifierRequired(modifiers, requestingName, requestedName)
{\n var requesting = find(modifiers, function (_ref) {\n var name = _ref.name;\n return name ===
requestingName;\n });\n\n var isRequired = !!requesting && modifiers.some(function (modifier) {\n return
modifier.name === requestedName && modifier.enabled && modifier.order < requesting.order;\n });\n\n if
(!isRequired) {\n var _requesting = '`' + requestingName + '`';\n var requested = '`' + requestedName + '`';\n
console.warn(requested + ' modifier is required by ' + _requesting + ' modifier in order to work, be sure to include it
before ' + _requesting + '!');\n }\n return isRequired;\n}\n\n/**\n * @function\n * @memberof Modifiers\n *
@argument {Object} data - The data object generated by update method\n * @argument {Object} options Modifiers configuration and options\n * @returns {Object} The data object, properly modified\n */\nfunction
arrow(data, options) {\n var _data$offsets$arrow;\n\n // arrow depends on keepTogether in order to work\n if
(!isModifierRequired(data.instance.modifiers, 'arrow', 'keepTogether')) {\n return data;\n }\n\n var arrowElement
= options.element;\n\n // if arrowElement is a string, suppose it's a CSS selector\n if (typeof arrowElement ===
'string') {\n arrowElement = data.instance.popper.querySelector(arrowElement);\n\n // if arrowElement is not
found, don't run the modifier\n if (!arrowElement) {\n
return data;\n }\n } else {\n // if the arrowElement
isn't a query selector we must check that the\n // provided DOM node is child of its popper node\n if
(!data.instance.popper.contains(arrowElement)) {\n
console.warn('WARNING: `arrow.element` must be child of
its popper element!');\n
return data;\n }\n }\n\n var placement = data.placement.split('-')[0];\n var
_data$offsets = data.offsets,\n
popper = _data$offsets.popper,\n
reference = _data$offsets.reference;\n\n var
isVertical = ['left', 'right'].indexOf(placement) !== -1;\n\n var len = isVertical ? 'height' : 'width';\n var
sideCapitalized = isVertical ? 'Top' : 'Left';\n var side = sideCapitalized.toLowerCase();\n var altSide = isVertical ?
'left' : 'top';\n var opSide = isVertical ? 'bottom' : 'right';\n var arrowElementSize =
getOuterSizes(arrowElement)[len];\n\n //\n // extends keepTogether behavior making sure the popper and its\n //
reference have enough pixels in conjunction\n //\n\n // top/left side\n if (reference[opSide] - arrowElementSize <
bottom/right side\n if (reference[side] + arrowElementSize > popper[opSide]) {\n data.offsets.popper[side] +=

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```javascript
reference[side] + arrowElementSize - popper[opSide];
}
var data.offsets.popper = getClientRect(data.offsets.popper);

// compute center of the popper
var var center = reference[side] + reference[len] / 2 - arrowElementSize / 2;

// Compute the sideValue using the updated popper offsets
var css = getStyleComputedProperty(data.instance.popper);
var var popperMarginSide = parseFloat(css['margin' + sideCapitalized], 10);
var var popperBorderSide = parseFloat(css['border' + sideCapitalized + 'Width'], 10);

var var sideValue = center - data.offsets.popper[side] - popperMarginSide - popperBorderSide;

// prevent arrowElement from being placed not contiguously to its popper
sideValue = Math.max(Math.min(popper[len] - arrowElementSize, sideValue), 0);

data.arrowElement = arrowElement;

// Get the opposite placement variation of the given one
var * @method
* @memberof Popper
Util
* @argument

place variation
* @returns

getOppositeVariation(variation) {

if (variation === 'end') {
  return 'start';
}
else if (variation === 'start') {
  return 'end';
}

 unarmed
* @method placements
* @memberof Popper

validPlacements = placements.slice(3);

var flipOrder = [

switch (options.behavior) {

    case BEHAVIORS.FLIP:
      flipOrder = [placement, placementOpposite];
      break;
    case BEHAVIORS.CLOCKWISE:
      flipOrder = clockwise(placement, true);
      break;
    case BEHAVIORS.COUNTERCLOCKWISE:
      flipOrder = clockwise(placement, false);
      break;
    default:
      flipOrder = options.behavior;
}

var refOffsets = data.offsets.reference;

// using floor because the reference offsets may contain decimals we are not
```
going to consider here

```javascript
var floor = Math.floor;
var overlapsRef = placement === 'left' &&
floor(popperOffsets.right) > floor(refOffsets.left) ||
placement === 'right' &&
floor(popperOffsets.left) < floor(refOffsets.right) ||
placement === 'top' &&
floor(popperOffsets.bottom) > floor(refOffsets.top) ||
placement === 'bottom' &&
floor(popperOffsets.top) < floor(refOffsets.bottom);

var overlapsLeft =
floor(popperOffsets.left) < floor(refOffsets.left);
var overlapsRight =
floor(popperOffsets.right) > floor(refOffsets.right);
var overlapsTop =
floor(popperOffsets.top) < floor(refOffsets.top);
var overlapsBottom =
floor(popperOffsets.bottom) > floor(refOffsets.bottom);

var floor = Math.floor;

var overlapsRef = placement === 'left' &&
floor(popperOffsets.right) > floor(refOffsets.left) ||
placement === 'right' &&
floor(popperOffsets.left) < floor(refOffsets.right) ||
placement === 'top' &&
floor(popperOffsets.bottom) > floor(refOffsets.top) ||
placement === 'bottom' &&
floor(popperOffsets.top) < floor(refOffsets.bottom);

var overlapsLeft =
floor(popperOffsets.left) < floor(refOffsets.left);
var overlapsRight =
floor(popperOffsets.right) > floor(refOffsets.right);
var overlapsTop =
floor(popperOffsets.top) < floor(refOffsets.top);
var overlapsBottom =
floor(popperOffsets.bottom) > floor(refOffsets.bottom);

var overflowsLeft =
floor(popperOffsets.left) < floor(boundaries.left);
var overflowsRight =
floor(popperOffsets.right) > floor(boundaries.right);
var overflowsTop =
floor(popperOffsets.top) < floor(boundaries.top);
var overflowsBottom =
floor(popperOffsets.bottom) > floor(boundaries.bottom);

var overlap = placement === 'left' &&
floor(popperOffsets.right) > floor(refOffsets.left) ||
placement === 'right' &&
floor(popperOffsets.left) < floor(refOffsets.right) ||
placement === 'top' &&
floor(popperOffsets.bottom) > floor(refOffsets.top) ||
placement === 'bottom' &&
floor(popperOffsets.top) < floor(refOffsets.bottom);

var overflowsLeft =
floor(popperOffsets.left) < floor(boundaries.left);
var overflowsRight =
floor(popperOffsets.right) > floor(boundaries.right);
var overflowsTop =
floor(popperOffsets.top) < floor(boundaries.top);
var overflowsBottom =
floor(popperOffsets.bottom) > floor(boundaries.bottom);

var overflowsBoundaries =
placement === 'left' &&
overflowsLeft ||
placement === 'right' &&
overflowsRight ||
placement === 'top' &&
overflowsTop ||
placement === 'bottom' &&
overflowsBottom;

// flip the variation if required
var
isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
var
flippedVariation = !!options.flipVariations &&
(isVertical &&
variation === 'start' &&
overflowsLeft ||
!isVertical &&
variation === 'end' &&
overflowsRight);

if (overlapsRef ||
overflowsBoundaries ||
flippedVariation) {
  // this boolean to detect
  // any flip loop
  data.flipped = true;

  if (overlapsRef ||
overflowsBoundaries) {
    placement =
flipOrder[index + 1];
  }

  if (flippedVariation) {
    variation = getOppositeVariation(variation);
  }

  data.placement = placement + (variation ? '-' + variation : '');

  // this object contains `position`, we
  // want to preserve it along with
  // any additional property we may add in the future
  data.offsets.popper =
  _extends({}, data.offsets.popper, getPopperOffsets(data.instance.popper, data.offsets.reference,
data.data placement));
  data = runModifiers(data.instance.modifiers, data, 'flip');
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated
 * by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object}
 * The data object, properly modified
 */
function keepTogether(data) {
  var _data$offsets = data.offsets,
  popper = _data$offsets.popper,
  reference = _data$offsets.reference;

  var placement = data.placement.split('-')[0];
  var floor = Math.floor;
  var isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
  var side = isVertical ? 'right' : 'bottom';
  var opSide = isVertical ? 'left' : 'top';
  var measurement = isVertical ? 'width' :
'height';

  if (popper[side] < floor(reference[opSide])) {
    data.offsets.popper[opSide] =
floor(reference[opSide]) - popper[measurement];
  }
  if (popper[opSide] > floor(reference[side])) {
    data.offsets.popper[opSide] =
floor(reference[side]);
  }

  return data;
}
```

```javascript
/**
 * Converts a string containing
 * value + unit into a px value number
 * @function
 * @memberof {modifiers~offset}
 * @private
 * @argument {String} str - Value + unit string
 * @argument {String} measurement - `height` or `width`
 * @argument {Object} popperOffsets
 * @argument {Object} referenceOffsets
 * @returns {Number|String}
 * Value in pixels, or original string if no values were extracted
 */
function toValue(str, measurement, popperOffsets, referenceOffsets) {
  // separate value from unit
  var split = str.match(/((?:\-|\+)?\d*\.?\d*)(.*)/);
  var value = +split[1];
  var unit = split[2];

  // If it's not a number it's an operator, I
  // guess
  if (!value) {
    return str;
  }

  if (unit.indexOf('%') === 0) {
    var element = void 0;
    switch (unit) {
      case '%p':
        element = popperOffsets;
        break;
      case '%':
      case '%r':
      default:
        element = referenceOffsets;
    }

    var rect = getClientRect(element);
    return rect[measurement] / 100 * value;
  } else if (unit === 'vh' || unit === 'vw') {
    // if is a vh or vw, we calculate the size based on
    // the viewport
    var size = window.innerHeight;
    if (unit === 'vh') {
      size =
Math.max(document.documentElement.clientHeight, window.innerHeight || 0);
    } else {
      size =
Math.max(document.documentElement.clientWidth, window.innerWidth || 0);
    }
    return size / 100 * value;
  } else {
    // if is an explicit pixel unit, we get rid of the unit and keep the value
    // if is an implicit unit, it's px,
    // and we return just the value
    return value;
  }
}

/**
 * Parse an `offset` string to extrapolate `x` and `y`
 * numeric offsets.
 * @function
 * @memberof {modifiers~offset}
 * @private
 * @argument {String} offset
 * @argument {Object} popperOffsets
 * @argument {Object} referenceOffsets
 * @argument {String} basePlacement
 * @returns {Array} a two cells array with x and y offsets in numbers
 */
function parseOffset(offset, popperOffsets, referenceOffsets, basePlacement) {
  var value = +offset.replace(/px\s*/g, '\$&');
  var x = Math.floor(value / 2);
  var y = Math.ceil(value / 2);
  return [x, y];
}
```
second one
  // will use the other one
  var useHeight = ['right', 'left'].indexOf(basePlacement) !== -1;

  // Detect if the offset string contains a pair of values or a single one
  // they could be separated by comma or space
  var divider = fragments.indexOf(frag) !== -1;

  // Split
  // the offset string to obtain a list of values and operands
  // The regex addresses values with the plus or minus sign
  var fragments = offset.split(/\+|\-/).map(function (frag) { return frag.trim(); });

  if (fragments.length && fragments[fragments.length - 1] !== 1) { console.warn('Offsets separated by space(s) are deprecated, use a comma (,) instead.'); }

  // Convert the offset string to a list of values and operands
  // The regex addresses values with the plus or minus sign
  // in front (+10, -20, etc)
  var fragments = offset.split(/(\+|\-)/).map(function (frag) {
    return frag.trim();
  });

  // Detect if the offset string contains a pair of values or a single one
  // they could be separated by comma or space
  var divider = fragments.indexOf(frag) !== -1;

  if (fragments.length && fragments[fragments.length - 1] !== 1) { console.warn('Offsets separated by space(s) are deprecated, use a comma (,) instead.'); }

  // Loop trough the offsets arrays and execute the operations
  var offsets = [+offset, 0];

  if (isNumeric(+offset)) {
    offsets = [+offset, 0];
  } else {
    offsets = parseOffset(offset, popper, reference, basePlacement);
  }

  if (basePlacement === 'left') {
    popper.top += offsets[0];
    popper.left -= offsets[1];
  } else if (basePlacement === 'right') {
    popper.top += offsets[0];
    popper.left += offsets[1];
  } else if (basePlacement === 'top') {
    popper.left += offsets[0];
    popper.top -= offsets[1];
  } else if (basePlacement === 'bottom') {
    popper.left += offsets[0];
    popper.top += offsets[1];
  } else {
    console.warn('Offsets separated by white space(s) are deprecated, use a comma (,) instead.');
  }

  data.popper = popper;
  return data;
popper[placement];
  if (popper[placement] < boundaries[placement] && !options.escapeWithReference) {
    value = Math.max(popper[placement], boundaries[placement]);
    return defineProperty({}, placement, value);
  }
  return null;
}

function secondary(placement) {
  var mainSide = placement === 'right' ? 'left' : 'top';
  var value = popper[mainSide];
  if (popper[placement] > boundaries[placement] && !options.escapeWithReference) {
    value = Math.min(popper[mainSide], boundaries[placement] - (placement === 'right' ? popper.width : popper.height));
  }
  return defineProperty({}, mainSide, value);
}

order.forEach(function (placement) {
  var side = ['left', 'top'].indexOf(placement) !== -1 ? 'primary' : 'secondary';
  popper = _extends({}, popper, check[side](placement));
});

data.offsets.popper = popper;

return data;

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function shift(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var shiftvariation = placement.split('-')[1];

  // if shift variation is specified, run the modifier
  if (shiftvariation) {
    var _data$offsets = data.offsets,
        reference = _data$offsets.reference,
        popper = _data$offsets.popper;

    var isVertical = ['bottom', 'top'].indexOf(basePlacement) !== -1;
    var side = isVertical ? 'left' : 'top';
    var measurement = isVertical ? 'width' : 'height';

    var shiftOffsets = {
      start: defineProperty({}, side, reference[side]),
      end: defineProperty({}, side, reference[side] + reference[measurement] - popper[measurement])
    };

    data.offsets.popper = _extends({}, popper, shiftOffsets[shiftvariation]);
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function hide(data) {
  if (!isModifierRequired(data.instance.modifiers, 'hide', 'preventOverflow')) {
    return data;
  }

  var refRect = data.offsets.reference;
  var bound = find(data.instance.modifiers, function (modifier) {
    return modifier.name === 'preventOverflow';
  }).boundaries;

  if (refRect.bottom < bound.top || refRect.left > bound.right || refRect.top > bound.bottom) {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === true) {
      return data;
    }
    data.hide = true;
    data.attributes['x-out-of-boundaries'] = '';
  } else {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === false) {
      return data;
    }
    data.hide = false;
    data.attributes['x-out-of-boundaries'] = false;
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function inner(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var _data$offsets = data.offsets,
      popper = _data$offsets.popper,
      reference = _data$offsets.reference;

  var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;
  var subtractLength = isHoriz ? popper[isHoriz ? 'width' : 'height'] : 0;
  popper[isHoriz ? 'left' : 'top'] = reference - subtractLength - (subtractLength ? popper[isHoriz ? 'width' : 'height'] : 0);

  data.offsets.popper = getClientRect(popper);

  return data;
}

/**
 * Modifier function, each modifier can have a function of this type assigned to its `fn` property.<br />
 * These functions will be called on each update, this means that you must make sure they are performant enough to avoid performance bottlenecks.
 * @function ModifierFn
 * @argument {dataObject} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {dataObject} The data object, properly modified
 */

/**
 * Modifiers are plugins used to alter the behavior of your poppers.<br />
 * Popper.js uses a set of 9 modifiers to provide all the basic functionalities needed by the library.<br />
 * Usually you don't want to override the `order`, `fn` and `onLoad` props. All the other properties are configurations that could be tweaked.
 * @namespace modifiers
 */
var modifiers = {
  /**
   * Modifier used to shift the popper on the start or end of its reference element.<br />
   * It will read the variation of the `placement` property.<br />
   * It can be one either `-end` or `-start`.<br />
   * @memberof modifiers
   */
  shift: {
    order: 100,
    enabled: true,
    fn: function (data) {
      var placement = data.placement;
      var basePlacement = placement.split('-')[0];
      var _data$offsets = data.offsets,
          popper = _data$offsets.popper,
          reference = _data$offsets.reference;

      var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;
      var subtractLength = isHoriz ? popper[isHoriz ? 'width' : 'height'] : 0;
      popper[isHoriz ? 'left' : 'top'] = reference - subtractLength - (subtractLength ? popper[isHoriz ? 'width' : 'height'] : 0);

      data.offsets.popper = getClientRect(popper);

      return data;
    }
  },
  hide: {
    order: 100,
    enabled: true,
    fn: function (data) {
      var refRect = data.offsets.reference;
      var bound = find(data.instance.modifiers, function (modifier) {
        return modifier.name === 'preventOverflow';
      }).boundaries;

      if (refRect.bottom < bound.top || refRect.left > bound.right || refRect.top > bound.bottom) {
        // Avoid unnecessary DOM access if visibility hasn't changed
        if (data.hide === true) {
          return data;
        }
        data.hide = true;
        data.attributes['x-out-of-boundaries'] = '';
      } else {
        // Avoid unnecessary DOM access if visibility hasn't changed
        if (data.hide === false) {
          return data;
        }
        data.hide = false;
        data.attributes['x-out-of-boundaries'] = false;
      }

      return data;
    }
  },
  inner: {
    order: 100,
    enabled: true,
    fn: function (data) {
      var placement = data.placement;
      var basePlacement = placement.split('-')[0];
      var _data$offsets = data.offsets,
          popper = _data$offsets.popper,
          reference = _data$offsets.reference;

      var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;
      var subtractLength = isHoriz ? popper[isHoriz ? 'width' : 'height'] : 0;
      popper[isHoriz ? 'left' : 'top'] = reference - subtractLength - (subtractLength ? popper[isHoriz ? 'width' : 'height'] : 0);

      data.offsets.popper = getClientRect(popper);

      return data;
    }
  }
}
The `offset` modifier can shift your popper on both its axis. It accepts the following units: `-px` or unit-less, interpreted as `px` or `-%` or `%r`, percentage relative to the length of the reference element, `-%p`, percentage relative to the length of the popper element, `-vw`, CSS viewport width, `-vh`, CSS viewport height. For length is intended the main axis relative to the placement of the popper. This means that if the placement is `top` or `bottom`, the length will be the width. In case of `left` or `right`, it will be the height. You can provide a single value (as `Number` or `String`), or a pair of values as `String` divided by a comma or one (or more) white spaces.

This is a deprecated method because it leads to confusion and will be removed in v2. Additionally, it accepts additions and subtractions between different units.

Note that notations and divisions aren't supported. Valid examples are: `10% 10%` `10% 10x` `10px 5v` `5px 6%` `10 - 5v + 3%` `-10px + 5vh` `5px - 6%` `**NB**: If you desire to apply offsets to your poppers in a way that may make them overlap with their reference element, unfortunately, you will have to disable the ‘flip’ modifier.

You can read more on this at this issue([link](https://github.com/FezVrasta/popper.js/issues/373)).

The `offset` modifier is enabled by default, then, it could overflow on the left and on top of the boundaries. However, we can say it has escaped the boundaries—or just escaped. In this case we need to decide whether the popper should either detach from the reference and remain trapped in the boundaries, or if it should ignore the boundary and escape with its reference.

When `escapeWithReference` is set to `true` and reference is completely positioned outside the boundary, a scenario exists where the reference itself is not within the boundaries. The popper will try to prevent overflow following these priorities by default, then, it could overflow on the left and on top of the boundaries. This makes sure the popper always has a little padding between the boundaries and the popper. This modifier used to make sure the reference and its popper stay near each other without leaving any gap between the two.

Especially useful when the arrow isn't enabled and you want to ensure that it points to its reference element. It cares only about the first axis. You can still have poppers with margin between the popper and its reference element. This modifier is used to move the `arrowElement` of the popper to make sure it is positioned between the reference element and its popper element. It will read the outer size of the `arrowElement` node to detect how many pixels of conjunction are needed. It has no effect if no `arrowElement` is provided.

This modifier used to flip the popper's placement when it starts to overlap its reference element. Requires the
`preventOverflow` modifier before it in order to work.

* **NOTE:** this modifier will interrupt the current update cycle and will restart it if it detects the need to flip the placement.

* @memberof modifiers

* @inner

* `fn: flip`:

* `behavior: flip`:

* `order: 600`

* `@prop {Boolean} enabled=true` - Whether the modifier is enabled or not

* `fn: applyStyleOnLoad`:

* `@prop {Function}` - Whether the modifier is enabled or not

* `order: 850`

* `enabled: true`

* `fn: computeStyle`:

* `order: 800`

* `enabled: true`

* `fn: hide`:

* `order: 700`

* `enabled: false`

* `fn: inner`:

* `order: 600`

* `enabled: true`

* `fn: flip`:

* `order: 500`

* `enabled: true`

* `fn: applyStyle`:

* `order: 400`

* `enabled: true`

* `fn: computeStyle`:

* `order: 300`

* `enabled: true`

* `fn: applyStyle`:

* `order: 200`

* `enabled: true`

* `fn: computeStyle`:

* `order: 100`

* `enabled: true`

* `fn: applyStyle`:

* `order: 0`

* `enabled: true`
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instance

* @property {String} data.placement Placement applied to popper
* @property {String} data.originalPlacement Placement originally defined on init
* @property {Boolean} data.flipped True if popper has been flipped by flip modifier
* @property {Object} data.hide True if the reference element is out of boundaries, useful to know when to hide the popper
* @property {Object} [HTMLElement] data.arrowElement Node used as arrow by arrow modifier
* @property {Object} data.styles Any CSS property defined here will be applied to the popper. It expects the JavaScript nomenclature (eg. `marginBottom`) on * @property {Object} data.arrowStyles
  * @property {Object} data.boundaries Offsets of the popper boundaries
  * @property {Object} data.offsets The measurements of popper, reference and arrow elements
  * @property {Object} data.offsets.popper
    * `top`, `left`, `width`, `height` values
  * @property {Object} data.offsets.reference
    * `top`, `left`, `width`, `height` values
  * @property {Object} data.offsets.arrow
    * `top` and `left` offsets, only one of them will be different from 0
* @property {Boolean} defaultOptions.popperEnabled True if default options provided to Popper.js constructor. These can be overridden using the `options` argument of Popper.js.

To override an option, simply pass an object with the same * structure of the `options` object, as the 3rd argument. For example:

```javascript
new Popper(ref, pop, {
* @property {String} placement Placement applied to popper
* @property {Object} data.boundaries Offsets of the popper boundaries
* @property {Object} data.offsets The measurements of popper, reference and arrow elements
* @property {Object} data.styles Any CSS property defined here will be applied to the popper. It expects the JavaScript nomenclature (eg. `marginBottom`) on

```javascript
* @property {Object} [HTMLElement] reference - The reference element used to position the popper
* @property {Object} popper - The HTML element used as the popper
* @property {Object} options - Your custom options to override the ones defined in [Defaults](#defaults)
```
// they could add new properties to their options configuration
// BE AWARE: don't add options to `options.modifiers.name` but to `modifierOptions`
// if (modifierOptions.enabled && isFunction(modifierOptions.onLoad))
// fire the first update to position the popper in the right place

var eventsEnabled = this.options.eventsEnabled;
if (eventsEnabled) {
  // setup event listeners, they will take care of update the position
  this.enableEventListeners.call(this);
}

var reference = this.popper;
if (reference.getBoundingClientRect) {
  // fire the first update to position the popper in the right place
  this.update();

  var eventsEnabled = this.options.eventsEnabled;
  if (eventsEnabled) {
    // setup event listeners, they will take care of update the position
    this.enableEventListeners.call(this);
  }
}

// We can't use class properties because they don't get listed in the
// class prototype and break stuff like Sinon stubs

createClass(Popper, [{
  key: 'update',
  value: function update$$1() {
    return update.call(this);
  }
}, {
  key: 'destroy',
  value: function destroy$$1() {
    return destroy.call(this);
  }
}, {
  key: 'enableEventListeners',
  value: function enableEventListeners$$1() {
    return enableEventListeners.call(this);
  }
}, {
  key: 'disableEventListeners',
  value: function disableEventListeners$$1() {
    return disableEventListeners.call(this);
  }

  /**
   * Schedules an update. It will run on the next UI update available.
   * @method scheduleUpdate
   * @memberof Popper
   */

  /**
   * Collection of utilities useful when writing custom modifiers.
   * Starting from version 1.7, this method is available only if you
   * include `popper-utils.js` before `popper.js`.
   * **DEPRECATION**: This way to access PopperUtils is deprecated
   * and will be removed in v2! Use the PopperUtils module directly instead.
   * Due to the high instability of the methods contained in Utils, we can't
   * guarantee them to follow semver. Use them at your own risk!
   * @static
   * @private
   * @type {Object}
   * @deprecated since version 1.8
   * @member Utils
   * @memberof Popper
   */

  sourceMappingURL = popper.js.map", "\"use strict\";\n  var value = require(".is-value");\n  var forEach = Array.prototype.forEach, create = Object.create;

  // eslint-disable-next-line no-unused-vars
  module.exports = function (opts1, \n  ...
  options) {
    var result = create(null);
    for (var i = 0; i < arguments.length; i++) {
      var options = arguments[i];
      if (!isValue(options))
        return;
      process(Object(options), result);
    }
    return result;
  }

  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(undeclared, arguments);
    }
    \n  }

  module.exports = shortOut;

  var isSymbol = require('./isSymbol');

  /**
   * Converts `value` to a string key if it's not a string or
   * symbol.
   * @private
   * @param {*} value
   * @returns {string|symbol}
   */
  function toKey(value) {
    if (typeof value == 'string' || isSymbol(value)) {
      return value;
    }
    var result = (value + '');
    return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
  }

  module.exports =

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toKey;

,"use strict;

var assign = require('es5-ext/object/assign')
  , normalizeOpts = require('es5-ext/object/normalize-options')
  , isCallable = require('es5-ext/object/is-callable')
  , contains = require('es5-ext/string/#/contains')

  , d;

d = module.exports = function (dscr, value/*, options*/) {
	var c, e, w, options,
		desc;
	if ((arguments.length < 2) || (typeof dscr !== 'string')) {
		options = value;
		value = dscr;
		dscr = null;
	} else {
		options = arguments[2];
		if (isCallable(get))
			get = set;
		if (isCallable(set))
			set = get;
		if (isCallable(options))
			options = normalizeOpts(options);
	}

	desc = { value: value, configurable: c, enumerable: e, writable: w }; return !options ? desc :

	assign(normalizeOpts(options), desc);

};

var isArray = require('./isArray'),
    isSymbol = require('./isSymbol');

/**
 * Checks if `value` is a property name and not a property path.
 * @private
 * @param {*} value The value to check.
 * @param {Object} [object] The object to query keys on.
 * @returns {boolean} Returns `true` if `value` is a property name, else `false`.
 */
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;

/*!
 * vue-i18n v8.4.0 
 * (c) 2018 kazuya kawaguchi
 * Released under the MIT License.
 */

/**
 * utilities
 */

function warn (msg, err) {
  if (typeof console !== 'undefined') {
    console.warn('[vue-i18n] ' + msg);
    /* istanbul ignore if */
    if (err) {
      console.warn(err.stack);
    }
}}
else if (isObject(options.i18n)) {
  // component local i18n
  if (this.$root && this.$root.$i18n &&
    this.$root.$i18n.instanceof VueI18n) {
    options.i18n.root = this.$root;
    options.i18n.format = this.$root.$i18n.format;
    options.i18n.root = this.$root;
    options.i18n.root = this.$root.$i18n.root;
    options.i18n.locale = this.$root.$i18n.locale;
    options.i18n.silentTranslationWarn = this.$root.$i18n.silentTranslationWarn;
  } else if (isObject(options._i18n)) {
    try {
      var localeMessages$1 = merge(localeMessages$1,
        JSON.parse(resource));
    } catch (e) {
      warn("Cannot parse locale messages via custom blocks.", e);
    }
  }

  this._i18n = new VueI18n(options.i18n);
  this._i18nWatcher
    = this._i18n.watchLocale();
  this._i18nWatcher();
  this._i18n = null;
}

var component = {
  name: 'i18n',
  functional: true,
  props: {
    tag: {
      type: String,
      default: 'span'
    },
    path: {
      type: String,
      required: true
    },
    locale: {
      type: String
    },
    places: {
      type: [Array, Object]
    }
  },
  render: function render (h, ref) {
    var props = ref.props;
    var data = ref.data;
    var children = ref.children;
    var parent = ref.parent;

    var i18n = parent.$i18n;

    children = (children || []).filter(function (child) {
      return child.tag || (child.text = child.text.trim())
    });

    if (!i18n) {
      warn("Cannot find VueI18n instance!");
      return children
    }

    var path = props.path;
    var locale = props.locale;

    var params = {};
    var places = props.places || {};

    var hasPlaces = Array.isArray(places)
      ? places.length > 0 :
      Object.keys(places).length > 0;

    var everyPlace = children.every(function (child) {
      if (child.data &&
        child.data.attrs) {
        var place = child.data.attrs.place;
        return (typeof place !== 'undefined') && place !== ''
      }
    });

    if (hasPlaces && children.length > 0 &&
      !everyPlace) {
      warn('If places prop is set, all child elements must have place prop set.');
    }

    if (Array.isArray(places)) {
      places.forEach(function (p, i) {
        params[i] = p;
      });
    } else {
      Object.keys(places).forEach(function (key) {
        params[key] = places[key];
      });
    }

    children.forEach(function (child, i) {
      var key = everyPlace
        ? ('' + child.data.attrs.place)
        : ('' + i);
      params[key] = child;
    });

    return h(props.tag, data, i18n.i(path, locale, params))
  }
};

/*  */

function bind (el, binding, vnode) {
  if (!assert(el, vnode)) { return }

  t(el, binding,
    vnode);
}

function update (el, binding, vnode, oldVNode) {
  if (!assert(el, vnode)) { return }

  var i18n =
    vnode.context.$i18n;
  if (localeEqual(el, vnode) &&
    (looseEqual(binding.value, binding.oldValue) &&
      looseEqual(i18n.getLocaleMessage(i18n.locale),
        i18n.getLocaleMessage(oldVNode.locale)))) {
    return
  }

  t(el, binding,
    vnode);
}

function unbind (el, binding, vnode, oldVNode) {
  var vm =
    vnode.context;
  if (!vm) { return }

  warn('Vue instance does not exists in VNode context');
  return
}

/*
*/

Vue.prototype.

ref$1, ref$2; var value = binding.value; var ref = parseValue(value); var path = ref.path; var locale = ref.locale; var args = ref.args; var choice = ref.choice; if (!path && !locale && !args) { warn("value type not supported"); return } if (choice) { var el_vt = el.textContent = (ref$1 = vm.$i18n).tc.apply(ref$1, [ path, choice ].concat(makeParams(locale, args))); } else { var el_vt = el.textContent = (ref$2 = vm.$i18n).t.apply(ref$2, [ path ].concat(makeParams(locale, args))); } var el_local = vm.$i18n.locale; el._localeMessage = vm.$i18n.getLocaleMessage(vm.$i18n.locale); vm.unfunction parseValue(value); var path = value; var locale = value.args; var choice = value.choice; if (!path || !locale || !args) { warn("value type not supported"); return } if (!path) { warn("`path` is required in v-t directive"); return } var vm = vnode.context; if (choice) { el._vt = el.textContent = (ref$1 = vm.$i18n).tc.apply(ref$1, [ path, choice ].concat(makeParams(locale, args))); } else { el._vt = el.textContent = (ref$2 = vm.$i18n).t.apply(ref$2, [ path ].concat(makeParams(locale, args))); } var path = el._locale = vm.$i18n.locale; el._localeMessage = vm.$i18n.getLocaleMessage(vm.$i18n.locale);
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```javascript
(value === undefined) {
    return null
  }
  last = value;
  i++;
}

return last
};

var numberFormatKeys = [
  'style',
  'currency',
  'currencyDisplay',
  'useGrouping',
  'minimumIntegerDigits',
  'minimumFractionDigits',
  'maximumFractionDigits',
  'minimumSignificantDigits',
  'maximumSignificantDigits',
  'localeMatcher',
  'formatterMatcher'
];

var linkKeyMatcher = /(?:@[\w\-_.]+)?(\[\w\-_.]+\]((?:\[\w\-_.]+\]+))*/g;
var linkKeyPrefixMatcher = /(^@\[\w\-_.]+\]([\w\-_.]+))/g;
var bracketsMatcher = /\[()]/g;

var formatters = {
  'upper': function (str) { return str.toLocaleUpperCase(); },
  'lower': function (str) { return str.toLocaleLowerCase(); }
};

var VueI18n = function VueI18n (options) {
  var this$1 = this;
  if (options === void 0 ) options = {};

  // Auto install if it is not done yet and `window` has `Vue`.
  // To allow users to avoid auto-installation in some cases,
  // this code should be placed here. See #290
  /* istanbul ignore if */
  if (!Vue && typeof window !== 'undefined' && window.Vue) {
    install(window.Vue);
  }

  var locale = options.locale || 'en-US';
  var fallbackLocale = options.fallbackLocale || 'en-US';
  var messages = options.messages || {};
  var dateTimeFormats = options.dateTimeFormats || {};
  var numberFormats = options.numberFormats || {};

  this._vm = null;
  this._formatter = options.formatter || new BaseFormatter();
  this._missing = options.missing || null;
  this._root = options.root || null;
  this._sync = options.sync === undefined ? true : !!options.sync;
  this._fallbackRoot = options.fallbackRoot === undefined
    ? true
    : !!options.fallbackRoot;
  this._silentTranslationWarn = options.silentTranslationWarn === undefined ? false
    : !options.silentTranslationWarn;
  this._dateFormatter = null;
  this._numberFormatter = null;

  this._initVM({
    locale: locale,
    fallbackLocale: fallbackLocale,
    messages: messages,
    dateTimeFormats: dateTimeFormats,
    numberFormats: numberFormats
  });
};

VueI18n.prototype._initVM = function _initVM (data) {
  var silent = Vue.config.silent;
  Vue.config.silent = true;
  this._vm = new Vue({ data: data });
  Vue.config.silent = silent;
};

VueI18n.prototype.subscribeDataChanging = function subscribeDataChanging (vm) {
  var self = this;
  return this._vm.$watch('$data', function () {
    var i = self._dataListeners.length;
    while (i--) {
      Vue.nextTick(function () {
        self._dataListeners[i].$forceUpdate();
      });
    }
  }, { deep: true })
};

VueI18n.prototype.watchI18nData = function watchI18nData () {
  var self = this;
  return this._vm.$watch('messages', function () {
    var i = self._dataListeners.length;
    while (i--) {
      Vue.nextTick(function () {
        self._dataListeners[i].$forceUpdate();
      });
    }
  }, { deep: true })
};

Vue.prototype.$i18n = new VueI18n();
```

```javascript
this._vm.numberFormats };

VueI18n.prototype._warnDefault = function _warnDefault (locale, key, result, vm, values) {
  if (isNull(result)) { return result }
  if (this._missing) { return missingApply(null, locale, key, vm, values); }
  if (typeof missingRet === 'string') { return missingRet }

  var pathRet = this._path.getPathValue(message, key);
  if (isNull(pathRet)) { return pathRet }

  var missingRet = this._missing.apply(null, [locale, key, host, interpolateMode, values, visitedLinkStack]);
  if (isNull(missingRet)) { return pathRet }

  var pathRet = this._path.getPathValue(message, key);
  if (isNull(pathRet)) { return pathRet }

  if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
    warn("Cannot translate the value of keypath "+ key + "+" + "+ "Use the value of keypath as default." + ");
  }

  return key
};

VueI18n.prototype._isFallbackRoot = function _isFallbackRoot (val) {
  return !val && !isNull(this._root) && this._fallbackRoot
};

VueI18n.prototype._interpolate = function _interpolate (
  locale, message, key, host, interpolateMode, values, visitedLinkStack
) {
  if (!message) { return null }

  var pathRet = this._path.getPathValue(message, key);
  if (Array.isArray(pathRet) || isPlainObject(pathRet)) {
    return pathRet
  }

  if (isNull(pathRet)) { return pathRet }

  var ret;
  if (isNull(pathRet)) {
    /* istanbul ignore else */
    if (isPlainObject(message)) {
      ret = message[key];
      if (typeof ret !== 'string') {
        if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
          warn("Value of key "+ key + "+" + !== a string!" +
        }
        return null
      }
    } else {
      return null
    }
  } else {
    /* istanbul ignore else */
    if (typeof pathRet === 'string') {
      ret = pathRet;
    } else {
      if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
        warn("Value of key "+ key + "+" + is not a string!" +
      }
      return null
    }
  }

  // Check for the existence of links within the translated string
  if (ret.indexOf('@:') >= 0 || ret.indexOf('@.') >= 0) {
    ret = this._link(locale, message, ret, host, interpolateMode, values, visitedLinkStack);
  }

  return this._render(ret, interpolateMode, values)
};

VueI18n.prototype._link = function _link (locale, message, str, host, interpolateMode, values, visitedLinkStack) {
  var this$1 = this;

  var ret = str;

  // Match all the links within the locale
  // We are going to replace each one with its translation
  // foreach in matches
  // if interpolateMode !== string (row),
  // filter the array by
  // prototype method
  if (!matches.hasOwnProperty(idx)) {
    continue
  }

  var link = matches[idx];
  var linkPrefixMatches = link.match(linkPrefixMatcher);
  var linkPrefix = linkPrefixMatches[0];
  if (linkPrefix) {
    var formatterName = linkPrefixMatches[1];
    // Remove the leading @:, @.case: and the brackets
    var linkPlaceholder = link.replace(linkPrefix, '').replace(bracketsMatcher, '');

    if (visitedLinkStack.includes(linkPlaceholder)) {
      if (process.env.NODE_ENV !== 'production') {
        warn("Circular reference found. "+ link + "+" + is already visited in the chain of "+
      }
      return ret
    }
    visitedLinkStack.push(linkPlaceholder);

    // Translate the link
    var translated = this$1._interpolate(locale, message, linkPlaceholder, host, interpolateMode, values, visitedLinkStack);
    if (translated) {
      // We are going to replace each one with its translation
      // foreach in matches
      // if interpolateMode !== string (row),
      // filter the array by
      // prototype method
      if (this$1._isFallbackRoot(translated)) {
        if (process.env.NODE_ENV !== 'production' &&
          !this$1._silentTranslationWarn) {
          warn("Fall back to translate the first placeholder "+ key + "+" + with root locale.");
        }
      } else {
        if (process.env.NODE_ENV !== 'production') {
          throw Error('unexpected error')
        }
      }
    }
  }

  visitedLinkStack.pop();

  // Replace the link
  var ret = !translated ? ret : translated;

  var link = message[key];
  if (typeof link !== 'string') {
    if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
      warn("Cannot translate the value of keypath "+ key + "+" + with "+ fallback + "+" + locale.");
    }
    return ret
  }

  visitedLinkStack.push(link);

  var translated = this$1._interpolate(locale, message, linkPlaceholder, host, interpolateMode, values, visitedLinkStack);
  if (translated) {
    // We are going to replace each one with its translation
    // foreach in matches
    // if interpolateMode !== string (row),
    // filter the array by
    // prototype method
  }

  var link = message[key];
  if (isNull(link)) {
    return key
  }

  var translated = this$1._interpolate(locale, message, linkPlaceholder, host, interpolateMode, values, visitedLinkStack);
  if (translated) {
    // We are going to replace each one with its translation
    // foreach in matches
    // if interpolateMode !== string (row),
    // filter the array by
    // prototype method
  }
```
else {
    return null
  }
}

VueI18n.prototype._t = function _t (key, locale, messages, host) {
  var ref;

  var parsedArgs = parseArgs.apply(void 0, values);
  var locale = parsedArgs.locale || locale;

  var ret = this._translate(messages, locale, this.fallbackLocale, key, host, 'string', parsedArgs.params);

  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production' & & this._silentTranslationWarn) {
      warn(("Fall back to translate the keypath " + key + " with root locale."));
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return (ref = this._root).$t.apply(ref, [ key, locale, this._getMessages(), host, values ])
  } else {
    return this._warnDefault(locale, key, ret, values)
  }

  return ret;
}

VueI18n.prototype.t = function t (key) {
  var ref;

  var values = [], len = arguments.length - 1;
  while ( len-- > 0 ) values[len] = arguments[len + 1];

  return (ref = this)._t.apply(ref, [ key, locale, this.locale, this._getMessages(), null ].concat(values))
}

VueI18n.prototype._i = function _i (key, locale, messages, host, values) {
  var ret = this._translate(messages, locale, this.fallbackLocale, key, host, 'raw', values);

  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production' & & this._silentTranslationWarn) {
      warn(("Fall back to interpolate the keypath " + key + " with root locale."));
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return this._root.$i18n.i(key, locale, values)
  } else {
    return this._warnDefault(locale, key, ret, values)
  }

  return ret;
}

VueI18n.prototype.i = function i (key, locale, values) {
  if (typeof locale !== 'string') {
    locale = this.locale;
  }

  return this._i(key, locale, this._getMessages(), null, values)
}

VueI18n.prototype._tc = function _tc (
  key,
  locale,
  messages,
  host,
  choice
) {
  var ref;

  var values = [], len = arguments.length - 5;
  while ( len-- > 0 ) values[len] = arguments[len + 5];

  if (!key) { return '' }

  if (choice === undefined) {
    choice = 1;
  }

  var predefined = { 'count': choice, 'n': choice };
  var parsedArgs = parseArgs.apply(void 0, values);
  parsedArgs.params = Object.assign(predefined, parsedArgs.params);

  return this.fetchChoice((ref = this)._t.apply(ref, [ key, locale, this.locale, this._getMessages(), null, choice ]).concat(values)), choice)

  return ret;
}

VueI18n.prototype.fetchChoice = function fetchChoice (message, choice) {
  /* istanbul ignore if */
  if (!message && typeof message !== 'string') { return null }
  var choices = message.split('|');

  choice = this.getChoiceIndex(choice, choices.length);
  if (!choices[choice]) { return message }
  return choices[choice].trim()
}

VueI18n.prototype.getChoiceIndex = function getChoiceIndex (choice, choicesLength) {
  choice = Math.abs(choice);

  if (choicesLength === 2) {
    return choice
      ? choice > 1
        ? 1
        : 0
      : 1
  }

  return choice ? Math.min(choice, 2) : 0
};

VueI18n.prototype._localizeDateTime = function _localizeDateTime (value, locale, messages) {
  return this._exist(messages[locale], value)
};

VueI18n.prototype._exist = function _exist (messages, value) {
  var ref;

  var values = [], len = arguments.length - 1;
  while ( len-- > 0 ) values[len] = arguments[len + 1];

  var _locale = parseArgs.apply(void 0, values).locale || locale;

  return this._exist(messages[_locale], value)
};

VueI18n.prototype.getDateTimeFormat = function getDateTimeFormat (locale) {
  return this._exist(this._vm.dateTimeFormats, locale)
};

VueI18n.prototype.setDateTimeFormat = function setDateTimeFormat (locale, format) {
  this._vm.$set(this._vm.dateTimeFormats, locale, format)
};

VueI18n.prototype.mergeDateTimeFormat = function mergeDateTimeFormat (locale, format) {
  if (this._exist(this._vm.dateTimeFormats, locale)) {
    this._vm.$set(this._vm.dateTimeFormats, locale, format)
  } else {
    this._vm.dateTimeFormats[locale] = format
  }
};

VueI18n.prototype._localizeDateTime = function _localizeDateTime (value, locale, messages) {
  return this._exist(messages, value)
};

VueI18n.prototype._translate = function _translate (messages, locale, fallbackLocale, key, host, type, parsedArgs) {
  var ref;

  var ret = this._fetchKeyTranslation(messages, locale, fallbackLocale, key, host, type, parsedArgs.params);

  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production' & & this._silentTranslationWarn) {
      warn(("Fall back to translate the keypath " + key + " with root locale."));
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return (ref = this._root).$t.apply(ref, [ key, locale, this.locale, this._getMessages(), host, values ])
  } else {
    return this._warnDefault(locale, key, ret, host, values)
  }

  return ret;
}

VueI18n.prototype._fetchKeyTranslation = function _fetchKeyTranslation (messages, locale, fallbackLocale, key, host, type, parsedArgs) {
  var ref;

  var values = [], len = arguments.length - 4;
  while ( len-- > 0 ) values[len] = arguments[len + 4];

  if (!key) {
    return null
  }

  var ref2;

  var ret = this._translate(messages, locale, fallbackLocale, key, host, 'string', parsedArgs.params);

  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production' & & this._silentTranslationWarn) {
      warn(("Fall back to translate the keypath " + key + " with root locale."));
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return (ref2 = this._root).$t.apply(ref2, [ key, locale, this.locale, this._getMessages(), host, values ])
  } else {
    return this._warnDefault(locale, key, ret, host, values)
  }

  return ret;
}

VueI18n.prototype._warnDefault = function _warnDefault (locale, key, value, host, values) {
  var ref;

  var values = [], len = arguments.length - 4;
  while ( len-- > 0 ) values[len] = arguments[len + 4];

  if (!key) {
    return ''
  }

  var parsedArgs = parseArgs.apply(void 0, values);
  var key = parsedArgs.key, host, values = parsedArgs.values;

  var ref3;

  var ret = this._translate(messages, locale, fallbackLocale, key, host, 'string', parsedArgs.params);

  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production' & & this._silentTranslationWarn) {
      warn(("Fall back to translate the keypath " + key + " with root locale."));
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return (ref3 = this._root).$t.apply(ref3, [ key, locale, this.locale, this._getMessages(), host, values ])
  } else {
    return this._warnDefault(locale, key, ret, host, values)
  }

  return ret;
}
Object.keys(args[0]).reduce(function (acc, key) {
        var obj; 

        if (numberFormatKeys.includes(key)) {
          key = args[0].key;
        }

        // Filter out number format options only
        options = isObject(args[0]) ? args[0].locale : options;
      } else if (isObject(args[0])) {
        if (args[0].locale) {
          locale = args[0].locale;
        }
        if (args[0].key) {
          key = args[0].key;
        }
      }
  }
}

VueI18n.prototype.n = function n (value) {
    var args = [], len = arguments.length - 1;
    while ( len-- > 0 ) args[len] = arguments[len + 1];

    var locale = this.locale;
    var key = null;

    if (args.length === 1) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    } else if (args.length === 2) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    }
}

VueI18n.prototype._n = function _n (value, locale, key, options) {
  /* istanbul ignore if */
  if (this.isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fallback back to number localization of root: key " + key + " + " + value.format + ");
    }
    return this._root.$i18n.n(value, Object.assign({}, { key: key, locale: locale }, options));
  } else {
    return ret || ''
  }
};

VueI18n.prototype._d = function _d (value) {
    var args = [], len = arguments.length - 1;
    while ( len-- > 0 ) args[len] = arguments[len + 1];

    var locale = this.locale;
    var key = null;

    if (args.length === 1) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    } else if (args.length === 2) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    }
}

VueI18n.prototype.d = function d (value) {
    var args = [], len = arguments.length - 1;
    while ( len-- > 0 ) args[len] = arguments[len + 1];

    var locale = this.locale;
    var key = null;

    if (args.length === 1) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    } else if (args.length === 2) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
    }
}
IMPORTANT: Do NOT use ES2015 features in this file (except for modules).
// This module is a runtime utility for cleaner component module output and will be included in the final webpack user bundle.

export default function normalizeComponent(scriptExports, render, staticRenderFns, functionalTemplate, injectStyles, scopeId, moduleIdentifier, shadowMode) {
  // Vue.extend constructor export interop
  var options = typeof scriptExports === 'function' ? scriptExports.options : scriptExports

  // render functions
  if (render) {
    options.render = render
    options.staticRenderFns = staticRenderFns
    options._compiled = true
  }

  // functional template
  if (functionalTemplate)
    options.functional = true

  // scopedId
  if (scopeId)
    options._scopeId = 'data-v-' + scopeId

  var hook
  if (moduleIdentifier) // server build
    hook = function (context) {
      // 2.3 injection
      context =
        context || // cached call
        (this.$vnode && this.$vnode.ssrContext) || // stateful
        (this.parent && this.parent.$vnode && this.parent.$vnode.ssrContext) // functional
      // 2.2 with runInNewContext: true
      if (!context && typeof __VUE_SSR_CONTEXT__ !== 'undefined') {
        context = __VUE_SSR_CONTEXT__
      }
      // inject component styles
      if (injectStyles) {
        injectStyles.call(this, context)
      }
      // register component module identifier for async chunk inference
      if (context && context._registeredComponents) {
        context._registeredComponents.add(moduleIdentifier)
      }
    }
    // used by ssr in case component is cached and beforeCreate never gets called
    options._ssrRegister = hook
  else if (injectStyles)
    hook = shadowMode
      ? function () { injectStyles.call(this, this.$root.$options.shadowRoot) }
      : injectStyles
  if (hook)
    if (options.functional)
      // for template-only hot-reload because in that case the render fn doesn't go through the normalizeComponent
      options._injectStyles = hook
    else if (injectStyles)
      options._injectStyles = hook
    else if (function () {
      injectStyles.call(this, this.$root.Options.shadowRoot)
    })
    // register component module identifier for async chunk inference
    if (context && context._registeredComponents)
      context._registeredComponents.add(moduleIdentifier)
  }

  return {
    exports: scriptExports,
    options: options
  }
}


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```
self._deferreds.length === 0) {
  if (!self._handled) {
    Promise._immediateFn(function() {
      if (!self._handled) {
        Promise._unhandledRejectionFn(self._value);
      }
    });
  }
  for (var i = 0, len = self._deferreds.length; i < len; i++) {
    handle(self, self._deferreds[i]);
  }
  self._deferreds = null;
}

/**
 * @constructor
 */
function Handler(onFulfilled, onRejected, promise) {
  this.onFulfilled = typeof onFulfilled === 'function' ? onFulfilled : null;
  this.onRejected = typeof onRejected === 'function' ? onRejected : null;
  this.promise = promise;
}

/**
 * Take a potentially misbehaving resolver function and make sure it
 * only gets called once. Make no guarantees about asynchrony.
 */
function doResolve(fn, self) {
  var done = false;
  try {
    fn(function(value) {
      if (done) return;
      done = true;
      resolve(self, value);
    },
    function(reason) {
      if (done) return;
      done = true;
      reject(self, reason);
    })
  } catch (ex) {
    if (done) return;
    done = true;
    reject(self, ex);
  }
}

Promise.prototype['catch'] = function(onRejected) {
  return this.then(null, onRejected);
};

Promise.prototype.then = function(onFulfilled, onRejected) {
  // @ts-ignore
  var prom = new this.constructor.noop();
  handle(this, new Handler(onFulfilled, onRejected, prom));
  return prom;
};

Promise.prototype['finally'] = function(f) {
  return this.then(f, f);
};

Promise.all = function(arr) {
  return new Promise(function(resolve, reject) {
    if (!arr || typeof arr.length === 'undefined')
      throw new TypeError('Promise.all accepts an array');
    var args = Array.prototype.slice.call(arr);
    if (args.length === 0)
      return resolve([]);
    var remaining = args.length;
    function res(i, val) {
      try {
        if (val && (typeof val === 'object' || typeof val === 'function')) {
          var then = val.then;
          if (typeof then === 'function') {
            then.call(val, function(val) {
              res(i, val);
            }, reject);
            return;
          }
        }
        args[i] = val;
        if (--remaining === 0) {
          resolve(args);
        }
      } catch (ex) {
        reject(ex);
      }
    }
    for (var i = 0; i < args.length; i++) {
      res(i, args[i]);
    }
  });
};

Promise.resolve = function(value) {
  if (value && typeof value === 'object' && value.constructor === Promise) {
    return value;
  }
  return new Promise(function(resolve) {
    resolve(value);
  });
};

Promise.reject = function(value) {
  return new Promise(function(resolve, reject) {
    reject(value);
  });
};

Promise.race = function(values) {
  return new Promise(function(resolve, reject) {
    for (var i = 0, len = values.length; i < len; i++) {
      values[i].then(resolve, reject);
    }
  });
};

// Use polyfill for setImmediate for performance gains
Promise._immediateFn =
  (typeof setImmediate === 'function' &&
    function(fn) {
      setImmediate(fn);
    }) ||
  function(fn) {
    setTimeout(fn, 0);
  };

Promise._unhandledRejectionFn = function _unhandledRejectionFn(err) {
  if (typeof console !== 'undefined' && console)
    console.warn('Possible Unhandled Promise Rejection:', err); // eslint-disable-line no-console
};

export default Promise;

import memoize from 'lodash/memoize'
import flatten from 'lodash/flatten'
import Promise from 'promise-polyfill';

export const injectAsset = memoize(function(file) {
  return new Promise(resolve => {
    const parent = document.querySelector("body") ||
    document.querySelector("head");
    const parts = file.split(".");
    const ext = parts[parts.length - 1].toLowerCase();
    switch(ext) {
      case "js":
        var script = document.createElement('script');
        script.setAttribute("type", "text/javascript");
        script.onload = resolve
        parent.appendChild(script);
        script.setAttribute("src", file);
        break;
      case "css":
        var css = document.createElement('link');
        css.setAttribute("rel", "stylesheet");
        css.setAttribute("type", "text/css");
        css.onload = resolve
        parent.appendChild(css);
        break;
    }
  })
});

export const injectAssets = function() {
  const files = flatten(arguments)
  return new Promise(resolve => {
    var filesLoaded = 0;
    var allFilesLoaded = function() {
      if (++filesLoaded === files.length) {
        resolve();
        return;
      }
    }
    for(var i=0; i < files.length ; i++) {
      injectAsset(files[i]).then(allFilesLoaded)
    }
  })
};

import every from 'lodash/every'
import { injectAssets } from './assets'
// Will hold the pym instance once
var pymChild = null;
// URL parameters generated by Pym
const pymParams = ['initialWidth', 'childId', 'parentUrl', 'parentTitle']

export default class IframeResizer {
  constructor () {
    this.initializer = injectAssets('//pym.nprapps.org/pym.v1.min.js').then(() => {
      pymChild = pymChild || new window.pym.Child({ polling: 300 })
      return pymChild
    })
    return this.initializer
  }
  sendHeight () {
    this.initializer.then(pymChild => pymChild.sendHeight())
  }
  static create () {
    return new IframeResizer()
  }
}
Open Source Used in SMI 2021.01.0-Apr-2022  7038

Object.assign = function (target, varArgs) { // length of function is 2
  if (target == null) { // TypeError if undefined or null
    throw new TypeError("Cannot convert undefined or null to object");
  } var to = Object(target);
  for (var index = 0; index < arguments.length; index++) {
    var nextSource = arguments[index];
    if (nextSource != null) { // Skip over if undefined or null
      var nextSource = Object.getOwnPropertyNames(nextSource); // Avoid bugs when HasOwnProperty is shadowed
      if (Object.prototype.hasOwnProperty.call(nextSource, nextKey)) { // nextKey = nextSource[nextKey];
        var returnTo = to[nextKey] = Object.getOwnPropertyDescriptor(nextSource, nextKey);
        return
      } return to[nextKey] = void 0;
    }
  }
}

native

Object.defineProperty(Array.prototype, 'find', {
  value: function (item) {
    // 1. Let O be ?
    var o = Object(this);
    // 2. Let len be ? ToLength(? Get(O, "length")).
    var len = o.length >>> 0;
    // 3. ReturnIfAbrupt(items).
    if (arrayLike == null) {
      throw new TypeError('Array.from requires an array-like object - not null or undefined');
    }
    // 4. If mapfn is undefined, then let mapping be false.
    var mapFn = arguments.length > 1 ? arguments[1] : void undefined;
    var T = void 0;
    // 5. else
    if (typeof mapFn !== 'undefined') {
      // 5. a If IsCallable(mapfn) is false, throw a TypeError exception.
      if (!isCallable(mapFn)) {
        throw new TypeError('Array.from: when provided, the second argument must be a function');
      }
      // 5. b. If thisArg was supplied, let T be thisArg; else let T be undefined.
      if (typeof T === 'undefined') {
        T = arguments[2];
      }

      // 6. If thisArg was defined, then mapping is false.
      if (isCallable(T)) {
        // 6. a. Else, Let A be ArrayCreate(len).
        var A = isConstructor(C) is true, then
        if (arguments.length > 2) { // steps a-h)
          var T = arguments[2];
        }
      }
    }

    // 10. Let lenValue be Get(items, "length").
    var len = toLength(items.length);
    // 11. Let len be ToLength(lenValue).
    var len = toLength(len); // 10. Let lenValue be Get(Items, "length").
    // 12. Let len be ToLength(lenValue).
    var len = toLength(len); // 10. Let lenValue be Get(Items, "length").
    // 13. If Constructor(C) is true, then
    // 13. a. Let A be the result of calling the [[Construct]] internal method
    // of C with an argument list containing the single item len.

    // 14. else, Let A be ArrayCreate(len).
    var A = isCallable(C) ? Object(new C(len)) : new Array(len);
    // 16. Let k be 0.
    var k = 0;
    // 17. Repeat.
    while k < len… (also steps a - h)
    Object.defineProperty(A, "length", {
      enumerable: true, configurable: false, writable: false
    });
    // 19. Let A be the result of calling the [[Construct]] internal method
    // of C.
    A.length = len;
    // 20. Return A.
    return A;
  }
};

export { assign };

export function readonlyDescriptor() {
  return { enumerable: true, configurable: false, writable: false
    }
};

// Production steps of ECMA-262, Edition 6, 22.1.2.1
// es6-ified by @alexsasharegan
if (!Array.from) {
  Array.from = function () {
    var to = ToObject(this.value);
    var len = toLength(value);
    if (len !== 0) {
      return new Array(len);
    }

    var to = ToObject(this.value);
    var len = toLength(value);
    if (len !== 0) {
      return new Array(len);
    }
  };
}

// https://tc39.github.io/ecma262/#sec-array.prototype.find
Object.is

export function isCallable(fn) {
  return typeof fn === 'function' || toStr.call(fn) === '[object Function]';
}

export var toInteger = function (value) {
  var number = Number(value);
  if (isNaN(number)) {
    return 0;
  }
  if (number === 0 || !isFinite(number)) {
    return number;
  }
  return (number > 0 ? 1 : -1) * Math.floor(Math.abs(number));
}

export var maxSafeInteger = Math.pow(2, 53) - 1;

export { toLength, Math, Number, Object

export var Math = Object;
while k < len
      while (k < len) {
        // a. Let Pk be ! ToString(k).
        // b. Let kValue be ? Get(O, Pk).
        var kValue = o[k];
        if (predicate.call(thisArg, kValue, k, o)) {
          return kValue;
        }

        // c. Increase k by 1.
        k++;
      }

      // 7. Return undefined.
      return undefined;
    }
  });
}

if (!Array.isArray) {
  Array.isArray = function (arg) {
    return Object.prototype.toString.call(arg) === '[object Array]';
  };
}

// Static
export var from = Array.from;
export var isArray = Array.isArray;

// Instance
export var arrayIncludes = function arrayIncludes(array, value) {
  return !!array.filter(function (item) {
    return item === value;
  }).length;
}
export var arrayFind = function arrayFind(array, fn, thisArg) {
  return array.find(fn, thisArg);
};
export function concat() {
  return Array.prototype.concat.apply([], arguments);
}

export default function identity(x) {
  return x;
}

import { keys } from './object';
import { isArray } from './array';
import identity from './identity';

/**
 * Given an array of properties or an object of property keys, * plucks all the values off the
target object.
 * @param {{}|string[]} keysToPluck
 * @param {{}} objToPluck
 * @param {Function}
 * @return {{}}
 */
export default function pluckProps(keysToPluck, objToPluck) {

  return (isArray(keysToPluck) ? keysToPluck.slice() : keys(keysToPluck)).reduce(function (memo, prop) {
    // eslint-disable-next-line no-sequences
    return memo[transformFn(prop)] = objToPluck[prop], memo;
  }, {});
}

import { from as arrayFrom } from './array';

// Determine if an element is an HTML Element
export var isElement = function isElement(el) {
  return el && el.nodeType === Node.ELEMENT_NODE;
};

// Determine if an HTML element is visible - Faster than CSS check
export var isVisible = function isVisible(el) {
  return isElement(el) && document.body.contains(el) && el.getBoundingClientRect().height > 0 && el.getBoundingClientRect().width > 0;
};

// Determine if an element is disabled
export var isDisabled = function isDisabled(el) {
  return !isElement(el) || el.disabled || el.classList.contains('disabled') || Boolean(el.getAttribute('disabled'));
};

// Cause/wait-for an element to reflow it's content (adjusting it's height/width)
export var reflow = function reflow(el) {
  // requesting an elements offsetHeight will trigger a reflow
  return isElement(el) && el.offsetHeight;
};

// Select all elements matching selector.
Returns [] if none found
export var selectAll = function selectAll(selector, root) {
  if (!isElement(root)) {
    root = document;
  }
  return arrayFrom(root.querySelectorAll(selector));
};

// Select a single element, returns null
export var select = function select(selector, root) {
  if (!isElement(root)) {
    root = document;
  }
  return root.querySelector(selector) || null;
};

// Determine if an element matches a selector
export var matches = function matches(el, selector) {
  if (!isElement(el)) {
    return false;
  }

  // Prefer native implementations
  if (el.matches) {
    return el.matches(selector);
  }

  // Populate a prototype
  var prototype = Object.getPrototypeOf(el);
  var matchesSelector = function matchesSelector(selector) {
    return prototype.matchesSelector.call(this, selector);
  }

  // Populate the prototype
  prototype.matchesSelector = matchesSelector;

  // Update the prototype
  el = Object.setPrototypeOf(el, prototype);

  return el.matches(selector);
};

// Finds closest element matching selector. Returns null if not found
export var closest = function closest(selector, root) {
  if (!isElement(root)) {
    return null;
  }

  // Since we dont support IE < 10, we can use the "Matches" version of the
polyfill for speed
  return closest.call(root, selector);

  // Use our "patched" version of the polyfill
  if (isElement(root)) {
    return closest.call(root, selector);
  }

  return closest.call(document, selector);
};

// Get an element given an ID
export var getById = function getById(id) {
  return document.getElementById(/^#/.test(id) ? id.slice(1) : id) || null;
}

// Add a class to an element
export var addClass = function addClass(el, className) {
el.classList.add(className);
}

// Remove an attribute from an element
export var removeAttr = function removeAttr(el, attr) {
  if (attr && isElement(el)) {
    el.removeAttribute(attr);
  }
};

// Get an attribute value from an element (returns null if not found)
export var getAttr = function getAttr(el, attr) {
  if (attr && isElement(el)) {
    return el.getAttribute(attr);
  }
  return null;
};

// Return the Bounding Client Rect of an element. Retruns null
if (el && isElement(el)) {
  var bcr = getBRC(el);
  var win = el.ownerDocument.defaultView;
  return {
    top: bcr.top + win.pageYOffset,
    left: bcr.left + win.pageXOffset
  };
}

// Attach an event listener to an element
export var eventOn = function eventOn(el, evtName, handler) {
  if (el && el.addEventListener) {
    el.addEventListener(evtName, handler);
  }
};

// Remove an event listener from an element
export var eventOff = function eventOff(el, evtName, handler) {
  if (el && el.removeEventListener) {
    el.removeEventListener(evtName, handler);
  }
};

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;
};

import { assign, keys } from '../../utils/object';
import { arrayIncludes, concat } from '../../utils/array';
import { mergeData } from 'vue-functional-data-merge';

/**
 * The Link component is used in many other BV components.
 * As such, sharing its props makes supporting all its features easier.
 * However, some components need to modify the defaults for
 * their own purpose. * * * Prefer sharing a fresh copy of the props to ensure mutations do not affect other
 * component references to the props.
 * * * https://github.com/vuejs/vue-router/blob/dev/src/components/link.js
 * * *
 * @return {{}}
 */
export function propsFactory() {
  return {
    href: {
      type: String,
      default: null
    },
    rel: {
      type: String,
      default: null
    },
    target: {
      type: String,
      default: '_self'
    },
    active: {
      type: Boolean,
      default: false
    },
    activeClass: {
      type: String,
      default: 'active'
    },
    append: {
      type: Boolean,
      default: false
    },
    disabled: {
      type: Boolean,
      default: false
    },
    event: {
      type: [String, Array],
      default: 'click'
    },
    exact: {
      type: Boolean,
      default: false
    },
    exactActiveClass: {
      type: String,
      default: 'active'
    },
    replace: {
      type: Boolean,
      default: false
    },
    routerTag: {
      type: String,
      default: 'a'
    },
    to: {
      type: [String, Object],
      default: null
    }
  };
}

export var props = propsFactory();

export function
Orphans a callback because the node is gone, but the root does not clear the callback. This individual components, when a component registers a listener on the root and is destroyed, this

Safely register event listeners on the root Vue node. While Vue automatically removes listeners for

```
var BVRL = '__BV_root_listeners__';

export default {
  methods: {
    /**
         *
         * Issue #569: collapse::toggle::state triggered too many times
 * @link https://github.com/bootstrap-vue/bootstrap-

[91x176]arr2[i] = arr[i]; } return arr2; } else { return Array.from(arr); } }

import { isArray } from '../utils/array';
/**
 *
_ toConsumableArray(arr) { if (Array.isArray(arr)) { for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) {

```
* to something that needs no reactivity.
* It should be highly unlikely there are any naming collisions.

@chainable

/**
 * Convenience method for calling vm.Semit on vm.$root.
 * @param {string} event
 * @param {function} callback
 * @chainable
 */
listenOnRoot:

function listenOnRoot(event, callback){
  if (!this[BVRL] || !isArray(this[BVRL])) {
    this[BVRL] = [];
  }
  this[BVRL].push({ event: event, callback: callback });
  this.$root.$on(event, callback);
  return this;
},

/**
 * Convenience method for calling vm.$emit on vm.$root.
 * @param {string} event
 * @param {*} args
 * @chainable
 */
emitOnRoot: function emitOnRoot(event){

  var _$root;

  for (var _len = arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; _key++) {
    args[_key - 1] = arguments[_key];
  }

  (_$root = this.$root).$emit.apply(_$root, [event].concat(_toConsumableArray(args)));
  return this;
},

beforeDestroy:

function beforeDestroy() {
  if (this[BVRL] && isArray(this[BVRL])) {
    while (this[BVRL].length > 0) {
      // shift to process in order
      var _BVRL$shift = this[BVRL].shift(),
          event = _BVRL$shift.event,
          callback = _BVRL$shift.callback;

      this.$root.$off(event, callback);
    }
  }
}
};

import { assign } from './object';
import { isElement } from '../utils/dom';

/**
 * Observe a DOM element changes, falls back to
 * eventListener mode
 * @param {Element} el The DOM element to observe
 * @param {Function} callback
 * callback to be called on change
 * @param {object} [opts={childList: true, subtree: true}] observe options
 * @see http://stackoverflow.com/questions/3219758
 */
export default function observeDOM(el, callback, opts) {

  var MutationObserver = window.MutationObserver || window.WebKitMutationObserver || window.MozMutationObserver;
  var eventListenerSupported = window.addEventListener;

  // Handle case
  where we might be passed a vue instance
  el = el ? el.$el || el : null;

  /* istanbul ignore next: dificult to test in JSDOM */
  if (!isElement(el)) {
    // We can't observe something that isn't an element
    return null;
  }

  var obs = null;

  /* istanbul ignore next: dificult to test in JSDOM */
  if (MutationObserver) {
    // Define a new
    observer
    obs = new MutationObserver(function (mutations) {
      var changed = false;
      // A Mutation can contain several change records, so we loop through them to see what has changed.
      // We break out of the loop early if any 'significant' change has been detected
      // for (i = 0; i < mutations.length && !changed; i++) {
      for (var i = 0; i < mutations.length; i++) {

        // The muttion record
        var mutation = mutations[i];
        // Mutation Type
        var type = mutation.type;
        // DOM Node (could be any DOM Node type - HTMLElement, Text, comment, etc)
        var target = mutation.target;
        if (type === 'characterData' && target.nodeType === Node.TEXT_NODE) {
          changed = true;
        } else if (type === 'attributes') {
          changed = true;
        } else if (type === 'childList' &&
          (mutation.addedNodes.length > 0 || mutation.removedNodes.length > 0))
          changed = true;
        }
      }
      if (changed) {
        // We only call the callback if a change that could affect layout/size truely happened.
        callback();
      }
    });

    // Have the observer observe foo for changes in children, etc
    obs.observe(el, assign({ childList: true, subtree: true }, opts));
  } else if (eventListenerSupported) {
    // Legacy interface. most likely not used in modern browsers
    el.addEventListener('DOMNodeInserted', callback, false);
    el.addEventListener('DOMNodeRemoved', callback, false);
  } else {
    // We return a reference to the observer so that
    obs.disconnect = function(){
      // To reduce overhead when the root element is hidden
      return obs;
    };
  }

  return obs;
}

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, prop, descriptor);
    }
  }

  function _classCallCheck(instance, Constructor) {
    if (!(instance instanceof Constructor))
      throw new TypeError("Cannot call a class as a function");
  }

  var _possibleConstructorReturn = function (self, callee) {
    if (!self)
      throw new ReferenceError("this cannot be called directly");
    return callee.call(this);
  }

  var _inherits = function (subClass, superClass) {
    
    if (superClass && superClass.__proto__ && superClass.__proto__ !== Object.prototype)
      subClass.__proto__ = superClass.__proto__;

    function _super() {
      return superClass.apply(this, arguments);
    }

    subClass.prototype = Object.create(superClass.prototype, {
      constructor: {
        value: subClass,
        enumerable: true,
        writable: true,
        configurable: true
      }
    });

    _possibleConstructorReturn(this, _super.apply(this, arguments));
  }

  function _get(target, property, receiver) {
    if (typeof Reflect !== "undefined" && Reflect.get)
      return Reflect.get(target, property, receiver);

    if (typeof target === "undefined" || target === null)
      throw new TypeError("Get method cannot be called on null or undefined");

    var desc = Object.getOwnPropertyDescriptor(target, property);
    if (desc === undefined)
      throw new TypeError("Get method cannot be called on a non-object");

    if (desc.get)
      return desc.get.call(receiver);

    return desc.value;
  }

  _createClass(/Button),

  Button.prototype = Object.create( /*#__PURE__*/Object.getPrototypeOf(Button), {
    constructor: {
      value: Button,
      enumerable: true,
      writable: true,
      configurable: true
    }
  });

  function _defineProperty(target, property, descriptor) {
    if (typeof Reflect !== "undefined" && Reflect.defineProperty)
      return Reflect.defineProperty(target, property, descriptor);

    if (target === null || target === undefined)
      throw new TypeError("Define property cannot be called on null or undefined");

    Object.defineProperty(target, property, descriptor);
  }

  function _interopRequireDefault(obj) {
    return obj && obj.__esModule ? obj : { default: obj }
  }

  function _createSuper(Derived) {
    var hasNativeReflectConstruct = false;
    if (typeof Reflect === "undefined" ||
      !Reflect.construct ||
      !Reflect.construct.bind)
      return function () {
        var Super = Object.getPrototypeOf(Derived);

        var result = new(Super !== null ? Super : Object.prototype).apply(this, arguments);

        return _possibleConstructorReturn(this, result);
      }

    else if (hasNativeReflectConstruct)
      return function () {
        var result = Reflect.construct(Derived, arguments, this);

        return _possibleConstructorReturn(this, result);
      }

    else
      throw new TypeError("Cannot construct a arity 1 object

        function without construct");
  }

  function _assertThisInitialized(self) {
    if (self == null)
      throw new ReferenceError("this cannot be called directly");
  }

  function _isNativeReflectConstruct(target) {
    if (typeof Reflect === "undefined" ||
      !Reflect.construct ||
      !Reflect.construct.bind)
      return false;

    if (typeof target === "undefined" || target === null)
      return false;

    var desc = Object.getOwnPropertyDescriptor(target, "constructor");
    if (desc === undefined)
      return false;

    if (desc.get)
      return desc.get.call(target) === Reflect;

    return desc.value === Reflect;
  }

  var _getPrototypeOf = Object.setPrototypeOf;

  function _setPrototypeOf(o, p) {
    _setPrototypeOf = Object.setPrototypeOf ||
      function _setPrototypeOf(o, p) {
        if (p != null && typeof p === "object")
          return _assign(o, p);

        throw new TypeError("Cannot set property of null or " +
          typeof p + " " + typeof o);
      }

    _setPrototypeOf(o, p);
  }

  _createClass(UIObject);

  UIObject.prototype = Object.create(UIObjectNode.prototype, {
    constructor: {
      value: UIObject,
      enumerable: true,
      writable: true,
      configurable: true
    }
  });

  function _assign(target, source) {
    for (var property in source)
      if (source.hasOwnProperty(property))
        _defineProperty(target, property, _get(source, property, this));

    return target;
  }

  function _toConsumableArray(arg) {
    return _toConsumableArray = function (arg) {
      return Array.isArray(arg) ? arg
        : 
        Object(arg)
          .values();
    }, 
    _toConsumableArray(arg);
function backdropClasses() {
  return ['modal-backdrop', {
    fade: !this.noFade,
    show: this.is_show || Boolean(this.size), _defineProperty(_ref, 'modal-dialog-centered', this.centered), _ref)
  ];
}
dialogClasses() {
  return ['modal-dialog', (_ref = {}, _defineProperty(_ref, 'modal-' + this.size, show: this.is_show, 'd-block': this.is_block}, this.modalClass]
}.
computed: {
    modalClasses: function modalClasses() {
      return ['modal', {
        fade: !this.noFade,
        lazy: {
      type: Boolean,
      default: false
    },
    busy: {
      type: Boolean,
      default: false
    }
  },

  bodyTextVariant: {
      type: String,
      default: null
    },
    modalClass: {
      type: [String, Array],
      default: null
    },
    footerBorderVariant: {
      type: String,
      default: null
    },
    footerClass: {
      type: [String, Array],
      default: null
    },
    hideHeader: {
      type: Boolean,
      default: false
    },
    hideFooter: {
      type: Boolean,
      default: false
    },
    hideBackDrop: {
      type: Boolean,
      default: false
    },
    okOnly: {
      type: Boolean,
      default: false
    },
    okDisabled: {
      type: Boolean,
      default: false
    },
    cancelDisabled: {
      type: Boolean,
      default: false
    },
    headerCloseLabel: {
      type: String,
      default: null
    },
    returnFocus: {
      type: Boolean,
      default: false
    },
    headerBorderVariant: {
      type: String,
      default: null
    },
    headerTextVariant: {
      type: String,
      default: null
    },
    headerClass: {
      type: [String, Array],
      default: null
    },
    bodyBgVariant: {
      type: String,
      default: null
    },
    bodyClass: {
      type: [String, Array],
      default: null
    },
    footerBgVariant: {
      type: String,
      default: null
    },
    footerClass: {
      type: [String, Array],
      default: null
    },
    hideHeader: {
      type: Boolean,
      default: false
    },
    hideHeaderClose: {
      type: Boolean,
      default: false
    },

  returnFocus: this.returnFocus || null
  },
  model: {
    prop: 'visible',
    event: 'change'?
  },
  data: function data() {
    return {
      is_hidden: this.lazy || false,
      is_visible: false,
      is_transitioning: false,
      is_show: false,
      is_block: false,
      scrollbarWidth: 0,
      isBodyOverflowing: false,
      return_focus: this.returnFocus || null
    },
  }
}

// Modal Dialog wrapper
var modalDialog = h('div', { class: this.dialogClasses }, [modalContent], [modal]);

// Modal Backdrop
var backdrop = h('div', { class: this.backdropClasses }, [modal, backdrop]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterLeave }, [modal]]);

// Modal Dialog wrapper
var modalDialog = h('div', { class: this.dialogClasses }, [modalContent]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterLeave }, [modal]]);

// Modal Backdrop
var backdrop = h('div', { class: this.backdropClasses }, [modal, backdrop]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterLeave }, [modal]]);

// Modal Dialog wrapper
var modalDialog = h('div', { class: this.dialogClasses }, [modalContent]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterEnter }, [modal]]);

// Modal Backdrop
var backdrop = h('div', { class: this.backdropClasses }, [modal, backdrop]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterEnter }, [modal]]);

// Modal Dialog wrapper
var modalDialog = h('div', { class: this.dialogClasses }, [modalContent]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterEnter }, [modal]]);

// Modal Backdrop
var backdrop = h('div', { class: this.backdropClasses }, [modal, backdrop]);

// Wrap modal in transition
modal = h('transition', { props: { enterClass: '', enterToClass: '', enterActiveClass: '', leaveClass: '', leaveActiveClass: '', on: { before-enter: this.onBeforeEnter, enter: this.onEnter, before-leave: this.onBeforeLeave, 'after-enter': this.onAfterEnter, 'after-leave': this.onAfterEnter }, [modal]]);
UI Event Handlers

onClickOut: function onClickOut(evt) {
  // If backdrop clicked, hide modal
  if (this.is_visible & & !this.noCloseOnBackdrop) {
    this.hide('backdrop');
  }
}

onEsc(evt) {
  // If ESC pressed, hide modal
  if (evt.keyCode === KeyCodes.ESC & & this.is_visible & & !this.noCloseOnEsc) {
    this.hide('esc');
  }
}

onFocusout: function onFocusout(evt) {
  // If focus leaves modal, bring it back
  // 'focusout' Event Listener bound on content
  var content = this.$refs.content;
  if (!this.noEnforceFocus & & this.is_visible & & !content.contains(evt.relatedTarget)) {
    // Don't try and focus if we are SSR
    if (typeof document === 'undefined') {
      return;
    }
    var content = this.$refs.content;
    var modal = this.$refs.modal;
    var activeElement = document.activeElement;
    if (activeElement & & content & & content.contains(activeElement)) {
      // If activeElement is child of content, no need to change focus
    } else if (content) {
      if (modal) {
        modal.scrollTop = 0;
      }
      // Focus the modal content wrapper
      content.focus();
    }
  }
}

setResizeEvent: function setResizeEvent(on) {
  var _this = this;

  ['resize', 'orientationchange'].forEach(function (evtName) {
    if (on) {
      eventOn(window, evtName, _this.adjustDialog);
    } else {
      eventOff(window, evtName, _this.adjustDialog);
    }
  });
}

showHandler: function showHandler(id, triggerEl) {
  if (id === this.id) {
    this.return_focus = triggerEl || null;
    this.show();
  }
}

hideHandler: function hideHandler(id) {
  if (id === this.id) {
    this.hide();
  }
}

modalListener: function modalListener(bvEvt) {
  // If another modal opens, close this one
  if (bvEvt.vueTarget !== this) {
    this.hide();
  }
}

focusFirst: function focusFirst() {
  // Don't try and focus if we are SSR
  if (typeof document === 'undefined') {
    return;
  }
  var content = this.$refs.content;
  var modal = this.$refs.modal;
  var activeElement = document.activeElement;
  if (activeElement & & content && content.contains(activeElement)) {
    // If activeElement is child of content, no need to change focus
  } else if (content) {
    if (modal) {
      modal.scrollTop = 0;
    }
    // Focus the modal content wrapper
    content.focus();
  }
}

returnFocusTo: function returnFocusTo() {
  var el = this.returnFocus || this.return_focus || null;
  if (typeof el === 'string') {
    // CSS Selector
    el = select(el);
  } else if (el instanceof Element) {
    el = el.$el || el;
  }
  if (isVisible(el)) {
    el.style = computedStyle(el);
    el.style.paddingRight = el.style.paddingRight || 0;
  }
}

getScrollbarWidth: function getScrollbarWidth() {
  var scrollDiv = document.createElement('div');
  scrollDiv.className = 'modal-scrollbar-measure';
  document.body.appendChild(scrollDiv);
  this.scrollbarWidth = scrollDiv.getBoundingClientRect().width - scrollDiv.clientWidth;
  document.body.removeChild(scrollDiv);
}

adjustDialog: function adjustDialog() {
  if (!this.is_visible) {
    return;
  }
  var modal = this.$refs.modal;
  var isModalOverflowing = modal.scrollHeight > document.documentElement.clientHeight;

  if (!this.isBodyOverflowing & & isModalOverflowing) {
    modal.style.paddingLeft = this.scrollbarWidth + 'px';
  }

  if (!this.isBodyOverflowing & & !isModalOverflowing) {
    modal.style.paddingRight = this.scrollbarWidth + 'px';
  }
}

resetAdjustments: function resetAdjustments() {
  var modal = this.$refs.modal;
  modal.style.paddingLeft = 0;
  modal.style.paddingRight = 0;
}

checkScrollbar: function checkScrollbar() {
  var rect = getBCR(document.body);
  this.isBodyOverflowing = rect.left + rect.right < window.innerWidth;
  this.isModalOverflowing = modal.scrollHeight > document.documentElement.clientHeight;
  if (!this.isBodyOverflowing & & this.isModalOverflowing) {
    modal.style.paddingLeft = this.scrollbarWidth + 'px';
  }

  if (!this.isBodyOverflowing & & !this.isModalOverflowing) {
    modal.style.paddingRight = this.scrollbarWidth + 'px';
  }
}

selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
  var actualPadding = el.style.paddingRight;
  var calculatedPadding = computedPadding(el, 'paddingRight');
  setAttr(el, 'data-padding-right', actualPadding);
  el.style.paddingRight = parseFloat(calculatedPadding) + this.scrollbarWidth + 'px';
});

// Adjust sticky content margin
selectAll(Selector.STICKY_CONTENT).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el, 'marginRight');
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) - this.scrollbarWidth + 'px';
});

// Adjust navbar-toggler margin
selectAll(Selector.NAVBAR_TOGGLER).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el, 'marginRight');
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) + this.scrollbarWidth + 'px';
});

// Adjust fixed content padding
var actualPadding = el.style.paddingRight;
var calculatedPadding = computedPadding(el, 'paddingRight');
setAttr(el, 'data-padding-right', actualPadding);
el.style.paddingRight = parseFloat(calculatedPadding) + this.scrollbarWidth + 'px';

// Adjust sticky content margin
selectAll(Selector.STICKY_CONTENT).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el, 'marginRight');
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) - this.scrollbarWidth + 'px';
});

// Adjust nav-bar-toggler margin
selectAll(Selector.NAVBAR_TOGGLER).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el, 'marginRight');
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) + this.scrollbarWidth + 'px';
});

// Adjust fixed content padding

typeof = function _typeof(obj) {
  return _typeof2(obj);
}

else {
  _typeof = function _typeof(obj) {
    return obj && typeof Symbol === "function" && obj.constructor === Symbol && typeof obj !== "Symbol" ? "symbol" : _typeof2(obj);
  }
}

return _typeof(obj);
}

const Clipboard = require('clipboard');

export function copyText (text, container) {
  return new Promise(function (resolve, reject) {
    const fakeElement = document.createElement('button')
    const clipboard = new Clipboard(fakeElement, {
      text: () => ("copy"),
      action: () => ("copy"),
      container: typeof container === 'object' ? container : document.body
    })
    clipboard.on('success', error => {
      clipboard.destroy()
      resolve(error)
    })
    clipboard.on('error', error => {
      clipboard.destroy()
      reject(error)
    })
    clipboard.on('cancel', error => {
      clipboard.destroy()
      reject(error)
    })
    fakeElement.click()
  })
}

export function iframeCodeFor (url, width, height) {
  return `<iframe width="${width}" height="${height}" src="${IframeResizer.deletePymParams(url)}" frameborder="0" allowfullscreen></iframe>`
}

export function pymCodeFor (url) {
  return IframeResizer.template(url)
}

export function copyEmbedCode () {
  return copyText(this/embedCode(), this.$el).then(() => {
    this.selectCode()
  })
}

export function selectCode () {
  this.$el.querySelector('.embed-form__code').select()
}

export function embedCode (withPym = this/responsiveCheck) {
  const width = isNaN(this/width) ? this/width : Math.max(this/width, this/minWidth)
  const height = Math.max(this/height, this/minHeight)
  return withPym ? this/pymCodeFor(this/currentUrl) : this/iframeCodeFor(this/currentUrl, this.width, this.height)
  .then(() => { return this.url || window.location.href
  })
  .then(url => IframeResizer.deletePymParams(url))
  .then(url => {
    const iframeCode = IframeResizer/iframeCodeFor(url)
    const pymCode = IframeResizer/pymCodeFor(url)
    this.selectCode()
    this/embedCode/(withPym = this/responsiveCheck)
    this/iframeCode = iframeCode
    this/pymCode = pymCode
    this/embedPreview = this/embedCode/(withPym = true)
    this/iframeCodeFor/(url, this.width, this.height)
    return `<iframe width="\${this/width}" height="\${this/height}" src="\${this/url}" frameborder="0" allowfullscreen></iframe>`
  })
  .then(() => { return this/embedPreview })
  .then(iframe => this/iframeCode/(iframe)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
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  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
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  .then(() => { return this/iframeCode/(withPym = true)
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  .then(() => { return this/iframeCode/(withPym = true)
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  })
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  })
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  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentUrl, this.width, this.height)
  })
  .then(() => { return this/iframeCode/(withPym = true)
  })
  .then(() => { return this/iframeCodeFor/(this/currentU
import { render, staticRenderFns } from 'vue-loader/lib/index.js??vue-loader-options!./EmbedForm.vue?vue&type=template&id=502aea85&scoped=true&
import script from 'vue-loader/lib/index.js??vue&type=script&lang=js&
import { faCode, faEnvelope, faTwitter, faFacebook, faLinkedin } from '@fortawesome/free-solid-svg-icons'
import { library } from './Fa'

/**
 * SharingOptions
 */
export default {
  i18n,
  name: 'SharingOptions',
  components: {
    bModal,
    EmbedForm,
    SocialSharing,
    Fa
  },
  beforeMount () {
    library.add(faCode, faEnvelope, faTwitter, faFacebook, faLinkedin)
    // Inject Fa components in child component
    SocialSharing.components.Fa = require('./Fa').default
  },
  props: {
    /**
     * URL to be shared.
     */
    url: {
      type: String,
      default: () => config.get('sharing-options.url', null) || IframeResizer.deletePymParams()
    },
    /**
     * Direction of the sharing options. Can be: <em>row</em>, <em>row-reverse</em>, <em>column</em> or <em>column-reverse</em>.
     */
    direction: {
      default: 'row',
      validator (value) {
        return ['row', 'row-reverse', 'column', 'column-reverse'].indexOf(value) !== -1
      }
    },
    /**
     * Sharing contents wich can be generic (e.g. title, description, etc.)
     */
    values: {
      type: Object,
      default: () => ({})
    },
    /**
     * The list of all the keys to automaticly inject in each social button.
     */
    valuesKeys: {
      type: Array,
      default: () => []
    }
  }
}
default: () => ['url', 'title', 'description', 'media', 'twitter-user'],
    type: Array
  },
  /**
   * Disable embed button.
   */
  noEmbed: {
    type: Boolean
  },
  /**
   * Minimum height of the iframe in the embed form.
   */
  iframeMinHeight: {
    type: Number
  },
  /**
   * Minimum width of the iframe in the embed form.
   */
  iframeMinWidth: {
    type: Number
  },
  /**
   * Prevent from reading default value from the <code>meta</code>.
   */
  noMeta: {
    type: Boolean
  },
  methods: {
    showEmbedForm () {
      this.showShareOptions = false
      return this.$refs.embedForm.show()
    },
    valuesFor (network) {
      const values = Object.assign(this.metaValues, this.values)
      return reduce(this.valuesKeys, (res, key) => {
        res[key] = get(values, `${network}_${key}`, values[key])
        return res
      }, {})
    },
    defaultValueFor(key, metaSelector = null) {
      if (this.noMeta || !metaSelector) {
        return config.get(key)
      }
      return get(document.head.querySelector(metaSelector), 'content', config.get(key))
    },
    computed: {
      style () {
        return {
          'flex-direction': this.direction
        }
      },
      metaValues () {
        return {
          'url': this.url,
          'title': this.defaultValueFor('sharing-options.title'),
          'description': this.defaultValueFor('sharing-options.description', 'meta[name="description"]'),
          'facebook_title': this.defaultValueFor('sharing-options.facebook_title', 'meta[property="og:title"]'),
          'facebook_description': this.defaultValueFor('sharing-options.facebook_description', 'meta[property="og:description"]'),
          'facebook_media': this.defaultValueFor('sharing-options.facebook_media', 'meta[property="og:image"]'),
          'twitter_media': this.defaultValueFor('sharing-options.twitter_media', 'meta[name="twitter:image"]'),
          'twitter_twitter-user': this.defaultValueFor('sharing-options.twitter-user', 'meta[name="twitter:site"]'),
          'facebook_url': this.defaultValueFor('app.home', 'meta[property="og:url"]'),
          'twitter_url': this.defaultValueFor('sharing-options.twitter-url', 'meta[name="twitter:url"]'),
          'twitter_media': this.defaultValueFor('sharing-options.twitter-media', 'meta[name="twitter:image"]'),
          'twitter_twitter-user': this.defaultValueFor('sharing-options.twitter-user', 'meta[name="twitter:site"]')
        }
      }
    }
  }
</script>

<style lang="scss">
  @import '../styles/lib';
  @import '../styles/mixins';

  .sharing-options {
    display: flex;

    &__link {
      display: block;
      margin: 0 4;
      height: 2.5em;
      background: black;
      width: 2.5em;
      text-align: center;
      font-size: 80%;
      border-radius: 50%;
      cursor: pointer;
      color: white;
      position: relative;

      i {
        position: absolute;
        top: 50%;
        left: 50%;
        transform: translate(-50%, -50%);
      }

      & > a, & > button {
        width: 100%;
        height: 100%;
        display: block;
        border: 0;
        text-align: center;
        font-size: 80%;
      }
    }
  }
</style>
```javascript
import { config } from 'iyorss/lib/config'
import { faTimes } from '@fortawesome/free-solid-svg-icons/faTimes'
import { faTwitter } from '@fortawesome/free-brands-svg-icons/faTwitter'
import { faFacebook } from '@fortawesome/free-brands-svg-icons/faFacebook'
import { faLinkedin } from

export default (

```
function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot call a class as a function"); } }

import Popper from 'popper.js';
import BvEvent from './bv-event.class';
import { assign } from './object';
import { from as arrayFrom } from './array';
import { closest, select, isVisible, isDisabled, getCS, addClass, removeClass, hasClass, setAttr, removeAttr, getAttr, eventOn, eventOff } from './dom';

var NAME = 'tooltip';
var CLASS_PREFIX = 'bs-tooltip';
var BSCLS_PREFIX_REGEX = new RegExp('\\b' + CLASS_PREFIX + '\\S+', 'g');

var TRANSITION_DURATION = 150;

// Modal $root hidden event
var MODAL_CLOSE_EVENT = 'bv::modal::hidden';
// Modal container for appending
tip/popover
var MODAL_CLASS = '.modal-content';

var AttachmentMap = {
  AUTO: 'auto',
  TOP: 'top',
  RIGHT: 'right',
  BOTTOM: 'bottom',
  LEFT: 'left',
  TOPLEFT: 'top',
  TOPRIGHT: 'top',
  RIGHTTOP: 'right',
  RIGHTBOTTOM: 'right',
  BOTTOMLEFT: 'bottom',
  BOTTOMRIGHT: 'bottom',
  LEFTTOP: 'left',
  LEFTBOTTOM: 'left',
  OUT: 'out',
  jsx, import create from './create.js';

  // Popover, tooltip
  var Tooltip = function () {
    // Main constructor
    function ToolTip(element, config, $root) {
      _classCallCheck(this, ToolTip);

      // New tooltip object
      this.$isEnabled = true;
      this.$fadeTimeout = null;
      this.$hoverTimeout = null;
      this.$visibleInterval = null;
      this.$hoverState = '';
      this.$activeTrigger = {};
      this.$popper = null;
      this.$element = element;
      this.$tip = null;
      this.$id = generateId(this.constructor.NAME);
      this.$root = $root || null;
      this.$routeWatcher = null;
      // We use a bound version of the following handlers for root/modal listeners to maintain the 'this' context
      this.$forceHide = this.forceHide.bind(this);
      this.$doHide = this.doHide.bind(this);
      this.$doShow = this.doShow.bind(this);
      this.$doEnable = this.doEnable.bind(this);
      // Set the configuration
      this.updateConfig(config);
    }

    // NOTE: Overridden by PopOver class
    this._createClass(ToolTip, 
      { key: 'updateConfig', value: function updateConfig(config) {
        // Update config
        this.$config = config;
        this.unListen();
      }
    }, 
    { key: 'destroy', value: function destroy() {
      // Destroy this instance
      this.$_Destroy();
    }
  });

  // Create class
  this._createClass(ToolTip, 
    [ { key: 'create', value: function create() {
      // Merge config into defaults. We use \this\ here because PopOver overrides Default
      this.$config = config;
      this.$equalize(config);
    } } ],
    [ { key: 'destroy', value: function destroy() {
      // Destroy this instance
      this.$_Destroy();
    } } ]
  );

  // Return function
  function (Constructor, protoProps, staticProps) { if (protoProps) defineProperties(Constructor.prototype, protoProps); if (staticProps) defineProperties(Constructor, staticProps); } return Constructor; }();

  // Function
  function _defineProperty(target, descriptor) { throw new TypeError("Cannot call a function"); } return function (target, descriptor, value) { throw new TypeError("Cannot call a function"); }();

  function _defineProperties(target, props) { for (var i = 0; i < props.length; i++) {
    var descriptor = props[i];
    descriptor.enumerable = descriptor.enumerable || false;
    descriptor.configurable = descriptor.configurable || false;
    if ('value' in descriptor) descriptor.writable = true;
    Object.defineProperty(target, descriptor.key, descriptor); } }
var relatedTarget = e.relatedTarget;
      var $element = this.$element;
      var $tip = this.$tip;
      if (type ===
        return;
      }
      if
        // If disabled, don’t do anything. Note: if tip is shown before element gets
        value: function handleEvent(e) {
      // This special method allows us to use "this" as the event handlers
      for global show/hide/enable/disable events
      this.setRootListener(false);
    }
  }, {
    key: 'handleEvent',
    value: function listen() {
      var _this6 = this;

      var triggers = ['click', 'focusin', 'focusout', 'mouseenter',
          eventOn(_this6.$element, 'mouseleave', _this6);
        } else if (trigger === 'focus') {
          eventOn(_this6.$element, 'focusout', _this6);
        } else if (trigger === 'blur') {
          // Used to close $tip when element loses focus
          triggers.forEach(function (trigger) {
            if (trigger === 'click') {

              this.setRootListener(true);

            // Using "this" as the handler will get automatically directed to this.handleEvent

            // And maintain our binding to this$triggers.forEach(function (trigger) {
            // Used to close Stip when element looses focus
            eventOn(_this6.$element, 'focusout', _this6);
          } else if (trigger === 'mouseover',
            _this6);\n            eventOn(_this6.$element, 'mouseleave', _this6);\n            _this6;\n            this;\n            var _this6 = this;\n            var triggers = this.$config.trigger.trim().split(/\s+/);
            var el = this.$element;\n            // Listen for global show/hide events
            this.setRootListener(true);\n            // Using ‘this’ as the handler will get automatically directed to this.handleEvent

            // And maintain our binding to ‘this’$triggers.forEach(function (trigger) {
            // Used to close Stip when element looses focus
            eventOn(_this6.$element, 'focusout', _this6);
          } else if (trigger === 'hover') {
            // If disabled, don’t do anything. Note: if tip is shown before element gets
            // disabled, then tip not close until no longer disabled or forcefully closed.
            return;
          }
          // Add tab index so tip can be focused, and to allow it to be set as relatedTarget in focusin/out events
          this.$tip.tabIndex = -1;\n          return this.$tip;\n        } ];

      // NOTE: Overridden by PopOver class
        }, {

      // NOTE: Overridden by PopOver
        this.$config.trigger.trim().split(/\s+/);
      var el = this.$element;\n      // Listen for global show/hide events
      this.setRootListener(true);\n      // Using ‘this’ as the handler will get automatically directed to this.handleEvent

      // And maintain our binding to ‘this’$triggers.forEach(function (trigger) {
      // Used to close Stip when element looses focus
      eventOn(_this6.$element, 'focusout', _this6);
    } else if (trigger === 'blur') {
      // If disabled, don’t do anything. Note: if tip is shown before element gets
      // disabled, then tip not close until no longer disabled or forcefully closed.
      return;
    }
  }];

      // And maintain our binding to 'this$triggers.forEach(function (trigger) {
      // Used to close Stip when element looses focus
      eventOn(_this6.$element, 'focusout', _this6);
    } else if (trigger === 'hover') {
      // If disabled, don’t do anything. Note: if tip is shown before element gets
      // disabled, then tip not close until no longer disabled or forcefully closed.
      return;
    }
  }];

      // And maintain our binding to ‘this’$triggers.forEach(function (trigger) {
      // Used to close Stip when element looses focus
      eventOn(_this6.$element, 'focusout', _this6);
    } else if (trigger === 'hover') {
      // If disabled, don’t do anything. Note: if tip is shown before element gets
      // disabled, then tip not close until no longer disabled or forcefully closed.
      return;
    }
  }];

      // And maintain our binding to 'this$triggers.forEach(function (trigger) {
      // Used to close Stip when element looses focus
      eventOn(_this6.$element, 'focusout', _this6);
    } else if (trigger === 'hover') {
      // If disabled, don’t do anything. Note: if tip is shown before element gets
      // disabled, then tip not close until no longer disabled or forcefully closed.
      return;
    }
  }];
}\n\n // Enter handler\n /* istanbul ignore next */\n\n }, {\n key: 'enter',\n value: function enter(e) {\n
var _this10 = this;\n\n
if (e) {\n
this.$activeTrigger[e.type === 'focusin' ? 'focus' : 'hover'] = true;\n
}\n
if (hasClass(this.getTipElement(), ClassName.SHOW) || this.$hoverState === HoverState.SHOW) {\n
this.$hoverState = HoverState.SHOW;\n
return;\n
}\n
clearTimeout(this.$hoverTimeout);\n
this.$hoverState = HoverState.SHOW;\n
if (!this.$config.delay || !this.$config.delay.show) {\n
this.show();\n
return;\n
}\n
this.$hoverTimeout = setTimeout(function () {\n
if (_this10.$hoverState ===
HoverState.SHOW) {\n
_this10.show();\n
}\n
}, this.$config.delay.show);\n }\n\n // Leave
handler\n /* istanbul ignore next */\n\n }, {\n key: 'leave',\n value: function leave(e) {\n
var _this11 =
this;\n\n
if (e) {\n
this.$activeTrigger[e.type === 'focusout' ? 'focus' : 'hover'] = false;\n
if (e.type ===
'focusout' && /blur/.test(this.$config.trigger)) {\n
// Special case for `blur`: we clear out the other triggers\n
this.$activeTrigger.click = false;\n
this.$activeTrigger.hover = false;\n
}\n
}\n
if
(this.isWithActiveTrigger()) {\n
return;\n
}\n
clearTimeout(this.$hoverTimeout);\n
this.$hoverState =
HoverState.OUT;\n
if (!this.$config.delay || !this.$config.delay.hide) {\n
this.hide();\n
return;\n
}\n
this.$hoverTimeout = setTimeout(function () {\n
if (_this11.$hoverState === HoverState.OUT) {\n
_this11.hide();\n
}\n
}, this.$config.delay.hide);\n }\n }, {\n key: 'getPopperConfig',\n value: function
getPopperConfig(placement, tip) {\n
var _this12 = this;\n\n
return {\n
placement:
this.constructor.getAttachment(placement),\n
modifiers: {\n
offset: { offset: this.getOffset(placement, tip)
},\n
flip: { behavior: this.$config.fallbackPlacement },\n
arrow: { element: '.arrow' },\n
preventOverflow: { boundariesElement: this.$config.boundary }\n
},\n
onCreate: function onCreate(data)
{\n
// Handle flipping arrow classes\n
if (data.originalPlacement !== data.placement) {\n
_this12.handlePopperPlacementChange(data);\n
}\n
},\n
onUpdate: function onUpdate(data) {\n
// Handle flipping arrow classes\n
_this12.handlePopperPlacementChange(data);\n
}\n
};\n }\n }, {\n
key: 'getOffset',\n value: function getOffset(placement, tip) {\n
if (!this.$config.offset) {\n
var arrow =
select(Selector.ARROW, tip);\n
var arrowOffset = parseFloat(getCS(arrow).width) +
parseFloat(this.$config.arrowPadding);\n
switch (OffsetMap[placement.toUpperCase()]) {\n
case +1:\n
return '+50%p - ' + arrowOffset + 'px';\n
case -1:\n
return '-50%p + ' + arrowOffset + 'px';\n
default:\n
return 0;\n
}\n
}\n
return this.$config.offset;\n }\n }, {\n key: 'getPlacement',\n
value: function getPlacement() {\n
var placement = this.$config.placement;\n
if (typeof placement ===
'function') {\n
return placement.call(this, this.$tip, this.$element);\n
}\n
return placement;\n }\n }, {\n
key: 'isWithActiveTrigger',\n value: function isWithActiveTrigger() {\n
for (var trigger in this.$activeTrigger)
{\n
if (this.$activeTrigger[trigger]) {\n
return true;\n
}\n
}\n
return false;\n }\n\n // NOTE:
Overridden by PopOver class\n\n }, {\n key: 'cleanTipClass',\n value: function cleanTipClass() {\n
var tip =
this.getTipElement();\n
var tabClass = tip.className.match(BSCLS_PREFIX_REGEX);\n
if (tabClass !==
null && tabClass.length > 0) {\n
tabClass.forEach(function (cls) {\n
removeClass(tip, cls);\n
});\n
}\n }\n }, {\n key: 'handlePopperPlacementChange',\n value: function handlePopperPlacementChange(data)
{\n
this.cleanTipClass();\n
this.addAttachmentClass(this.constructor.getAttachment(data.placement));\n }\n
}, {\n key: 'fixTransition',\n value: function fixTransition(tip) {\n
var initConfigAnimation =
this.$config.animation || false;\n
if (getAttr(tip, 'x-placement') !== null) {\n
return;\n
}\n
removeClass(tip, ClassName.FADE);\n this.$config.animation = false;\n
this.hide();\n
this.show();\n
this.$config.animation = initConfigAnimation;\n }\n }], [{\n key: 'getAttachment',\n value: function
getAttachment(placement) {\n
return AttachmentMap[placement.toUpperCase()];\n }\n }, {\n key:
'Default',\n get: function get() {\n
return Defaults;\n }\n\n // NOTE: Overridden by PopOver class\n\n },
{\n key: 'NAME',\n get: function get() {\n
return NAME;\n }\n }]);\n\n return ToolTip;\n}();\n\nexport
default ToolTip;","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; };\n\nvar _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

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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 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; }

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; }

import ToolTip from './tooltip.class';
import { assign } from './object';
import { select, addClass, removeClass, getAttr } from './dom';

var NAME = 'popover';
var CLASS_PREFIX = 'bs-popover';
var BSCLS_PREFIX_REGEX = new RegExp('\\b' + CLASS_PREFIX + '\\S+', 'g');

var Defaults = assign({}, ToolTip.Default, {
  placement: 'right',
  trigger: 'click',
  content: '',
  template: '<div class="popover" role="tooltip">' + '<div class="arrow"></div>' + '<h3 class="popover-header"></h3>' + '<div class="popover-body"></div></div>

var ClassName = {
  FADE: 'fade',
  SHOW: 'show'
}

var Selector = {
  TITLE: '.popover-header',
  CONTENT: '.popover-body'

  /* istanbul ignore next: dificult to test in Jest/JS Dom environment */
};

var PopOver = function (_ToolTip) {
  _inherits(PopOver, _ToolTip);

  function PopOver() {
    _classCallCheck(this, PopOver);

    return _possibleConstructorReturn(this, (PopOver.__proto__ || Object.getPrototypeOf(PopOver)).apply(this, arguments));
  }

  _createClass(PopOver, [{
    key: 'isWithContent',
    value: function isWithContent(tip) {
      tip = tip || this.$tip;
      if (!tip) {
        return false;
      }
      var hasTitle = Boolean((select(Selector.TITLE, tip) || {}).innerHTML);
      var hasContent = Boolean((select(Selector.CONTENT, tip) || {}).innerHTML);
      return hasTitle || hasContent;
    }
  }, {
    key: 'addAttachmentClass',
    value: function addAttachmentClass(attachment) {
      addClass(this.getTipElement(), CLASS_PREFIX + '-' + attachment);
    }
  }, {
    key: 'setContent',
    value: function setContent(tip) {
      // we use append for html objects to maintain js events/components
      this.setElementContent(select(Selector.TITLE, tip), this.getTitle());
      this.setElementContent(select(Selector.CONTENT, tip), this.getContent());
      removeClass(tip, ClassName.FADE);
      removeClass(tip, ClassName.SHOW);
    }
  }, {
    key: 'cleanTipClass',
    value: function cleanTipClass() {
      var tip = this.getTipElement();
      var tabClass = tip.className.match(BSCLS_PREFIX_REGEX);
      if (tabClass) {
        tabClass.forEach(function (cls) {
          removeClass(tip, cls);
        });
      }
    }
  }, {
    key: 'getTitle',
    value: function getTitle() {
      var title = this.$config.title || '';
      if (typeof title === 'function') {
        title = title(this.$element);
      }
      if ((typeof title === 'undefined') || title.nodeType && !title.innerHTML.trim()) {
        // We have a dom node, but without inner content, so just return an empty string
        title = '';
      }
      if (typeof title === 'string') {
        title = title.trim();
      }
      return title;
    }
  }, {
    key: 'getContent',
    value: function getContent() {
      var content = this.$config.content || '';
      if (typeof content === 'function') {
        content = content(this.$element);
      }
      if ((typeof content === 'undefined') || content.nodeType && !content.innerHTML.trim()) {
        // We have a dom node, but without inner content, so just return an empty string
        content = '';
      }
      return content;
    }
  }], [{
    key: 'Default',
    get: function get() {
      return Defaults;
    }
  }, {
    key: 'NAME',
    get: function get() {
      return NAME;
    }
  }]);

  return PopOver;
}(ToolTip);

export default PopOver;
&.headroom {
  will-change: transform;
  transition: transform 200ms linear;
  &.unpinned {
    transform: translateY(-100%);
  }
  &.pinned {
    transform: translateY(0%);
  }
  &.frozen {
    transform: translateY(0%);
  }
  @include media-breakpoint-down(md) {
    display: none;
  }
}

.navbar-toggler {
  background: $mercury;
  position: absolute;
  right: $spacer;
  top: $spacer / 2;
  margin: 0;
  .dropdown-item {
    white-space: normal;
    max-width: 440px;
    width: 90vw;
    .nav-link {
      font-weight: bolder;
      padding-right: $spacer * 1.5;
      &:after {
        background: $body-color;
        width: 2px;
        height: 32px;
        position: absolute;
        right: 0;
        top: 50%;
        transform: translateY(-50%);
        @include media-breakpoint-down(sm) {
          display: none;
        }
      }
    }
  }
}

<template>
  <div :id="iframeId"></div>
</template>

<script>
  import { injectAssets } from '../utils/assets'

  var iframeUniqueIdCounter = 0;

  /**
   * ResponsiveIframe
   */
  export default {
    name: 'ResponsiveIframe',
    props: {
      /**
       * URL of the generated iframe code.
       */
      url: {
        type: String,
        required: true
      },
      /**
       * Option to pass to the constructor of the pymParent instance
       */
      options: {
        type: Object,
        default: () => ({ })
      },
    },
    data () {
      return {
        iframeId: `iframe-${++iframeUniqueIdCounter}`
      }
    },
    mounted () {
      injectAssets('https://pym.nprapps.org/pym.v1.min.js').then(() => {
        new pym.Parent(this.iframeId, this.url, this.options)
      })
    }
  }
</script>

/* normalize component */
import normalizer from "!../../node_modules/vue-loader/lib/runtime/componentNormalizer.js"
var component = normalizer(
  script,
  render,
  staticRenderFns,
  false,
  null,
  null,
  null
)

component.options.__file = "ResponsiveIframe.vue"
export default component.exports

var render, staticRenderFns
import script from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"

import { render, staticRenderFns } from "$-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./ResponsiveIframe.vue?vue&type=script&lang=js&"
/* normalize component */
import normalizer from '!
import mod from '!

import VueI18n from 'vue-i18n'
import { basename, extname } from 'path'

import i18n from './i18n'
export { default as config } from './config'
export { default as ContentPlaceholder } from './components/ContentPlaceholder.vue'
export { default as DonateForm } from './components/DonateForm.vue'
export { default as EmbeddableFooter } from './components/EmbeddableFooter.vue'
export { default as EmbedForm } from './components/EmbedForm.vue'
export { default as FollowUsPopover } from './components/FollowUsPopover.vue'
export { default as Fa } from './components/Fa'
export { default as GenericFooter } from './components/GenericFooter.vue'
export { default as ImddbHeader } from './components/ImddbHeader.vue'
export { default as ResponsiveIframe } from './components/ResponsiveIframe.vue'
export { default as SharingOptions } from './components/SharingOptions.vue'
export { default as SignUpForm } from './components/SignUpForm.vue'
export { default as SlideUpDown } from './components/SlideUpDown.vue'

import * as components from './components'

class Murmur {
  static setLocaleMessage(lang, message) {
    return this.i18n.setLocaleMessage(lang, message)
  }
  static
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"highlight": "$50/month and above (or $600/year and above)",
"list": [
  "Invitation to exclusive chat with ICIJ staff about our latest major project after publication",
  "Opportunity to submit your questions to ICIJ staff. Several questions will be answered in our quarterly ICIJ Insider newsletter",
  "Sneak previews behind the scenes of ICIJ’s work (monthly)",
  "ICIJ Insider Newsletter (quarterly)",
  "ICIJ’s Weekly Update"
]
"sign-up-form": {
  "label": "Stories in your inbox",
  "placeholder": "Email address",
  "submit": "Sign up"
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-tgz/package/lib/locales/en.json
No license file was found, but licenses were detected in source scan.

"version":3,"sources":[]"
var Symbol = require('./_Symbol');

/** 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` of values.
 */
var nativeObjectToString = objectProto.toString;

/**
 * Built-in value references. */
var symToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * A specialized version of `baseGetTag` which ignores
 * `Symbol.toStringTag` values.
 *
 * @private
 * @param {*} value The value to query.
 * @returns {string} Returns the raw `toStringTag`. 
 */
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),
      tag = value[symToStringTag];

  try {
    value[symToStringTag] = undefined;
    var unmasked = true;
  } catch (e) {} 

  var result = nativeObjectToString.call(value);
  if (unmasked) {
    if (isOwn) {
      value[symToStringTag] = tag;
    } else {
      delete value[symToStringTag];
    }
  }
  return result;
}

module.exports = getRawTag;
return this.then;

  var isFunction = typeof onFinally == 'function';

  return this.then(
    isFunction ? function (x) {
      return promiseResolve(C, onFinally()).then(function () { return x; });
    } : onFinally,
    isFunction ? function (e) {
      return promiseResolve(C, onFinally()).then(function () {
        throw e;
      });
    } : onFinally
  );
})

// Internal function.
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;

'use strict';
// 21.2.5.3 get RegExp.prototype.flags
var anObject = require('./_an-object');
module.exports = function (){
  var that = anObject(this);
  var result = '';
  if (that.global) result += 'g';
  if (that.ignoreCase) result += 'i';
  if (that.multiline) result += 'm';
  if (that.unicode) result += 'u';
  if (that.sticky) result += 'y';
  return result;
};

var root = require('./_root'),
    stubFalse = require('./stubFalse');

/** Detect free variable 'exports'. */
var freeExports = typeof exports == 'object' && exports && !exports.nodeType && exports;

/** Detect free variable 'module'. */
var freeModule = freeExports && typeof module == 'object' && module && !module.nodeType && module;

/** Built-in value references. */
var Buffer = freeModule ? root.Buffer : undefined;

/* Built-in method references for those with the same name as other 'lodash' methods. */
var nativeIsBuffer = Buffer ? Buffer.isBuffer : undefined;

/**
 * Checks if `value` is a buffer.
 *
 * @static
 * @memberOf _
 * @since 4.3.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a buffer, else `false`.
 * @example
 *
 * _.isBuffer(new Buffer(2));
 * // => true
 *
 * _.isBuffer(new Uint8Array(2));
 * // => false
 */
var isBuffer = nativeIsBuffer || stubFalse;

module.exports = isBuffer;

// 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);
};

var identity = require('./identity'),
    overRest = require('./_overRest'),
    setToString = require('./_setToString');

/**
 * The base implementation of `_.rest` which doesn't validate or coerce arguments.
 *
 * @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.
 * @returns {Function} Returns the new function.
 */
function baseRest(func, start) {
  return setToString(overRest(func, start, identity), func + '');
}

module.exports = baseRest;

import mod from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-2!../../node_modules/sass-loader/lib/loader.js??ref--8-oneOf-1-3!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./EmbeddableFooter.vue?vue&type=style&index=0&id=36cb84e2&lang=scss&scoped=true&"; export default mod; export * from "-!../../node_modules/mini-css-extract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-1-1!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--8-oneOf-1-2!../../node_modules/sass-loader/lib/loader.js??ref--8-oneOf-1-3!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./EmbeddableFooter.vue?vue&type=style&index=0&id=36cb84e2&lang=scss&scoped=true&"; export default mod.exports = function (x) {
  x\[x.constructor.toStringTag\] === 'Symbol';
  return false;
} = function (x) {
  return x\[x.constructor.toStringTag\] === 'Symbol';
};

// The base implementation of .

/*!
 * jQuery JavaScript Library v3.3.1
 *
 * Includes Sizzle.js
 * https://sizzlejs.com/
 *
 * Copyright JS Foundation and other contributors
 * Released under the MIT license
 * https://jquery.org/license
 *
 * Date: 2018-01-20T17:24Z
 */
( function( global, factory ) {

	"use strict";

	if ( typeof module === "object" && typeof module.exports === "object" ) {

		// For CommonJS and CommonJS-like environments where a proper
Handle a deep copy situation

- Extend jQuery itself if only one argument is passed to it
  (i.e., length)
- Handle case when target is a string or something
- (possible in deep copy)
- Extend jQuery instead of jQuery
  type to catch object
- Use toString
- Detect obvious negatives
- Use to string
- Instead of jQuery.type
- Without the ready module
- Return the modified object
- In each copy of jQuery on the page

jQuery.extend({

  // Unique for each copy of jQuery on the page
  expando: "jQuery" + (version + Math.random() ).replace( /\D/g, "" ),

  // Assume jQuery is ready without the ready module
  noConflict: true,

  // that pass the validator function
  for ( ; i < length; i++ ) {
    callbackInverse = !callback( obj[ i ], i )
    // Prevent never-ending loop
    if ( false ) {
      continue;
    }
    // Only deal with non-null/undefined values
    if ( ( options = arguments[ i ] ) != null ) {
      src = target = obj = options;
      i = 0;
      length = arguments.length;
      deep = false;
      // Handle a deep copy situation
      if ( typeof target !== "undefined" ) {
        target = clone = obj = this;
        i = 1;
        length = arguments.length;
        deep = false;
        // Handle a deep copy situation
        if ( typeof target !== "undefined" ) {
          target = clone = src = object;
          i = 1;
        }
      }
      // Extends object by merging options
      for ( name in options ) {
        target[ name ] = options[ name ];
      }
      // Merge objects with prototype
      if ( jQuery.isPlainObject( target ) ) {
        jQuery.extend( target, clone, options );
      }
      // Handle object with no prototype
      if ( jQuery.isPlainObject( src ) ) {
        jQuery.merge( target, src );
      }
      // Handle array
      if ( isArrayLike( src ) ) {
        for ( i = 0; i < length; i++ ) {
          target[ i ] = src[ i ];
        }
      }
      // Extend the base object
      for ( name in options ) {
        target[ name ] = options[ name ];
      }
    }
  }
  // Return the modified object
  return target;
},

// A global GUID counter for objects
guid: 1,

// jQuery.support is not used in Core but other
					ret.push( value );
				}
			}
		}

// Flatten any nested arrays
		return concat.apply( [ ], ret );

// A global GUID counter for objects
	

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elements have a "form" property.
			if ( elem.parentNode && elem.disabled === false ) {

				// Option
group
			//   https://html.spec.whatwg.org/multipage/forms.html#concept-option-disabled
			// All such
https://html.spec.whatwg.org/multipage/forms.html#concept-fe-disabled
			// * option elements in a disabled
			// fieldset
			//   https://html.spec.whatwg.org/multipage/forms.html#category-listed
			//

			// Check for inherited disabledness on relevant non-disabled elements:
			// * listed form-associated
enabled
		// https://html.spec.whatwg.org/multipage/scripting.html#selector-disabled
		if ( "form" in elem )

		// Knows positives: fieldset[disabled] > legend: nth-of-type(n+2) > can-disable
		// inherit disabledness on relevant non-disabled elements:
https://html.spec.whatwg.org/multipage/forms.html#concept-option-disabled

		// All such elements have a "form" property.
		return (elem.parentNode && elem.disabled === false)
elements defer to a parent optgroup if present

```javascript
if ( "label" in elem ) {
  return elem.parentNode.disabled !== disabled;
}
```

else {
```javascript
if ( "label" in elem.parentNode ) {
  return elem.parentNode.disabled === disabled;
} else {
  return elem.disabled === disabled;
}
```

```javascript
// Support: IE 6 - 11
// Use the isDisabled shortcut property to check for disabled fieldset ancestors
isDisabled = elem.isDisabled !== disabled;
```

```javascript
return elem.disabled === disabled;
```

```javascript
// Try to winnow out elements that can't be disabled before trusting the disabled property.

```javascript
// Other elements are neither :enabled nor :disabled
return false;
```

```javascript
/**
 * Returns a function to use in pseudos for positionals
 * @param {Function} fn
 * fn( matches )
 */
createPositionalPseudo = function( fn ) {
  return markFunction(function( argument ) {
    argument = +argument;
    return markFunction(function( seed, matches ) {
      var j,
      matchIndexes = fn( [], seed.length, argument ),
      matchIndexes.length;

      // Match elements found at the specified indexes
      while ( i-- ) {
        if ( matches[j] = seed[j] ) {
          return matches[j];
        }
      }
      return matches;
    });
  });
}

/**
 * Checks a node for validity as a Sizzle context
 * @param {Element|Object} context
 * @returns {Element|Object|Boolean} The input node if acceptable, otherwise a falsy value
 */
testContext = function( context ) {
  return context && typeof context.getElementsByTagName !== "undefined" && context;
}

// Expose support vars for convenience

/**
 * Detects XML nodes
 * @param {Element|Object} elem An element or a document
 * @returns {Boolean} True iff elem is a non-HTML XML node
 */

isXML = function( elem ) {
  var documentElement = elem && (elem.ownerDocument || elem).documentElement;
  return documentElement ? documentElement.nodeName !== "HTML" : false;
}
```
context ) {\n\t\t\tif ( typeof context.getElementById !== \"undefined\" && documentIsHTML ) {\n\t\t\t\tvar elem =
context.getElementById( id );\n\t\t\t\treturn elem ? [ elem ] : [];\n\t\t\t}\n\t\t};\n\t} else {\n\t\tExpr.filter[\"ID\"] =
function( id ) {\n\t\t\tvar attrId = id.replace( runescape, funescape );\n\t\t\treturn function( elem ) {\n\t\t\t\tvar node =
typeof elem.getAttributeNode !== \"undefined\" &&\n\t\t\t\t\telem.getAttributeNode(\"id\");\n\t\t\t\treturn node &&
node.value === attrId;\n\t\t\t};\n\t\t};\n\n\t\t// Support: IE 6 - 7 only\n\t\t// getElementById is not reliable as a find
shortcut\n\t\tExpr.find[\"ID\"] = function( id, context ) {\n\t\t\tif ( typeof context.getElementById !== \"undefined\"
&& documentIsHTML ) {\n\t\t\t\tvar node, i, elems,\n\t\t\t\t\telem = context.getElementById( id );\n\n\t\t\t\tif ( elem
) {\n\n\t\t\t\t\t// Verify the id attribute\n\t\t\t\t\tnode = elem.getAttributeNode(\"id\");\n\t\t\t\t\tif ( node &&
node.value === id ) {\n\t\t\t\t\t\treturn [ elem ];\n\t\t\t\t\t}\n\n\t\t\t\t\t// Fall back on
getElementsByName\n\t\t\t\t\telems = context.getElementsByName( id );\n\t\t\t\t\ti = 0;\n\t\t\t\t\twhile ( (elem =
elems[i++]) ) {\n\t\t\t\t\t\tnode = elem.getAttributeNode(\"id\");\n\t\t\t\t\t\tif ( node && node.value === id )
{\n\t\t\t\t\t\t\treturn [ elem ];\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t}\n\n\t\t\t\treturn [];\n\t\t\t}\n\t\t};\n\t}\n\n\t//
Tag\n\tExpr.find[\"TAG\"] = support.getElementsByTagName ?\n\t\tfunction( tag, context ) {\n\t\t\tif ( typeof
context.getElementsByTagName !== \"undefined\" ) {\n\t\t\t\treturn context.getElementsByTagName( tag
);\n\n\t\t\t// DocumentFragment nodes don't have gEBTN\n\t\t\t} else if ( support.qsa ) {\n\t\t\t\treturn
context.querySelectorAll( tag );\n\t\t\t}\n\t\t} :\n\n\t\tfunction( tag, context ) {\n\t\t\tvar elem,\n\t\t\t\ttmp =
[],\n\t\t\t\ti = 0,\n\t\t\t\t// By happy coincidence, a (broken) gEBTN appears on DocumentFragment nodes
too\n\t\t\t\tresults = context.getElementsByTagName( tag );\n\n\t\t\t// Filter out possible comments\n\t\t\tif ( tag ===
\"*\" ) {\n\t\t\t\twhile ( (elem = results[i++]) ) {\n\t\t\t\t\tif ( elem.nodeType === 1 ) {\n\t\t\t\t\t\ttmp.push( elem
);\n\t\t\t\t\t}\n\t\t\t\t}\n\n\t\t\t\treturn tmp;\n\t\t\t}\n\t\t\treturn results;\n\t\t};\n\n\t// Class\n\tExpr.find[\"CLASS\"] =
support.getElementsByClassName && function( className, context ) {\n\t\tif ( typeof
context.getElementsByClassName !== \"undefined\" && documentIsHTML ) {\n\t\t\treturn
context.getElementsByClassName( className );\n\t\t}\n\t};\n\n\t/* QSA/matchesSelector\n\t--------------------------------------------------------------------- */\n\n\t// QSA and matchesSelector support\n\n\t// matchesSelector(:active)
reports false when true (IE9/Opera 11.5)\n\trbuggyMatches = [];\n\n\t// qSa(:focus) reports false when true (Chrome
21)\n\t// We allow this because of a bug in IE8/9 that throws an error\n\t// whenever `document.activeElement` is
accessed on an iframe\n\t// So, we allow :focus to pass through QSA all the time to avoid the IE error\n\t// See
https://bugs.jquery.com/ticket/13378\n\trbuggyQSA = [];\n\n\tif ( (support.qsa = rnative.test(
document.querySelectorAll )) ) {\n\t\t// Build QSA regex\n\t\t// Regex strategy adopted from Diego
Perini\n\t\tassert(function( el ) {\n\t\t\t// Select is set to empty string on purpose\n\t\t\t// This is to test IE's treatment
of not explicitly\n\t\t\t// setting a boolean content attribute,\n\t\t\t// since its presence should be enough\n\t\t\t//
https://bugs.jquery.com/ticket/12359\n\t\t\tdocElem.appendChild( el ).innerHTML = \"<a id='\" + expando +
\"'></a>\" +\n\t\t\t\t\"<select id='\" + expando + \"-\\r\\\\' msallowcapture=''>\" +\n\t\t\t\t\"<option
selected=''></option></select>\";\n\n\t\t\t// Support: IE8, Opera 11-12.16\n\t\t\t// Nothing should be selected when
empty strings follow ^= or $= or *=\n\t\t\t// The test attribute must be unknown in Opera but \"safe\" for
WinRT\n\t\t\t// https://msdn.microsoft.com/en-us/library/ie/hh465388.aspx#attribute_section\n\t\t\tif (
el.querySelectorAll(\"[msallowcapture^='']\").length ) {\n\t\t\t\trbuggyQSA.push( \"[*^$]=\" + whitespace +
\"*(?:''|\\\"\\\")\" );\n\t\t\t}\n\n\t\t\t// Support: IE8\n\t\t\t// Boolean attributes and \"value\" are not treated
correctly\n\t\t\tif ( !el.querySelectorAll(\"[selected]\").length ) {\n\t\t\t\trbuggyQSA.push( \"\\\\[\" + whitespace +
\"*(?:value|\" + booleans + \")\" );\n\t\t\t}\n\n\t\t\t// Support: Chrome<29, Android<4.4, Safari<7.0+, iOS<7.0+,
PhantomJS<1.9.8+\n\t\t\tif ( !el.querySelectorAll( \"[id~=\" + expando + \"-]\" ).length )
{\n\t\t\t\trbuggyQSA.push(\"~=\");\n\t\t\t}\n\n\t\t\t// Webkit/Opera - :checked should return selected option
elements\n\t\t\t// http://www.w3.org/TR/2011/REC-css3-selectors-20110929/#checked\n\t\t\t// IE8 throws error here
and will not see later tests\n\t\t\tif ( !el.querySelectorAll(\":checked\").length )
{\n\t\t\t\trbuggyQSA.push(\":checked\");\n\t\t\t}\n\n\t\t\t// Support: Safari 8+, iOS 8+\n\t\t\t//
https://bugs.webkit.org/show_bug.cgi?id=136851\n\t\t\t// In-page `selector#id sibling-combinator selector`
fails\n\t\t\tif ( !el.querySelectorAll( \"a#\" + expando + \"+*\" ).length )
{\n\t\t\t\trbuggyQSA.push(\".#.+[+~]\");\n\t\t\t}\n\t\t});\n\n\t\tassert(function( el ) {\n\t\t\tel.innerHTML = \"<a

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<p>Followed by "-".</p>

```javascript
// The matching of C against the element's language value is performed case-
// being equal to the identifier C,
// or beginning with the identifier C immediately
> -1;
};
},

// "Whether an element is represented by a :lang() selector
// is based solely on the
});
			return function( elem ) {
				return ( elem.textContent || elem.innerText || getText( elem ) ).indexOf( text )
0;
			};
		}),

"contains": markFunction(function( text ) {
			text = text.replace( runescape, funescape
markFunction(function( selector ) {
			return function( elem ) {
				return Sizzle( selector, elem ).length >

element (issue #299)
					input[0] = null;
					return !results.pop();
				};
		}),

"has":
```
insensitively.\n\t\t// The identifier C does not have to be a valid language name.\"\n\t\t//
http://www.w3.org/TR/selectors/#lang-pseudo\n\t\t\"lang\": markFunction( function( lang ) {\n\t\t\t// lang value
must be a valid identifier\n\t\t\tif ( !ridentifier.test(lang || \"\") ) {\n\t\t\t\tSizzle.error( \"unsupported lang: \" + lang
);\n\t\t\t}\n\t\t\tlang = lang.replace( runescape, funescape ).toLowerCase();\n\t\t\treturn function( elem ) {\n\t\t\t\tvar
elemLang;\n\t\t\t\tdo {\n\t\t\t\t\tif ( (elemLang = documentIsHTML ?\n\t\t\t\t\t\telem.lang
:\n\t\t\t\t\t\telem.getAttribute(\"xml:lang\") || elem.getAttribute(\"lang\")) ) {\n\n\t\t\t\t\t\telemLang =
elemLang.toLowerCase();\n\t\t\t\t\t\treturn elemLang === lang || elemLang.indexOf( lang + \"-\" ) ===
0;\n\t\t\t\t\t}\n\t\t\t\t} while ( (elem = elem.parentNode) && elem.nodeType === 1 );\n\t\t\t\treturn
false;\n\t\t\t};\n\t\t}),\n\n\t\t// Miscellaneous\n\t\t\"target\": function( elem ) {\n\t\t\tvar hash = window.location &&
window.location.hash;\n\t\t\treturn hash && hash.slice( 1 ) === elem.id;\n\t\t},\n\n\t\t\"root\": function( elem )
{\n\t\t\treturn elem === docElem;\n\t\t},\n\n\t\t\"focus\": function( elem ) {\n\t\t\treturn elem ===
document.activeElement && (!document.hasFocus || document.hasFocus()) && !!(elem.type || elem.href ||
~elem.tabIndex);\n\t\t},\n\n\t\t// Boolean properties\n\t\t\"enabled\": createDisabledPseudo( false ),\n\t\t\"disabled\":
createDisabledPseudo( true ),\n\n\t\t\"checked\": function( elem ) {\n\t\t\t// In CSS3, :checked should return both
checked and selected elements\n\t\t\t// http://www.w3.org/TR/2011/REC-css3-selectors20110929/#checked\n\t\t\tvar nodeName = elem.nodeName.toLowerCase();\n\t\t\treturn (nodeName === \"input\"
&& !!elem.checked) || (nodeName === \"option\" && !!elem.selected);\n\t\t},\n\n\t\t\"selected\": function( elem )
{\n\t\t\t// Accessing this property makes selected-by-default\n\t\t\t// options in Safari work properly\n\t\t\tif (
elem.parentNode ) {\n\t\t\t\telem.parentNode.selectedIndex;\n\t\t\t}\n\n\t\t\treturn elem.selected ===
true;\n\t\t},\n\n\t\t// Contents\n\t\t\"empty\": function( elem ) {\n\t\t\t// http://www.w3.org/TR/selectors/#emptypseudo\n\t\t\t// :empty is negated by element (1) or content nodes (text: 3; cdata: 4; entity ref: 5),\n\t\t\t// but not by
others (comment: 8; processing instruction: 7; etc.)\n\t\t\t// nodeType < 6 works because attributes (2) do not appear
as children\n\t\t\tfor ( elem = elem.firstChild; elem; elem = elem.nextSibling ) {\n\t\t\t\tif ( elem.nodeType < 6 )
{\n\t\t\t\t\treturn false;\n\t\t\t\t}\n\t\t\t}\n\t\t\treturn true;\n\t\t},\n\n\t\t\"parent\": function( elem ) {\n\t\t\treturn
!Expr.pseudos[\"empty\"]( elem );\n\t\t},\n\n\t\t// Element/input types\n\t\t\"header\": function( elem ) {\n\t\t\treturn
rheader.test( elem.nodeName );\n\t\t},\n\n\t\t\"input\": function( elem ) {\n\t\t\treturn rinputs.test( elem.nodeName
);\n\t\t},\n\n\t\t\"button\": function( elem ) {\n\t\t\tvar name = elem.nodeName.toLowerCase();\n\t\t\treturn name
=== \"input\" && elem.type === \"button\" || name === \"button\";\n\t\t},\n\n\t\t\"text\": function( elem ) {\n\t\t\tvar
attr;\n\t\t\treturn elem.nodeName.toLowerCase() === \"input\" &&\n\t\t\t\telem.type === \"text\" &&\n\n\t\t\t\t//
Support: IE<8\n\t\t\t\t// New HTML5 attribute values (e.g., \"search\") appear with elem.type === \"text\"\n\t\t\t\t(
(attr = elem.getAttribute(\"type\")) == null || attr.toLowerCase() === \"text\" );\n\t\t},\n\n\t\t// Position-incollection\n\t\t\"first\": createPositionalPseudo(function() {\n\t\t\treturn [ 0 ];\n\t\t}),\n\n\t\t\"last\":
createPositionalPseudo(function( matchIndexes, length ) {\n\t\t\treturn [ length - 1 ];\n\t\t}),\n\n\t\t\"eq\":
createPositionalPseudo(function( matchIndexes, length, argument ) {\n\t\t\treturn [ argument < 0 ? argument +
length : argument ];\n\t\t}),\n\n\t\t\"even\": createPositionalPseudo(function( matchIndexes, length ) {\n\t\t\tvar i =
0;\n\t\t\tfor ( ; i < length; i += 2 ) {\n\t\t\t\tmatchIndexes.push( i );\n\t\t\t}\n\t\t\treturn
matchIndexes;\n\t\t}),\n\n\t\t\"odd\": createPositionalPseudo(function( matchIndexes, length ) {\n\t\t\tvar i =
1;\n\t\t\tfor ( ; i < length; i += 2 ) {\n\t\t\t\tmatchIndexes.push( i );\n\t\t\t}\n\t\t\treturn
matchIndexes;\n\t\t}),\n\n\t\t\"lt\": createPositionalPseudo(function( matchIndexes, length, argument ) {\n\t\t\tvar i =
argument < 0 ? argument + length : argument;\n\t\t\tfor ( ; --i >= 0; ) {\n\t\t\t\tmatchIndexes.push( i
);\n\t\t\t}\n\t\t\treturn matchIndexes;\n\t\t}),\n\n\t\t\"gt\": createPositionalPseudo(function( matchIndexes, length,
argument ) {\n\t\t\tvar i = argument < 0 ? argument + length : argument;\n\t\t\tfor ( ; ++i < length; )
{\n\t\t\t\tmatchIndexes.push( i );\n\t\t\t}\n\t\t\treturn matchIndexes;\n\t\t})\n\t}\n};\n\nExpr.pseudos[\"nth\"] =
Expr.pseudos[\"eq\"];\n\n// Add button/input type pseudos\nfor ( i in { radio: true, checkbox: true, file: true,
password: true, image: true } ) {\n\tExpr.pseudos[ i ] = createInputPseudo( i );\n}\nfor ( i in { submit: true, reset:
true } ) {\n\tExpr.pseudos[ i ] = createButtonPseudo( i );\n}\n\n// Easy API for creating new setFilters\nfunction
setFilters() {}\nsetFilters.prototype = Expr.filters = Expr.pseudos;\nExpr.setFilters = new setFilters();\n\ntokenize =
Sizzle.tokenize = function( selector, parseOnly ) {\n\tvar matched, match, tokens, type,\n\t\tsoFar, groups,

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jQuery.fn.init = function(selector, context, root) {
    var match, elem;

    // HANDLE: $(""), $(null), $(false)
    if (!selector) {
        return this;
    }

    // Method init() accepts an alternate
    rootjQuery = jQuery( document );
    root = root || rootjQuery;

    // A simple way to check for HTML strings
    // Prioritize #id over <tag> to avoid XSS via location.hash (#9521)
    // Strict HTML recognition (#11290: must start with < or > Shortcut simple #id case for speed
    rquickExpr = /^(?:\s*(<([\w\W]+>)[^>]*)|\#([\w\-_]+))$/;
    \n    \n    \n    \n    init.prototype = jQuery.fn;

    // Initialize a jQuery object
    \n    \n    \n};

// A central reference to
var rootjQuery,

// Option to run scripts is true for back-
// compat-implementations Intentionally let the error be thrown if parseHTML is not present

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    \n    \n    \n    \n    init.prototype = jQuery.fn;

    // Initialize a jQuery object
    \n    \n    \n};

// A central reference to
var rootjQuery,
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Only normal processors (resolve) catch and reject exceptions
								process = special
										( special || deferred.resolveWith )( that, args );
									}

										// Process the value(s)
										// Default process is
										if ( handler !== Identity ) {
											that = undefined;
											args = [

										// Only substitute handlers pass on context
										// and multiple values (non-spec
											);
											);
												resolve( maxDepth, deferred, Thrower, special )
											);

										// Support: Promises/A+ sections 2.3.3.3.3
										// https://promisesaplus.com/#point-
										// !newDefer[ tuple[ 0 ] + \"With\"]( fn )
											);

										// Special processors (notify) just wait for resolution
										// Support: Promises/A+ section 2.3.4
										// !newDefer[ tuple[ 1 ] ]( function() {
											);

										// Support: Promises/A+ section 2.3.3.1
										// https://promisesaplus.com/#point-59
										// Ignore double-resolution attempts
										// Support: Promises/A+ section 2.3.1
										// https://promisesaplus.com/#point-48
										// returned !== deferred.promise() ) { throw new TypeError( \"Thenable self-resolution\" );
										// Handle a returned thenable
										// Handle all other returned values
		null, fn );\n
										// Support: Promises/A+ section 2.3.4
										// https://promisesaplus.com/#point-64
										// Only check objects and functions for
										// typeof returned === \"object\" && typeof returned === \"function\"
										// Handle a returned thenable
										// Special processors (notify) just wait for resolution
										// Normal processors (resolve) also hook into progress
										// ...and disregard older resolution

										// action, add listener, callbacks,\n										// then only once\n
										} else {

										// Ignore double-resolution attempts
										// Support: Promises/A+ section 2.3.3.3.3
										// https://promisesaplus.com/#point-
										// Ignor...
this;\n
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This function is used in SMI 2021.01.0-Apr-2022 7163
change
	for ( ; index < length; index++ ) {
		elem = elements[ index ];
		if ( !elem.style )
		index = 0,
		length = elements.length;

	// Determine new display value for elements that need to
display;

	return display;
}

function showHide( elements, show ) {
	var display, elem,
		values =
		doc.createElement( nodeName ) );
	display = jQuery.css( temp, "display" );

	temp.parentNode.removeChild( 
	display = "block";
	}

	temp = doc.body.appendChild( 
	nodeName = elem.nodeName,
	display = tuner to.forEach( function( elem ) {
		currentValue = elem.style[ prop ];
		setter--;
	}

	if ( arguments.length < setter ) {
		return jQuery.queue( this[ 0 ], type );
	
data[ "queueHooks" ] = ( arguments.length < setter ) ? jQuery.extend( 
		params[ 0 ]
		setter--;
	}

	if ( arguments.length < setter ) {
		return jQuery.queue( this[ 0 ], type );
	
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		setter--;
	}

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		return jQuery.queue( this[ 0 ], type );
	
data[ "queueHooks" ] = ( arguments.length < setter ) ? jQuery.extend( 
		params[ 0 ]
		setter--;
	}
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```

var namespace = "";
var tmp = []; handleObjIn;
```

matched.elem;\n\n\t\t\tj = 0;\n\t\t\twhile ( ( handleObj = matched.handlers[ j++ ] )
&&\n\t\t\t\t!event.isImmediatePropagationStopped() ) {\n\n\t\t\t\t// Triggered event must either 1) have no
namespace, or 2) have namespace(s)\n\t\t\t\t// a subset or equal to those in the bound event (both can have no
namespace).\n\t\t\t\tif ( !event.rnamespace || event.rnamespace.test( handleObj.namespace ) )
{\n\n\t\t\t\t\tevent.handleObj = handleObj;\n\t\t\t\t\tevent.data = handleObj.data;\n\n\t\t\t\t\tret = ( (
jQuery.event.special[ handleObj.origType ] || {} ).handle ||\n\t\t\t\t\t\thandleObj.handler ).apply( matched.elem, args
);\n\n\t\t\t\t\tif ( ret !== undefined ) {\n\t\t\t\t\t\tif ( ( event.result = ret ) === false )
{\n\t\t\t\t\t\t\tevent.preventDefault();\n\t\t\t\t\t\t\tevent.stopPropagation();\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\t\t}\
n\n\t\t// Call the postDispatch hook for the mapped type\n\t\tif ( special.postDispatch )
{\n\t\t\tspecial.postDispatch.call( this, event );\n\t\t}\n\n\t\treturn event.result;\n\t},\n\n\thandlers: function( event,
handlers ) {\n\t\tvar i, handleObj, sel, matchedHandlers, matchedSelectors,\n\t\t\thandlerQueue =
[],\n\t\t\tdelegateCount = handlers.delegateCount,\n\t\t\tcur = event.target;\n\n\t\t// Find delegate handlers\n\t\tif (
delegateCount &&\n\n\t\t\t// Support: IE <=9\n\t\t\t// Black-hole SVG <use> instance trees (trac13180)\n\t\t\tcur.nodeType &&\n\n\t\t\t// Support: Firefox <=42\n\t\t\t// Suppress spec-violating clicks indicating a
non-primary pointer button (trac-3861)\n\t\t\t// https://www.w3.org/TR/DOM-Level-3-Events/#event-typeclick\n\t\t\t// Support: IE 11 only\n\t\t\t// ...but not arrow key \"clicks\" of radio inputs, which can have `button` -1
(gh-2343)\n\t\t\t!( event.type === \"click\" && event.button >= 1 ) ) {\n\n\t\t\tfor ( ; cur !== this; cur =
cur.parentNode || this ) {\n\n\t\t\t\t// Don't check non-elements (#13208)\n\t\t\t\t// Don't process clicks on disabled
elements (#6911, #8165, #11382, #11764)\n\t\t\t\tif ( cur.nodeType === 1 && !( event.type === \"click\" &&
cur.disabled === true ) ) {\n\t\t\t\t\tmatchedHandlers = [];\n\t\t\t\t\tmatchedSelectors = {};\n\t\t\t\t\tfor ( i = 0; i <
delegateCount; i++ ) {\n\t\t\t\t\t\thandleObj = handlers[ i ];\n\n\t\t\t\t\t\t// Don't conflict with Object.prototype
properties (#13203)\n\t\t\t\t\t\tsel = handleObj.selector + \" \";\n\n\t\t\t\t\t\tif ( matchedSelectors[ sel ] === undefined
) {\n\t\t\t\t\t\t\tmatchedSelectors[ sel ] = handleObj.needsContext ?\n\t\t\t\t\t\t\t\tjQuery( sel, this ).index( cur ) > -1
:\n\t\t\t\t\t\t\t\tjQuery.find( sel, this, null, [ cur ] ).length;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tif ( matchedSelectors[ sel ] )
{\n\t\t\t\t\t\t\tmatchedHandlers.push( handleObj );\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\tif ( matchedHandlers.length )
{\n\t\t\t\t\t\thandlerQueue.push( { elem: cur, handlers: matchedHandlers } );\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\n\t\t//
Add the remaining (directly-bound) handlers\n\t\tcur = this;\n\t\tif ( delegateCount < handlers.length )
{\n\t\t\thandlerQueue.push( { elem: cur, handlers: handlers.slice( delegateCount ) } );\n\t\t}\n\n\t\treturn
handlerQueue;\n\t},\n\n\taddProp: function( name, hook ) {\n\t\tObject.defineProperty( jQuery.Event.prototype,
name, {\n\t\t\tenumerable: true,\n\t\t\tconfigurable: true,\n\n\t\t\tget: isFunction( hook ) ?\n\t\t\t\tfunction()
{\n\t\t\t\t\tif ( this.originalEvent ) {\n\t\t\t\t\t\t\treturn hook( this.originalEvent );\n\t\t\t\t\t}\n\t\t\t\t}
:\n\t\t\t\tfunction() {\n\t\t\t\t\tif ( this.originalEvent ) {\n\t\t\t\t\t\t\treturn this.originalEvent[ name
];\n\t\t\t\t\t}\n\t\t\t\t},\n\n\t\t\tset: function( value ) {\n\t\t\t\tObject.defineProperty( this, name, {\n\t\t\t\t\tenumerable:
true,\n\t\t\t\t\tconfigurable: true,\n\t\t\t\t\twritable: true,\n\t\t\t\t\tvalue: value\n\t\t\t\t} );\n\t\t\t}\n\t\t} );\n\t},\n\n\tfix:
function( originalEvent ) {\n\t\treturn originalEvent[ jQuery.expando ] ?\n\t\t\toriginalEvent :\n\t\t\tnew
jQuery.Event( originalEvent );\n\t},\n\n\tspecial: {\n\t\tload: {\n\n\t\t\t// Prevent triggered image.load events from
bubbling to window.load\n\t\t\tnoBubble: true\n\t\t},\n\t\tfocus: {\n\n\t\t\t// Fire native event if possible so blur/focus
sequence is correct\n\t\t\ttrigger: function() {\n\t\t\t\tif ( this !== safeActiveElement() && this.focus )
{\n\t\t\t\t\tthis.focus();\n\t\t\t\t\treturn false;\n\t\t\t\t}\n\t\t\t},\n\t\t\tdelegateType: \"focusin\"\n\t\t},\n\t\tblur:
{\n\t\t\ttrigger: function() {\n\t\t\t\tif ( this === safeActiveElement() && this.blur )
{\n\t\t\t\t\tthis.blur();\n\t\t\t\t\treturn false;\n\t\t\t\t}\n\t\t\t},\n\t\t\tdelegateType: \"focusout\"\n\t\t},\n\t\tclick:
{\n\n\t\t\t// For checkbox, fire native event so checked state will be right\n\t\t\ttrigger: function() {\n\t\t\t\tif (
this.type === \"checkbox\" && this.click && nodeName( this, \"input\" ) ) {\n\t\t\t\t\tthis.click();\n\t\t\t\t\treturn
false;\n\t\t\t\t}\n\t\t\t},\n\n\t\t\t// For cross-browser consistency, don't fire native .click() on links\n\t\t\t_default:
function( event ) {\n\t\t\t\treturn nodeName( event.target, \"a\" );\n\t\t\t}\n\t\t},\n\n\t\tbeforeunload:
{\n\t\t\tpostDispatch: function( event ) {\n\n\t\t\t\t// Support: Firefox 20+\n\t\t\t\t// Firefox doesn't alert if the
returnValue field is not set.\n\t\t\t\tif ( event.result !== undefined && event.originalEvent )
{\n\t\t\t\t\tevent.originalEvent.returnValue = event.result;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t}\n};\n\njQuery.removeEvent =

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```javascript
function( elem, type, handle ) {

  // This "if" is needed for plain objects
  if ( elem.removeEventListener ) {
    elem.removeEventListener( type, handle );
  }
};

jQuery.Event = function( src, props ) {

  // Allow instantiation without the 'new' keyword
  if ( !( this instanceof jQuery.Event ) ) {
    return new jQuery.Event( src, props );
  }

  // Event object
  if ( src && src.type ) {
    this.originalEvent = src;
    this.type = src.type;
  } else {
    this.type = src;
  }

  // Put explicitly provided properties onto the event object
  if ( props ) {
    jQuery.extend( this, props );
  }

  // Create a timestamp if incoming event doesn't have one
  this.timeStamp = src && src.timeStamp || Date.now();

  // Mark it as fixed
  this[ jQuery.expando ] = true;
};

// jQuery.Event is based on DOM3 Events as specified by the ECMAScript Language Binding
// https://www.w3.org/TR/2003/WD-DOM-Level-3-Events-20030331/ecma-script-binding.html
jQuery.Event.prototype = {

  constructor: jQuery.Event,

  isDefaultPrevented: function() {
    return this.defaultPrevented === undefined ? false : this.defaultPrevented;
  },

  isPropagationStopped: function() {
    return this.isImmediatePropagationStopped ? true : this.stopPropagation();
  },

  isImmediatePropagationStopped: function() {
    return this.isPropagationStopped ? true : false;
  },

  preventDefault: function() {
    var e = this.originalEvent;

    this.defaultPrevented = true;

    if ( e && !this.isSimulated ) {
      e.preventDefault();
    }
  },

  stopPropagation: function() {
    var e = this.originalEvent;

    this.stopPropagation = true;

    if ( e && !this.isSimulated ) {
      e.stopPropagation();
    }
  },

  stopImmediatePropagation: function() {
    var e = this.originalEvent;

    this.stopPropagation = true;

    if ( e && !this.isSimulated ) {
      e.stopImmediatePropagation();
    }

    this.stopPropagation();
  },

  // Includes all common event props including KeyEvent and MouseEvent specific props
  jQuery.each( {
    altKey: true,
    bubbles: true,
    cancelable: true,
    changedTouches: true,
    char: true,
    charCode: true,
    ctrlKey: true,
    currentTarget: true,
    defaultPrevented: returnFalse,
    defaultSelector: true,
    defaultTarget: true,
    delegateTarget: true,
    detail: true,
    eventPhase: true,
    offsetX: true,
    offsetY: true,
    pointerId: true,
    pointerType: true,
    relatedTarget: true,
    screenX: true,
    screenY: true,
    shiftKey: true,
    stopImmediatePropagation: function() {
      var e = this.originalEvent;

      this.isImmediatePropagationStopped = returnTrue;
      this.stopPropagation = false;
      this.preventDefault();
    },

    targetTouches: true,
    toElement: true,
    touch: true,
    touchStart: true,
    touchEnd: true,
    touchMove: true,
    touchCancel: true,
    touchId: true,
    touchPhase: true,
    view: true,
    which: function( event ) {
      var button = event.button;

      // Add which for key events
      if ( event.which == null && rkeyEvent.test( event.type ) ) {
        return event.charCode != null ? event.charCode : event.keyCode;
      }

      // Add which for click: 1 === left; 2 === middle; 3 === right
      if ( !event.which && button !== undefined && rmouseEvent.test( event.type ) ) {
        return button + 1;
      }

      return button + 2;
    },

    which: function( event ) {
      // Add which for mouse events
      return which( event, this, true );
    },

    // Create mouseenter/leave events using mouseover/out and event-time checks
    onmouseenter: true,
    onmouseleave: true,

    // Support: Safari 7 only
    // Safari sends mouseenter too often; see:
    // https://bugs.chromium.org/p/chromium/issues/detail?id=470258
    for the description of the bug (it existed in older Chrome versions as well).
    onmouseenter: function( event ) {
      // Add which for mouse events
      return which( event, this, true );
    },

    // Do the same for pointermove/pointerout
    onpointermove: true,
    onpointerout: true,

    // Create mousemove events using mousemove/out and event-time checks
    onmousemove: true,
    onmouseout: true,

    // Support: Safari 7 only
    // Safari sends mousemove too often; see:
    // https://bugs.chromium.org/p/chromium/issues/detail?id=470258
    for the description of the bug (it existed in older Chrome versions as well).
    onmousemove: function( event ) {
      // Add which for mouse events
      return which( event, this, true );
    },
  }, jQuery.event.addProp);
function( types, selector, fn ) {
    var handleObj, type, types, selectorHandle, addEventLoop, handleObj

    if ( types && types.preventDefault && types.handleObj ) {
        handleObj = types.handleObj,
        selector = selector || this;
        selectorHandle = [selector];
        addEventLoop = true;
    } else if ( typeof types === "object" ) {
        for ( type in types ) {
            this[ type ] = types[ type ];
        }
    }

    selector = selector || 

    // @this@ is left as a global if selector is not defined
    handleObj = jQuery.event.special[ selector ] || {
        setup: function() {
            if ( hasScripts[ selector ] ) {
                return false;
            }
            // browser-dom: add special hack to new Element以免 DOM element is not ready
            if ( hasDirectCheck && selector[ 0 ] && ( ( selector[ selector[0].tag ] = true ) || selector[ 0 ].type === "html" ) ) {
                return false;
            }
            // use check function if checks are available
            if ( usePrivData && usePrivData[ selector ] &&
                usePrivData[ selector ][ event ] ) {
                return usePrivData[ selector ][ event ];
            }
            return jQuery.event.add( this, event, types[ selector ] || function() {
                this[ selector ] = true;
            } );
        },
        reset: function() {
            if ( usePrivData && usePrivData[ selector ] &&
                usePrivData[ selector ][ event ] ) {
                return usePrivData[ selector ][ event ];
            }
            return this[ selector ] = false;
        },
        remove: function() {
            if ( usePrivData && usePrivData[ selector ] &&
                usePrivData[ selector ][ event ] ) {
                return usePrivData[ selector ][ event ];
            }
            return this[ selector ] = undefined;
        },
        // needs special html5 hack for onPatchNode
        default: false
    };

    if ( addEventLoop ) {
        this.addEventListener( selector, handleObj.handler, true );
    } else if ( handleObj ) {
        handleObj.selector = selector;

        if ( handleObj.selector ) {
            handleObj.selector[ 0 ] = selector;
        }
        handleObj.selector[ 0 ] = selector;
        handleObj.origType = type;
        handleObj.handler = fn;
        handleObj.handler[ 0 ] = fn;
    }
}

// see: https://github.com/eslint/eslint/issues/3229

// Use: IE <=10 - 11, Edge 12 - 13 only

// Must use a regex here to avoid performance hits:

try {
    // Prefer a tbody over its parent table for containing new
    // rows/transforms
    if ( nodeName( elem, "table" ) &&
        nodeName( content.nodeType !== 11 ? content : content.firstChild, "tr" ) ) {
        return jQuery( elem ).children( "tbody" )
            .first() || elem;
    }
}

// Replace/restore the type attribute of script elements for safe DOM
function disableScript( elem ) {
    elem.type = ( elem.getAttribute( "type" ) !== null ) + "/" + elem.type;
    return elem;
}
function restoreScript( elem ) {
    if ( ( elem.type || "" ).slice( 0, 5 ) === "true/" ) {
        elem.type = elem.type.slice( 5 );
    } else {
        elem.removeAttribute( "type" );
    }
    return elem;
}

// Fix IE bugs, see support tests
function fixInput( src, dest ) {
    var nodeName = dest.nodeName.toLowerCase();
    // Fails to persist the checked state of a cloned checkbox or radio button.
    if ( nodeName === "input" && rcheckableType.test( src.type ) ) {
        dest.checked = src.checked;
    }
    // Fails to return the selected option to the default selected state when cloning options
    if ( nodeName === "input" || nodeName === "textarea" ) {
        dest.defaultValue = src.defaultValue;
    }
}

// Fails to persist the checked state of a cloned checkbox or radio button.
function domManip( collection, args, callback, ignored ) {
    var fragment, first, scripts, hasScripts, node, doc,
        i = 0, l = collection.length,
        iNoClone = l - 1, value = args[ 0 ], valueIsFunction = isFunction( value );

    if ( valueIsFunction ||
        l > 1 && typeof value === "string" &&
        !support.checkClone &&
        rchecked.test( value ) ) {
        return collection.each( function( index ) {
            var self = collection.eq( index );
            if ( valueIsFunction ) {
                args[ 0 ] = value.call( this, index, self.html() );
            }
            domManip( self, args, callback, ignored );
            value[ numberIsFunction ] = value.call( this, index, self.html() );
            value[ numberIsFunction ] = domManip( self, args, callback, ignored );
            domManip( self, args, callback, ignored );
        } );
    }

    if ( first || ignored ) {
        scripts = jQuery.map( getAll( fragment, "script" ), disableScript );
        hasScripts = scripts.length;

        // Use the original fragment for the last item in case of an empty collection
        if ( hasScripts ) {
            scripts[ scripts.length - 1 ].remove();
        }

        return callback.apply( fragment, arguments );
    } else if ( callback ) {
        callback( fragment );
    } else {
        return fragment; // Or return its copy
    }

    // Get a first element in case of an empty collection
    if ( iNoClone ) {
        node = fragment.firstChild;

        if ( fragment.childNodes.length === 1 ) {
            fragment = node;
        }
    }

    // Append the collection inside an empty iframe back into an empty document
    doc = jQuery( "\<html\>\<body\>\</body\>\</html\>"[0] );
    doc.createElement("iframe");
    doc.documentElement.appendChild( fragment );

    // Check if the DOM object has a deleteChild method or if the DOM
    // engine is older than IE7.
    if ( doc.body.removeChild ) {
        doc.body.removeChild( doc.documentElement );
    } else {
        jQuery( "\<iframe\>\</iframe\>"[0] ).innerHTML = "";
        doc.documentElement.removeChild( doc.documentElement );
    }

    // Clear up the DOM objects as much as we can do, otherwise
    // there'd be problems adding new content. We must take
    // especially care of the previous老大内容
    doc =athering[0] = node;
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elem) {
  if (this.parentNode) {
    this.parentNode.insertBefore(elem, this);
  }
}

this.insertBefore(elem);
isBorderBox, styles, computedVal ) {\n\tvar i = dimension === \"width\" ? 1 : 0,\n\t\textra = 0,\n\t\tdelta = 0;\n\n\t//
Adjustment may not be necessary\n\tif ( box === ( isBorderBox ? \"border\" : \"content\" ) ) {\n\t\treturn
0;\n\t}\n\n\tfor ( ; i < 4; i += 2 ) {\n\n\t\t// Both box models exclude margin\n\t\tif ( box === \"margin\" )
{\n\t\t\tdelta += jQuery.css( elem, box + cssExpand[ i ], true, styles );\n\t\t}\n\n\t\t// If we get here with a contentbox, we're seeking \"padding\" or \"border\" or \"margin\"\n\t\tif ( !isBorderBox ) {\n\n\t\t\t// Add
padding\n\t\t\tdelta += jQuery.css( elem, \"padding\" + cssExpand[ i ], true, styles );\n\n\t\t\t// For \"border\" or
\"margin\", add border\n\t\t\tif ( box !== \"padding\" ) {\n\t\t\t\tdelta += jQuery.css( elem, \"border\" + cssExpand[ i
] + \"Width\", true, styles );\n\n\t\t\t// But still keep track of it otherwise\n\t\t\t} else {\n\t\t\t\textra += jQuery.css(
elem, \"border\" + cssExpand[ i ] + \"Width\", true, styles );\n\t\t\t}\n\n\t\t// If we get here with a border-box (content
+ padding + border), we're seeking \"content\" or\n\t\t// \"padding\" or \"margin\"\n\t\t} else {\n\n\t\t\t// For
\"content\", subtract padding\n\t\t\tif ( box === \"content\" ) {\n\t\t\t\tdelta -= jQuery.css( elem, \"padding\" +
cssExpand[ i ], true, styles );\n\t\t\t}\n\n\t\t\t// For \"content\" or \"padding\", subtract border\n\t\t\tif ( box !==
\"margin\" ) {\n\t\t\t\tdelta -= jQuery.css( elem, \"border\" + cssExpand[ i ] + \"Width\", true, styles
);\n\t\t\t}\n\t\t}\n\t}\n\n\t// Account for positive content-box scroll gutter when requested by providing
computedVal\n\tif ( !isBorderBox && computedVal >= 0 ) {\n\n\t\t// offsetWidth/offsetHeight is a rounded sum of
content, padding, scroll gutter, and border\n\t\t// Assuming integer scroll gutter, subtract the rest and round
down\n\t\tdelta += Math.max( 0, Math.ceil(\n\t\t\telem[ \"offset\" + dimension[ 0 ].toUpperCase() + dimension.slice(
1 ) ] -\n\t\t\tcomputedVal -\n\t\t\tdelta -\n\t\t\textra -\n\t\t\t0.5\n\t\t) );\n\t}\n\n\treturn delta;\n}\n\nfunction
getWidthOrHeight( elem, dimension, extra ) {\n\n\t// Start with computed style\n\tvar styles = getStyles( elem
),\n\t\tval = curCSS( elem, dimension, styles ),\n\t\tisBorderBox = jQuery.css( elem, \"boxSizing\", false, styles )
=== \"border-box\",\n\t\tvalueIsBorderBox = isBorderBox;\n\n\t// Support: Firefox <=54\n\t// Return a confounding
non-pixel value or feign ignorance, as appropriate.\n\tif ( rnumnonpx.test( val ) ) {\n\t\tif ( !extra ) {\n\t\t\treturn
val;\n\t\t}\n\t\tval = \"auto\";\n\t}\n\n\t// Check for style in case a browser which returns unreliable values\n\t// for
getComputedStyle silently falls back to the reliable elem.style\n\tvalueIsBorderBox = valueIsBorderBox &&\n\t\t(
support.boxSizingReliable() || val === elem.style[ dimension ] );\n\n\t// Fall back to offsetWidth/offsetHeight when
value is \"auto\"\n\t// This happens for inline elements with no explicit setting (gh-3571)\n\t// Support: Android
<=4.1 - 4.3 only\n\t// Also use offsetWidth/offsetHeight for misreported inline dimensions (gh-3602)\n\tif ( val ===
\"auto\" ||\n\t\t!parseFloat( val ) && jQuery.css( elem, \"display\", false, styles ) === \"inline\" ) {\n\n\t\tval = elem[
\"offset\" + dimension[ 0 ].toUpperCase() + dimension.slice( 1 ) ];\n\n\t\t// offsetWidth/offsetHeight provide borderbox values\n\t\tvalueIsBorderBox = true;\n\t}\n\n\t// Normalize \"\" and auto\n\tval = parseFloat( val ) || 0;\n\n\t//
Adjust for the element's box model\n\treturn ( val
+\n\t\tboxModelAdjustment(\n\t\t\telem,\n\t\t\tdimension,\n\t\t\textra || ( isBorderBox ? \"border\" : \"content\"
),\n\t\t\tvalueIsBorderBox,\n\t\t\tstyles,\n\n\t\t\t// Provide the current computed size to request scroll gutter
calculation (gh-3589)\n\t\t\tval\n\t\t)\n\t) + \"px\";\n}\n\njQuery.extend( {\n\n\t// Add in style property hooks for
overriding the default\n\t// behavior of getting and setting a style property\n\tcssHooks: {\n\t\topacity: {\n\t\t\tget:
function( elem, computed ) {\n\t\t\t\tif ( computed ) {\n\n\t\t\t\t\t// We should always get a number back from
opacity\n\t\t\t\t\tvar ret = curCSS( elem, \"opacity\" );\n\t\t\t\t\treturn ret === \"\" ? \"1\" :
ret;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t},\n\n\t// Don't automatically add \"px\" to these possibly-unitless
properties\n\tcssNumber: {\n\t\t\"animationIterationCount\": true,\n\t\t\"columnCount\": true,\n\t\t\"fillOpacity\":
true,\n\t\t\"flexGrow\": true,\n\t\t\"flexShrink\": true,\n\t\t\"fontWeight\": true,\n\t\t\"lineHeight\":
true,\n\t\t\"opacity\": true,\n\t\t\"order\": true,\n\t\t\"orphans\": true,\n\t\t\"widows\": true,\n\t\t\"zIndex\":
true,\n\t\t\"zoom\": true\n\t},\n\n\t// Add in properties whose names you wish to fix before\n\t// setting or getting the
value\n\tcssProps: {},\n\n\t// Get and set the style property on a DOM Node\n\tstyle: function( elem, name, value,
extra ) {\n\n\t\t// Don't set styles on text and comment nodes\n\t\tif ( !elem || elem.nodeType === 3 || elem.nodeType
=== 8 || !elem.style ) {\n\t\t\treturn;\n\t\t}\n\n\t\t// Make sure that we're working with the right name\n\t\tvar ret,
type, hooks,\n\t\t\torigName = camelCase( name ),\n\t\t\tisCustomProp = rcustomProp.test( name ),\n\t\t\tstyle =
elem.style;\n\n\t\t// Make sure that we're working with the right name. We don't\n\t\t// want to query the value if it is
a CSS custom property\n\t\t// since they are user-defined.\n\t\tif ( !isCustomProp ) {\n\t\t\tname = finalPropName(

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Gets hook for the prefixed version, then unprefixed version:

- If we're setting a value:
  - Convert value to relative numbers (#7345)
  - Make sure that null and NaN values aren't set

- If a hook was provided, use that value, otherwise just set the specified value
  - (hooks)!
  - (!set in hooks)!
  - (!set in hooks)
  - (!set in hooks)

- If a hook was provided get the non-computed value from there
  - (hooks & get in hooks)

- Try prefixed name followed by the unprefixed name:

- If a hook was provided get the computed value from there
  - (hooks & get in hooks)

- Otherwise, if we can get the computed value exists, use that

- Convert to pixels if value adjustment is needed

- Account for unreliable border-box dimensions by comparing offset* to computed and faking a content-box:

- Convert to pixels if value adjustment is needed

- Account for unreliable border-box dimensions by comparing offset* to computed
elem, \"marginLeft\" ) ) ||\n\t\t\t\telem.getBoundingClientRect().left -\n\t\t\t\t\tswap( elem, { marginLeft: 0 },
function() {\n\t\t\t\t\t\treturn elem.getBoundingClientRect().left;\n\t\t\t\t\t} )\n\t\t\t\t) + \"px\";\n\t\t}\n\t}\n);\n\n//
These hooks are used by animate to expand properties\njQuery.each( {\n\tmargin: \"\",\n\tpadding: \"\",\n\tborder:
\"Width\"\n}, function( prefix, suffix ) {\n\tjQuery.cssHooks[ prefix + suffix ] = {\n\t\texpand: function( value )
{\n\t\t\tvar i = 0,\n\t\t\t\texpanded = {},\n\n\t\t\t\t// Assumes a single number if not a string\n\t\t\t\tparts = typeof
value === \"string\" ? value.split( \" \" ) : [ value ];\n\n\t\t\tfor ( ; i < 4; i++ ) {\n\t\t\t\texpanded[ prefix + cssExpand[
i ] + suffix ] =\n\t\t\t\t\tparts[ i ] || parts[ i - 2 ] || parts[ 0 ];\n\t\t\t}\n\n\t\t\treturn expanded;\n\t\t}\n\t};\n\n\tif ( prefix
!== \"margin\" ) {\n\t\tjQuery.cssHooks[ prefix + suffix ].set = setPositiveNumber;\n\t}\n} );\n\njQuery.fn.extend(
{\n\tcss: function( name, value ) {\n\t\treturn access( this, function( elem, name, value ) {\n\t\t\tvar styles,
len,\n\t\t\t\tmap = {},\n\t\t\t\ti = 0;\n\n\t\t\tif ( Array.isArray( name ) ) {\n\t\t\t\tstyles = getStyles( elem );\n\t\t\t\tlen
= name.length;\n\n\t\t\t\tfor ( ; i < len; i++ ) {\n\t\t\t\t\tmap[ name[ i ] ] = jQuery.css( elem, name[ i ], false, styles
);\n\t\t\t\t}\n\n\t\t\t\treturn map;\n\t\t\t}\n\n\t\t\treturn value !== undefined ?\n\t\t\t\tjQuery.style( elem, name, value )
:\n\t\t\t\tjQuery.css( elem, name );\n\t\t}, name, value, arguments.length > 1 );\n\t}\n} );\n\n\nfunction Tween( elem,
options, prop, end, easing ) {\n\treturn new Tween.prototype.init( elem, options, prop, end, easing
);\n}\njQuery.Tween = Tween;\n\nTween.prototype = {\n\tconstructor: Tween,\n\tinit: function( elem, options, prop,
end, easing, unit ) {\n\t\tthis.elem = elem;\n\t\tthis.prop = prop;\n\t\tthis.easing = easing ||
jQuery.easing._default;\n\t\tthis.options = options;\n\t\tthis.start = this.now = this.cur();\n\t\tthis.end =
end;\n\t\tthis.unit = unit || ( jQuery.cssNumber[ prop ] ? \"\" : \"px\" );\n\t},\n\tcur: function() {\n\t\tvar hooks =
Tween.propHooks[ this.prop ];\n\n\t\treturn hooks && hooks.get ?\n\t\t\thooks.get( this )
:\n\t\t\tTween.propHooks._default.get( this );\n\t},\n\trun: function( percent ) {\n\t\tvar eased,\n\t\t\thooks =
Tween.propHooks[ this.prop ];\n\n\t\tif ( this.options.duration ) {\n\t\t\tthis.pos = eased = jQuery.easing[ this.easing
](\n\t\t\t\tpercent, this.options.duration * percent, 0, 1, this.options.duration\n\t\t\t);\n\t\t} else {\n\t\t\tthis.pos = eased
= percent;\n\t\t}\n\t\tthis.now = ( this.end - this.start ) * eased + this.start;\n\n\t\tif ( this.options.step )
{\n\t\t\tthis.options.step.call( this.elem, this.now, this );\n\t\t}\n\n\t\tif ( hooks && hooks.set ) {\n\t\t\thooks.set( this
);\n\t\t} else {\n\t\t\tTween.propHooks._default.set( this );\n\t\t}\n\t\treturn
this;\n\t}\n};\n\nTween.prototype.init.prototype = Tween.prototype;\n\nTween.propHooks = {\n\t_default: {\n\t\tget:
function( tween ) {\n\t\t\tvar result;\n\n\t\t\t// Use a property on the element directly when it is not a DOM
element,\n\t\t\t// or when there is no matching style property that exists.\n\t\t\tif ( tween.elem.nodeType !== 1
||\n\t\t\t\ttween.elem[ tween.prop ] != null && tween.elem.style[ tween.prop ] == null ) {\n\t\t\t\treturn tween.elem[
tween.prop ];\n\t\t\t}\n\n\t\t\t// Passing an empty string as a 3rd parameter to .css will automatically\n\t\t\t// attempt a
parseFloat and fallback to a string if the parse fails.\n\t\t\t// Simple values such as \"10px\" are parsed to
Float;\n\t\t\t// complex values such as \"rotate(1rad)\" are returned as-is.\n\t\t\tresult = jQuery.css( tween.elem,
tween.prop, \"\" );\n\n\t\t\t// Empty strings, null, undefined and \"auto\" are converted to 0.\n\t\t\treturn !result ||
result === \"auto\" ? 0 : result;\n\t\t},\n\t\tset: function( tween ) {\n\n\t\t\t// Use step hook for back compat.\n\t\t\t//
Use cssHook if its there.\n\t\t\t// Use .style if available and use plain properties where available.\n\t\t\tif (
jQuery.fx.step[ tween.prop ] ) {\n\t\t\t\tjQuery.fx.step[ tween.prop ]( tween );\n\t\t\t} else if ( tween.elem.nodeType
=== 1 &&\n\t\t\t\t( tween.elem.style[ jQuery.cssProps[ tween.prop ] ] != null ||\n\t\t\t\t\tjQuery.cssHooks[
tween.prop ] ) ) {\n\t\t\t\tjQuery.style( tween.elem, tween.prop, tween.now + tween.unit );\n\t\t\t} else
{\n\t\t\t\ttween.elem[ tween.prop ] = tween.now;\n\t\t\t}\n\t\t}\n\t}\n};\n\n// Support: IE <=9 only\n// Panic based
approach to setting things on disconnected nodes\nTween.propHooks.scrollTop = Tween.propHooks.scrollLeft =
{\n\tset: function( tween ) {\n\t\tif ( tween.elem.nodeType && tween.elem.parentNode ) {\n\t\t\ttween.elem[
tween.prop ] = tween.now;\n\t\t}\n\t}\n};\n\njQuery.easing = {\n\tlinear: function( p ) {\n\t\treturn p;\n\t},\n\tswing:
function( p ) {\n\t\treturn 0.5 - Math.cos( p * Math.PI ) / 2;\n\t},\n\t_default: \"swing\"\n};\n\njQuery.fx =
Tween.prototype.init;\n\n// Back compat <1.8 extension point\njQuery.fx.step = {};\n\n\n\n\nvar\n\tfxNow,
inProgress,\n\trfxtypes = /^(?:toggle|show|hide)$/,\n\trrun = /queueHooks$/;\n\nfunction schedule() {\n\tif (
inProgress ) {\n\t\tif ( document.hidden === false && window.requestAnimationFrame )
{\n\t\t\twindow.requestAnimationFrame( schedule );\n\t\t} else {\n\t\t\twindow.setTimeout( schedule,
jQuery.fx.interval );\n\t\t}\n\n\t\tjQuery.fx.tick();\n\t}\n}\n\n// Animations created synchronously will run

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In the toggle function, the following line is called:

```javascript
if ( dataShow ) {
    if ( "hidden" in dataShow ) {
        hidden = dataShow.hidden;
    }
}
```

This line is responsible for retrieving the `hidden` property from the `dataShow` object. If `hidden` is present in `dataShow`, it assigns the value of `hidden` to the `hidden` variable.

The `dataShow` object is accessed using the `dataPriv.access` method, which is defined earlier in the code:

```javascript
dataPriv.access( elem, "fxshow", { display: restoreDisplay } );
```

This line accesses the `fxshow` property of the `dataPriv` object for the given `elem`, with `restoreDisplay` as the value for the `display` property.

The `display` property is later used to set the `display` style of the element, as shown in the following lines:

```javascript
style.display = props[ prop ] || jQuery.style( elem, prop );
```

This line sets the `display` style property of the element to the value of the `props` object, which contains the `display` property for the given `prop`. This allows for the manipulation of the element's display style, which is crucial for animating elements in a webpage.
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Look for any animations in the old queue and finish them:

```
for ( index = 0; index < length; index++ ) {
  if ( queue[ index ] && queue[ index ].finish ) {
    queue[ index ].finish.call( this );
  }
}
```

- Generate shortcuts for custom animations:

```
jQuery.each( [ "toggle", "show", "hide" ], function( i, name ) {
  jQuery.fn[ name ] = function( speed, easing, callback ) {
    return speed == null || typeof speed === "boolean" ?
    this.animate( genFx( name, true ), speed, easing, callback ) :
    this.animate( genFx( name, false ), speed, easing, callback );
  };
});
```

- Support for checkbox and radio inputs:

```
jQuery.fn.extend( {
  attr: function( name, value ) {
    return access( this, jQuery.attr, name, value, arguments.length > 1 );
  },
  removeAttr: function( name ) {
    return this.each( function() {
      this.removeAttribute( name );
    } );
  }
} );
```

- Define default values for a checkbox handler:

```
jQuery.expr.replaceHandle = jQuery.fn.extend( {
  attr: function( name, value ) {
    this.getAttribute( name ) != null ?
    this.setAttribute( name, value ) :
    this.removeAttribute( name );
  },
  set: function( name, value, attr ) {
    // If the attribute exists,
    // assign it
    if ( attr ) {
      this.setAttribute( name, value );
    } else if ( this.getAttribute( name ) == null ) {
      this.removeAttribute( name );
    }
  }
} );
```

- Define default attributes for input elements:

```
jQuery.fn.extend( {
  input: function( attr ) {
    this.attr( attr );
  },
  val: function( value ) {
    if ( this.nodeType == 3 ) {
      return value;
    } else {
      this[ this.nodeName.toLowerCase() ] = value;
    }
  },
  prop: function( name, value ) {
    if ( this.nodeType == 3 ) {
      return value;
    } else {
      this[ this.getAttribute( "id" ) + "prop" ] = value;
    }
  }
} );
```
https://html.spec.whatwg.org/multipage/syntax.html#attributes-2

```
attrNames = value && value.match(rnothtmlwhite); 

if ( attrNames && elem.nodeType === 1 ) {
    for ( var i = 0; ( name = attrNames[ i++ ] ) ) {
        // Hooks for boolean attributes
        if ( "on" in name ) {
            jQuery.removeAttr( elem, name );
        } else {
            elem.removeAttribute( name, name );
        }
    }
}
```

```
// Hooks for boolean attributes
boolHook = {
    set: function( elem, value, name ) {
        if ( value === false ) {
            jQuery.removeAttr( elem, name );
        } else {
            elem.setAttribute( name, name );
        }
    }
};
```

```
jQuery.each( jQuery.expr.match.bool.source.match( /\w+/g ), function( i, name ) {
    var getter = attrHandle[ name ] || jQuery.find.attr;

    attrHandle[ name ] = function( elem, name, isXML ) {
        var ret,
            lowerCaseName = name.toLowerCase();

        if ( !isXML ) {
            // Avoid an infinite loop by temporarily removing this function from the getter/handle
            var handle = attrHandle[ lowerCaseName ];
            attrHandle[ lowerCaseName ] = ret;
            elem.removeAttribute( name );
            attrHandle[ lowerCaseName ] = handle;
            ret = getter( elem, name, isXML ) != null ? lowerCaseName : null;
            attrHandle[ lowerCaseName ] = handle;
        }
        return ret;
    };
} );
```

```
var rfocusable = /^\w\w$/i,
rclickable = ^(a|area)$;

jQuery.fn.extend( {
    prop: function( name, value ) {
        return access( this, jQuery.prop, name, value, arguments.length > 1 );
    },

    removeProp: function( name ) {
        return this.each( function() {
            delete this[ jQuery.propFix[ name ] || name ];
        } );
    }
} );
```

```
jQuery.extend( {
    prop: function( elem, name, value ) {
        var ret, hooks,
            nType = elem.nodeType;

        // Don't get/set properties on text, comment and attribute nodes
        if ( nType === 3 || nType === 8 || nType === 2 ) {
            return;
        }

        if ( nType !== 1 || !jQuery.isXMLDoc( elem ) ) {
            // Fix name and attach hooks
            name = jQuery.propFix[ name ] || name;
            hooks = jQuery.propHooks[ name ];

            if ( value !== undefined ) {
                if ( hooks && "set" in hooks && ( ret = hooks.set( elem, value, name ) ) !== undefined ) {
                    return ret;
                }

                return ( elem[ name ] = value );
            }

            if ( hooks && "get" in hooks ) {
                return ( ret = hooks.get( elem, name ) ) !== null ? lowerCaseName : null;
            }

            return elem[ name ];
        }
    },

    propHooks: {
        tabIndex: {
            get: function( elem ) {
                if ( elem.tabIndex ) {
                    return parseInt( elem.tabIndex, 10 );
                }

                if ( rfocusable.test( elem.nodeName ) || rclickable.test( elem.nodeName ) ) {
                    return 0;
                }

                return -1;
            }
        }
    },

    propFix: {
        "for": "htmlFor",
        "class": "className"
    }
} );
```

```
// Support: IE <=11 only
// Accessing the selectedIndex property
// forces the browser to respect setting selected
// on the option
// eslint rule "no-unused-expressions" is disabled for this
// code since it considers such accessions noop
if ( !support.optSelected ) {
    jQuery.propHooks.selected = {
        get: function( elem ) {
            /* eslint no-unused-expressions: "off" */
            var parent = elem.parentNode;
            if ( parent && parent.parentNode ) {
                parent.parentNode.selectedIndex;
            }
            return null;
        },
        set: function( elem ) {
            /* eslint no-unused-expressions: "off" */
            var parent = elem.parentNode;
            if ( parent ) {
                parent.selectedIndex;
                if ( parent.parentNode ) {
                    parent.parentNode.selectedIndex;
                }
            }
        }
    }
}
```

```
jQuery.each( [
    "tabIndex",
    "readOnly",
    "maxLength",
    "cellSpacing",
    "cellPadding",
    "rowSpan",
    "colSpan",
    "useMap",
    "frameBorder",
    "contentEditable"
], function() {
    jQuery.propFix[ this.toLowerCase() ] = this;
} );
```

```
https://html.spec.whatwg.org/multipage/syntax.html#strip-and-collapse-ascii-whitespace

function stripAndCollapse( value ) {
    var tokens = value.match(rnothtmlwhite) || [];
    return tokens.join( " ");
}
```

```
function getClass( elem ) {
    return elem.getAttribute && elem.getAttribute( "class" ) || "";
}
```

```
function classesToArray( value ) {
    if ( Array.isArray( value ) ) {
        return value;
    }
    if ( typeof value === "string" ) {
        return value.match(rnothtmlwhite) || [];
    }
    return [];
}
```

```
jQuery.fn.extend( {
    addClass: function( value ) {
        var classes,
            elem, cur, curValue, clazz, j, finalValue, value = 0;
        if ( isFunction( value ) ) {
            return this.each( function( j ) {
                jQuery( this ).addClass( value.call( this, j ) || getClass( this ) );
            } );
        }
```

```
`````
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equivalence

(requestHeadersNames[name.toLowerCase()] || name);

requestHeaders[ name ] =

// Caches the header
setRequestHeader: function( name, value ) {

	if ( completed == null ) {

name = requestHeadersNames[name.toLowerCase()]

null;

}

// To know if global events are to be dispatched

// Loop variable
uncached

// Context for global events is callbackContext if it is a DOM node or jQuery

collection

current

// URL cleanup var
urlAnchor,

// Request state (becomes false upon send and true upon completion)

lastModified:

// If target is omitted, writes into ajaxSettings.

responseFields:

responseXML:

"* text": String,

Text to html

true,

"text html": true,

"text json": jQuery.parseJSON

"*": allTypes,

// Parse text as xml

"text xml": jQuery.parseXML

// Engine dependent norms

contentTypes:

"*": allTypes,

// Convert anything to text

"text": true,

"text html": true,

"text xml": true,

"text json": true,

"html": /\bhtml/,

"xml": /\bxml\b/,

text/javascript"

"* text": String,

"*": allTypes,

JSON.parse,

"*": allTypes,

false,

"*": allTypes,

true,

"*": allTypes,

true,

"*": allTypes,

true,

"*": allTypes,

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value; //Overrides response content-type header('Content-Type': function( type ) { return type || 
																																																																																																																																									
																																																																																																																																																																																																																																																																																																																																																																																																																																															
jQuery.fn.extend({
  wrapAll: function(html)
  {
    var wrap;

    if (this[0]) {
      if (isFunction(html)) {
        html = html.call(this[0]);
      }

      // The elements to wrap the target around
      wrap = jQuery(html, this[0].ownerDocument).eq(0).clone(true);

      if (this[0].parentNode) {
        wrap.insertBefore(this[0], this[0].parentNode);
      }

      wrap.map(function(i) {
        var elem = this;
        while (elem.firstElementChild) {
          elem = elem.firstElementChild;
        }
        return elem;
      }).append(this);
    }
    return wrap; // jQuery(html, this[0].ownerDocument)
  },

  wrapInner: function(html)
  {
    if (isFunction(html)) {
      return this.each(function(i) {
        jQuery(this).wrapInner(html.call(this, i));
      });
    }

    return this.each(function() {
      var self = jQuery(this), contents = self.contents();

      if (contents.length) {
        contents.wrapAll(html);
      } else {
        self.append(html);
      }

      jQuery(this).unwrap().replaceWith((html.nodeName === "body")
        ? this : jQuery(this).html());
  },

  wrap: function(html)
  {
    var htmlIsFunction = isFunction(html);

    return this.each(function() {
      jQuery(this).wrapAll(htmlIsFunction ? html.call(this) : html);
    });
  },

  unwrap: function(selector)
  {
    this.parent(selector).not("body").each(function() {
      self.replaceWith(self.childNodes);
    });
    return this;
  }
});

jQuery.ajaxSettings.xhr = function() {
  try {
    return new window.XMLHttpRequest();
  } catch (e) {};
}

var xhrSuccessStatus = {
  0: 200,
  1223: 204
};

support.cors = !!xhrSuccessStatus && ("withCredentials" in xhr);
support.ajax = xhrSuccessStatus = !!xhrSuccessStatus;

jQuery.ajaxTransport(function(options) {
  var callback, errorCallback;

  // Cross domain only allowed if supported through XMLHttpRequest
  if (support.cors || xhrSuccessStatus && !options.crossDomain) {
    return {
      send: function(headers, complete) {
        var xhr = options.xhr;

        if (xhr.overrideMimeType) {
          xhr.overrideMimeType(options.mimeType || "text/html");
        }

        // Apply custom fields if provided
        for (var i in options.xhrFields) {
          xhr[i] = options.xhrFields[i];
        }

        override mime type if needed
        if (options.xhr.overrideMimeType) {
          xhr.overrideMimeType(options.xhr.overrideMimeType);
        }

        // X-Requested-With header
        if (options.xhr.setRequestHeader) {
          xhr.setRequestHeader("X-Requested-With", "XMLHttpRequest");
        }

        callback = function(type) {
          complete(xhr.readyState !== 4 ? "abort" : type);
          xhr.onload = xhr.onload || function() {
            return typeof xhr.onerror == "function";
          };
          xhr.onload = xhr.onload || function() {
            if (xhr.readyState !== 4) {
              xhr.onload = xhr.onerror = xhr.onabort = xhr.onreadystatechange = null;
            } else if (xhr.readyState === 4) {
              complete(xhr.status, xhr.statusText);
            } else {
              complete(xhr.responseText, xhr.statusText);
            }
          };
          setTimeout(function() {
            if (xhr.readyState !== 4) {
              xhr.onreadystatechange = function() {
                this.onload = this.onreadystatechange = null;
                complete(xhr.readyState !== 4 ? "abort" : type);
              };
            }
          }, 0);
        }

        // headers
        for (var i in options.xhr.headers) {
          xhr.setRequestHeader(i, options.xhr.headers[i]);
        }

        // File protocol always yields status code 0, assume 200
        xhr.open(options.type, options.url, options.async, options.headers, false);

        // WithCredentials
        if (options.xhr.withCredentials) {
          xhr.withCredentials = true;
        }

        // Support: IE <=9 only
        // On a manual native abort, IE9 throws this.onreadystatechange errors on any property access that is not readyState
        if (xhr.onreadystatechange) {
          xhr.onreadystatechange = function() {
            complete(xhr.readyState !== 4 ? "abort" : type);
          };
        }

        // On a manual native abort, IE9 throws this.onreadystatechange errors on any property access that is not readyState
        xhr.onreadystatechange = function() {
          complete(xhr.readyState !== 4 ? "abort" : type);
        };

        // Callback
        callback(xhr.readyState !== 4 ? "abort" : xhr.readyState);

        try {
          xhr.send(options.xhrData);
        } catch (e) {
          complete(xhr.readyState !== 4 ? "abort" : type);
        }
      }
    }; // transport
  }
});

jQuery.ajax({
  type: "GET",
  data: "some data",
  success: function(data) {
    alert(data);
  }
});
offsetParent
	offsetParent = offsetParent.offsetParent;
  
  
  return offsetParent || documentElement;

this.offsetParent;

while ( offsetParent && jQuery.css( offsetParent, "position" ) === "static" )

offsetParent: function() {
	return this.map( function() {
		var offsetParent = elem.ownerDocument.defaultView.getComputedStyle( elem, null ).getPropertyValue( "position" );

		// Assume position:fixed implies availability of getBoundingClientRect
		// This corresponds to the behavior of CSS absolute positioning

		offset = elem.getBoundingClientRect();

		// Get document-relative position by adding viewport scroll to viewport-relative gBCR
	enum = elem.getBoundingClientRect();

		// position:fixed elements are offset from the viewport, which itself always has zero offset
	enum.top = num.top - jQuery.css( elem, "marginTop", true );

		openum.left = num.left - jQuery.css( elem, "marginLeft", true );

		// Incorporate borders into its offset, since they are outside its content origin
	num = jQuery.offset.marginOffset( elem, jQuery.extend( {}, curOffset ) );

		// Subtract parent offsets and element margins

		return {
			top: rect.top + win.pageYOffset,
			left: rect.left + win.pageXOffset
		};

		// Account for the *real* offset position
	num = elem.getBoundingClientRect();

		// This will return documentElement in the following cases:

	// 1) For the element inside the iframe without offsetParent, this method will return documentElement of the parent

	// 2) For the hidden or detached element

	// 3) For body or html element, i.e. in case of the html node -

		// in the future
	onlyInViewport = function() {

			if ( !elem.getBoundingClientRect ) {

				return;

			}

			// Return zeros for disconnected and hidden (display: none) elements (gh-2310)

			// Support: IE <=11 only

			if ( elem.nodeName == "body" ) {

				return {

					top: 0,

					left: 0

				};

			} else if ( !elem.getClientRects().length ) {

				return { top: 0, left: 0 };

			} else if ( !elem.ownerDocument || elem.ownerDocument.body ) {

				return elem.ownerDocument.documentElement.getBoundingClientRect();

			} 

			// Use jQuery.extend here to allow modification of coordinates argument (gh-1848)

			// Considered as more preferable results.

	//

	// This logic, however, is not guaranteed and can change at any point in the future

			// but those exceptions were never presented as a real life use-cases

	// and might be considered as more preferable results.

	// This logic, however, is not guaranteed and can change at any point in the future

			// whether or not it will return itself

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	// and might be considered as more preferable results.

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	// This logic, however, is not guaranteed and can change at any point in the future

			// whether or not it will return itself

			// but those exceptions were never presented as a real life use-cases

	// and might be considered as more preferable results.
);\n\t}\n} );\n\n// Create scrollLeft and scrollTop methods\njQuery.each( { scrollLeft: \"pageXOffset\", scrollTop:
\"pageYOffset\" }, function( method, prop ) {\n\tvar top = \"pageYOffset\" === prop;\n\n\tjQuery.fn[ method ] =
function( val ) {\n\t\treturn access( this, function( elem, method, val ) {\n\n\t\t\t// Coalesce documents and
windows\n\t\t\tvar win;\n\t\t\tif ( isWindow( elem ) ) {\n\t\t\t\twin = elem;\n\t\t\t} else if ( elem.nodeType === 9 )
{\n\t\t\t\twin = elem.defaultView;\n\t\t\t}\n\n\t\t\tif ( val === undefined ) {\n\t\t\t\treturn win ? win[ prop ] : elem[
method ];\n\t\t\t}\n\n\t\t\tif ( win ) {\n\t\t\t\twin.scrollTo(\n\t\t\t\t\t!top ? val : win.pageXOffset,\n\t\t\t\t\ttop ? val :
win.pageYOffset\n\t\t\t\t);\n\n\t\t\t} else {\n\t\t\t\telem[ method ] = val;\n\t\t\t}\n\t\t}, method, val, arguments.length
);\n\t};\n} );\n\n// Support: Safari <=7 - 9.1, Chrome <=37 - 49\n// Add the top/left cssHooks using
jQuery.fn.position\n// Webkit bug: https://bugs.webkit.org/show_bug.cgi?id=29084\n// Blink bug:
https://bugs.chromium.org/p/chromium/issues/detail?id=589347\n// getComputedStyle returns percent when
specified for top/left/bottom/right;\n// rather than make the css module depend on the offset module, just check for it
here\njQuery.each( [ \"top\", \"left\" ], function( i, prop ) {\n\tjQuery.cssHooks[ prop ] = addGetHookIf(
support.pixelPosition,\n\t\tfunction( elem, computed ) {\n\t\t\tif ( computed ) {\n\t\t\t\tcomputed = curCSS( elem,
prop );\n\n\t\t\t\t// If curCSS returns percentage, fallback to offset\n\t\t\t\treturn rnumnonpx.test( computed )
?\n\t\t\t\t\tjQuery( elem ).position()[ prop ] + \"px\" :\n\t\t\t\t\tcomputed;\n\t\t\t}\n\t\t}\n\t);\n} );\n\n\n// Create
innerHeight, innerWidth, height, width, outerHeight and outerWidth methods\njQuery.each( { Height: \"height\",
Width: \"width\" }, function( name, type ) {\n\tjQuery.each( { padding: \"inner\" + name, content: type, \"\":
\"outer\" + name },\n\t\tfunction( defaultExtra, funcName ) {\n\n\t\t// Margin is only for outerHeight,
outerWidth\n\t\tjQuery.fn[ funcName ] = function( margin, value ) {\n\t\t\tvar chainable = arguments.length && (
defaultExtra || typeof margin !== \"boolean\" ),\n\t\t\t\textra = defaultExtra || ( margin === true || value === true ?
\"margin\" : \"border\" );\n\n\t\t\treturn access( this, function( elem, type, value ) {\n\t\t\t\tvar doc;\n\n\t\t\t\tif (
isWindow( elem ) ) {\n\n\t\t\t\t\t// $( window ).outerWidth/Height return w/h including scrollbars (gh1729)\n\t\t\t\t\treturn funcName.indexOf( \"outer\" ) === 0 ?\n\t\t\t\t\t\telem[ \"inner\" + name ]
:\n\t\t\t\t\t\telem.document.documentElement[ \"client\" + name ];\n\t\t\t\t}\n\n\t\t\t\t// Get document width or
height\n\t\t\t\tif ( elem.nodeType === 9 ) {\n\t\t\t\t\tdoc = elem.documentElement;\n\n\t\t\t\t\t// Either
scroll[Width/Height] or offset[Width/Height] or client[Width/Height],\n\t\t\t\t\t// whichever is
greatest\n\t\t\t\t\treturn Math.max(\n\t\t\t\t\t\telem.body[ \"scroll\" + name ], doc[ \"scroll\" + name
],\n\t\t\t\t\t\telem.body[ \"offset\" + name ], doc[ \"offset\" + name ],\n\t\t\t\t\t\tdoc[ \"client\" + name
]\n\t\t\t\t\t);\n\t\t\t\t}\n\n\t\t\t\treturn value === undefined ?\n\n\t\t\t\t\t// Get width or height on the element,
requesting but not forcing parseFloat\n\t\t\t\t\tjQuery.css( elem, type, extra ) :\n\n\t\t\t\t\t// Set width or height on the
element\n\t\t\t\t\tjQuery.style( elem, type, value, extra );\n\t\t\t}, type, chainable ? margin : undefined, chainable
);\n\t\t};\n\t} );\n} );\n\n\njQuery.each( ( \"blur focus focusin focusout resize scroll click dblclick \"
+\n\t\"mousedown mouseup mousemove mouseover mouseout mouseenter mouseleave \" +\n\t\"change select
submit keydown keypress keyup contextmenu\" ).split( \" \" ),\n\tfunction( i, name ) {\n\n\t// Handle event
binding\n\tjQuery.fn[ name ] = function( data, fn ) {\n\t\treturn arguments.length > 0 ?\n\t\t\tthis.on( name, null,
data, fn ) :\n\t\t\tthis.trigger( name );\n\t};\n} );\n\njQuery.fn.extend( {\n\thover: function( fnOver, fnOut )
{\n\t\treturn this.mouseenter( fnOver ).mouseleave( fnOut || fnOver );\n\t}\n} );\n\n\n\n\njQuery.fn.extend(
{\n\n\tbind: function( types, data, fn ) {\n\t\treturn this.on( types, null, data, fn );\n\t},\n\tunbind: function( types, fn )
{\n\t\treturn this.off( types, null, fn );\n\t},\n\n\tdelegate: function( selector, types, data, fn ) {\n\t\treturn this.on(
types, selector, data, fn );\n\t},\n\tundelegate: function( selector, types, fn ) {\n\n\t\t// ( namespace ) or ( selector,
types [, fn] )\n\t\treturn arguments.length === 1 ?\n\t\t\tthis.off( selector, \"**\" ) :\n\t\t\tthis.off( types, selector ||
\"**\", fn );\n\t}\n} );\n\n// Bind a function to a context, optionally partially applying any\n// arguments.\n//
jQuery.proxy is deprecated to promote standards (specifically Function#bind)\n// However, it is not slated for
removal any time soon\njQuery.proxy = function( fn, context ) {\n\tvar tmp, args, proxy;\n\n\tif ( typeof context ===
\"string\" ) {\n\t\ttmp = fn[ context ];\n\t\tcontext = fn;\n\t\tfn = tmp;\n\t}\n\n\t// Quick check to determine if target is
callable, in the spec\n\t// this throws a TypeError, but we will just return undefined.\n\tif ( !isFunction( fn ) )
{\n\t\treturn undefined;\n\t}\n\n\t// Simulated bind\n\targs = slice.call( arguments, 2 );\n\tproxy = function()
{\n\t\treturn fn.apply( context || this, args.concat( slice.call( arguments ) ) );\n\t};\n\n\t// Set the guid of unique

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handler to the same of original handler, so it can be removed\n\tproxy.guid = fn.guid = fn.guid ||
jQuery.guid++;\n\n\treturn proxy;\n};\n\njQuery.holdReady = function( hold ) {\n\tif ( hold )
{\n\t\tjQuery.readyWait++;\n\t} else {\n\t\tjQuery.ready( true );\n\t}\n};\njQuery.isArray =
Array.isArray;\njQuery.parseJSON = JSON.parse;\njQuery.nodeName = nodeName;\njQuery.isFunction =
isFunction;\njQuery.isWindow = isWindow;\njQuery.camelCase = camelCase;\njQuery.type =
toType;\n\njQuery.now = Date.now;\n\njQuery.isNumeric = function( obj ) {\n\n\t// As of jQuery 3.0, isNumeric is
limited to\n\t// strings and numbers (primitives or objects)\n\t// that can be coerced to finite numbers (gh2662)\n\tvar type = jQuery.type( obj );\n\treturn ( type === \"number\" || type === \"string\" ) &&\n\n\t\t//
parseFloat NaNs numeric-cast false positives (\"\")\n\t\t// ...but misinterprets leading-number strings, particularly
hex literals (\"0x...\")\n\t\t// subtraction forces infinities to NaN\n\t\t!isNaN( obj - parseFloat( obj ) );\n};\n\n\n\n\n//
Register as a named AMD module, since jQuery can be concatenated with other\n// files that may use define, but not
via a proper concatenation script that\n// understands anonymous AMD modules. A named AMD is safest and most
robust\n// way to register. Lowercase jquery is used because AMD module names are\n// derived from file names,
and jQuery is normally delivered in a lowercase\n// file name. Do this after creating the global so that if an AMD
module wants\n// to call noConflict to hide this version of jQuery, it will work.\n\n// Note that for maximum
portability, libraries that are not jQuery should\n// declare themselves as anonymous modules, and avoid setting a
global if an\n// AMD loader is present. jQuery is a special case. For more information, see\n//
https://github.com/jrburke/requirejs/wiki/Updating-existing-libraries#wiki-anon\n\nif ( typeof define ===
\"function\" && define.amd ) {\n\tdefine( \"jquery\", [], function() {\n\t\treturn jQuery;\n\t} );\n}\n\n\n\n\nvar\n\n\t//
Map over jQuery in case of overwrite\n\t_jQuery = window.jQuery,\n\n\t// Map over the $ in case of overwrite\n\t_$
= window.$;\n\njQuery.noConflict = function( deep ) {\n\tif ( window.$ === jQuery ) {\n\t\twindow.$ =
_$;\n\t}\n\n\tif ( deep && window.jQuery === jQuery ) {\n\t\twindow.jQuery = _jQuery;\n\t}\n\n\treturn
jQuery;\n};\n\n// Expose jQuery and $ identifiers, even in AMD\n// (#7102#comment:10,
https://github.com/jquery/jquery/pull/557)\n// and CommonJS for browser emulators (#13566)\nif ( !noGlobal )
{\n\twindow.jQuery = window.$ = jQuery;\n}\n\n\n\n\nreturn jQuery;\n} );\n","var map = {\n\t\"./en.json\":
\"e847\"\n};\n\n\nfunction webpackContext(req) {\n\tvar id = webpackContextResolve(req);\n\treturn
__webpack_require__(id);\n}\nfunction webpackContextResolve(req) {\n\tvar id = map[req];\n\tif(!(id + 1)) { //
check for number or string\n\t\tvar e = new Error(\"Cannot find module '\" + req + \"'\");\n\t\te.code =
'MODULE_NOT_FOUND';\n\t\tthrow e;\n\t}\n\treturn id;\n}\nwebpackContext.keys = function
webpackContextKeys() {\n\treturn Object.keys(map);\n};\nwebpackContext.resolve =
webpackContextResolve;\nmodule.exports = webpackContext;\nwebpackContext.id = \"11b2\";","var pIE =
require('./_object-pie');\nvar createDesc = require('./_property-desc');\nvar toIObject = require('./_to-iobject');\nvar
toPrimitive = require('./_to-primitive');\nvar has = require('./_has');\nvar IE8_DOM_DEFINE = require('./_ie8-domdefine');\nvar gOPD = Object.getOwnPropertyDescriptor;\n\nexports.f = require('./_descriptors') ? gOPD : function
getOwnPropertyDescriptor(O, P) {\n O = toIObject(O);\n P = toPrimitive(P, true);\n if (IE8_DOM_DEFINE) try
{\n return gOPD(O, P);\n } catch (e) { /* empty */ }\n if (has(O, P)) return createDesc(!pIE.f.call(O, P),
O[P]);\n};\n","/**\n * Checks if `value` is suitable for use as unique object key.\n *\n * @private\n * @param {*}
value The value to check.\n * @returns {boolean} Returns `true` if `value` is suitable, else `false`.\n */\nfunction
isKeyable(value) {\n var type = typeof value;\n return (type == 'string' || type == 'number' || type == 'symbol' || type
== 'boolean')\n ? (value !== '__proto__')\n : (value === null);\n}\n\nmodule.exports = isKeyable;\n","var
identity = require('./identity');\n\n/**\n * Casts `value` to `identity` if it's not a function.\n *\n * @private\n *
@param {*} value The value to inspect.\n * @returns {Function} Returns cast function.\n */\nfunction
castFunction(value) {\n return typeof value == 'function' ? value : identity;\n}\n\nmodule.exports =
castFunction;\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

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isObjectLike(value) { return value != null && typeof value == 'object'; }

module.exports = isObjectLike;

"data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAJ4AAACeCAYAAADDhbN7AAAABmJLR0QA
owA6AADnOD5/AAAACXBIWXMAAAsTAAALEwEAmpwYAAAAB3RJTUUH4QgLCggYIJ85zwAAABl0R
Vh0J2JZk50U1sFeWttFXT0QfY5NROrMeizKe7qHs2Lue30et9fV09ue7Vppx56ng
6GH6f968rWd8rW/Cr/mTCxEmpVcMvna/6BN7f0iEmlNw7ZyODP3psyJyi5c0MkJxz9v2fHaIAa7wv4+Mx
qP61xrUWvDt3szy76rpec+0011JliAP4f3/odyhabj9y5/WjaZ+jkbz+KgbsV2NvBUVVW7yggicyc10b
NkUZzCzoCOinU/k7/6qFY9QFPeF0ja+maqytkt06GpvS0z/GyJmYum950yvEB9'+q6ssh15rPf40gW6
SvmXkswen54f1p1SsN9m
kuXKDx7y75TDIYnpWtQxHu+e+h9nU3jiZQkwFnrNyR92Pho++/o0PkxZq6f6D11X+iqv4ep62QrmWhtX
9ettncWpDEPztoOe+957ma2Kmnv5/wBjJYahR+v0qah1dsEi+1tb+/bqv1SPPu+W2q+/mHjxqWxnuFNb
L2ts0b2zu9Fk9PtaPz59heGw0Gvbpvy1Rei+29NX0/q7MMTsmMjnMntuowP+avjRxjzmyYePsfYzW/WtO
HqUcUrzDru4y/qv+3vdPd6lkP3m5VNEHeHkvG1q+0HML3kucUMj9Q3L3lmai0gdOpKj7CfXszZEr Fee/6c7/BW17OYb
dxkyE4t3p46Wbhb+T3f25/tas15o20nt4Gt/CIO8WjlihunuNh6ut7bWbw6z0BHaSKqKzNe1iZu+++kMh22a3D1hfa
QRH66sUrOWBoYwU8EB4AOeH6p4M4MZcvUvF/M+L6/fe8sXNjmBP6ped6ez2MrMmPBeADhfgAwaYPw
HpgaPhAYQHwhMD4QHEB4IDyA8EB5AeCA8x8+B1+5mKrz22SOmb+Lp9Y93HtalV3yOMK7yCtC1kYsH2
+f6b/L4bqXhAYQHwhPphAYQHwhqv+gMOb/OyjUyUm21zoML8j5/dTvbeyE5z4P2Q55eNxb3WlzhGt1/V+u/W
HqvHYQL5s8+GZ/btBc3J3sVnZZndvahG54a7awhDe06rXFAH36a/tBxvnXwcG9bzeO2mu7Oqfr++w3/r0yhrq
qf9ns/3iLeXyblu0+uJcC3ZS28wrk3D5QZBvG63u9ryj9kKBBXrWetf2+psx45T39C9XiJ9xiZjge7vej
z9Wd2PTkJxRzolyp39TbPvD/KbExFvS1Jaaran+snmhNrcrLVlvyjimwHeZnejT/V+Hv2Gwp2zRyM3fmLc
W3U9Y0yXdxh/bjfp+G7XbESXu2vVvlyy9lGZg+mPTE5r0xaA/V/sGHQQvrVc77W7n6pUqJm3+miSpDafu
6fgj/ue3qU3Fw5lLeckKChpPttumPrSHt5WT3OThusaCw89l12ovq7FfufsUstfW8lxe3jIhhl+jW
P1WtL1vZ6TRnMzOklP1b2r0Qtv303Xadey56/yT37LNIkKVRq7fms4Rn/1FaQozbo343f65pcK6i1/1FzB9He2q27O
XExEubN0iznyj02v7FR/3p8fuzN8Kotf1LQ4AqxKHIfPrkUqY1yl9fDu+ueq95vBqyWDP5W82Mr7nsiKP+90
zY9V5oTv1bVX93p05xqj2mZHUgYdZ8FbZombmdq32zsosky1Y7GC038rX6GrHbquwouXfeob3EE2/OEDs
3Kv8eH1Tez080/EMHZ8wK6ymU4hkpp3ZSB3BmDym30f39K9/U9rvKsr2o6usibi6vmSnNMZkitolJla
x7t1e994F0b8T2G7HzeDXpB50V7YK9zTiu07be+HfKn10tkt6b7mvdvmXszgsLOzGUvHcLkQN+2bndJntRe
oQgSgyWpIFimdhHV2y/m12XWjv9R9FW+f5InVyQ0l3yNxy1X3Kb606Xt07LSS+xxWfrQOdb9krlyjik5l0
OuZewS5UIp97TL19bX0uurumI1d3w6s1i3ynuu4fFsrM+P/1.7q4p6q3460c3qyvQpgo6palXqgrfT4eI3ipA/AQ3f
D4mwtE5mHEyDqW8HV4YAHwAMID4QGE8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgAFPP1gQHagA1YWMD4QGE
8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgAFPP1gQHagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgA4T
HagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgAFPP1gQHagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQ
HagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgAFPP1gQHagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQ
HagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQGhfIDwQHgAFPP1gQHagA1YWMD4QGE8ID8CAEBA8dCAAp80X18PhQ

ctx(port.postMessage, port, 1); // Browsers with postMessage, skip WebWorkers
// IE8 has postMessage, but
it's sync & typeof its postMessage is 'object'
} else if (global.addEventListener && typeof postMessage == 'function' & &
!global.importScripts) { // defer = function (id)
  if (global.postMessage(id + '', '*'))
    return;
}

if (global.addEventListener && typeof postMessage == 'function' & &
!global.importScripts) {
  defer = function (id) {
    html.appendChild(cel('script'))[ONREADYSTATECHANGE] =
    function () {
      html.removeChild(this);
      run.call(id);
    };
  }

  global.addEventListener('message', listener, false);
} else if (ONREADYSTATECHANGE in
cel('script')) {
  defer = function (id) {
    html.appendChild(cel('script'))[ONREADYSTATECHANGE] =
    function () {
      html.removeChild(this);
      run.call(id);
    };
  }

  cel['delete'](objecct);
  return;
}

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/**
 * Checks if `value` is the
 * [language type](http://www.ecma-
 * international.org/ecma-262/7.0/#sec-ecmascript-language-types)
 * 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;

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/**
 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`. (e.g. arrays, functions, objects, regexes, `new Number(0)`,
 * and `new String('')")
 * @private
 * @param {Object} object The
 * object to compare.
 * @param {Object} other The other object to compare.
 * @param {string} tag The
 * `toStringTag` of the objects 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 isoEqual(object, other, tag, bitmask, customizer, equalFunc, stack) {
  switch (tag) {
    case dataViewTag:
      if ((object.byteLength != other.byteLength) ||
          (object.byteOffset != other.byteOffset)) {
        return false;
      }

      object = object.buffer;
      other = other.buffer;

    case arrayBufferTag:
      if ((object.byteLength != other.byteLength) ||
          !equalFunc(new Uint8Array(object), new Uint8Array(other))) {
        return false;
      }
      return true;

    case boolTag:
    case dateTag:
    case numberTag:
      // Coerce booleans to `1` or `0` and dates to milliseconds.
      // Invalid dates are coerced to `NaN`.
      return eq(+object, +other);

    case errorTag:
      return object.name == other.name && object.message == other.message;

    case regexpTag:
    case stringTag:
      // Coerce regexes to strings and treat strings, primitives and objects,
      // as equal. See
      // http://www.ecma-international.org/ecma-262/7.0/#sec-regexp.prototype.toString
      // for more details.
      return object.toString() == other.toString();

    case mapTag:
      // Assumed cyclic values are equal.
      var isPartial = bitmask & COMPARE_PARTIAL_FLAG;
      convert || (convert = setToArray);
      if (object.size != other.size & &
          !isPartial) {
        return false;
      }

      // Cyclic values are equal.
      stack.get(object);
      if (stacked) {
        return stacked == other;
      }

      // Recursively compare objects (susceptible to call stack limits).
      stack.set(object, other);
      var result = equalArrays(convert(object), convert(other), bitmask, customizer,
          equalFunc, stack);
      stack['delete'](object);
      return result;

    case setTag:
      // Coerce regexes to strings and treat strings, primitives and objects,
      // as equal. See
      // http://www.ecma-international.org/ecma-262/7.0/#sec-regexp.prototype.toString
      // for more details.
      return object.toString() == other.toString();

    case symbolTag:
      if (symbolValueOf)
        return symbolValueOf.call(object) == symbolValueOf.call(other);
  }
  return
circumstances, to provide the same value for `\n * object` and `\n * other`. See https://github.com/jashkenas/underscore/pull/1247

// for more details.\n * // This also ensures a stable sort in\n * V8 and other engines.\n * // See https://bugs.chromium.org/p/v8/issues/detail?id=90 for more details.\n * return\n * context: - other.index;\n * array = Array(length);\n * while (++index < length) {\n * array[index] = args[start + index];\n * }\n * index = -1;\n * var otherArgs = 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 * }\n * }\n * module.exports = mapCacheGet;
require('./_nativeCreate');

/** Used to stand-in for `undefined` hash values. */
var HASH_UNDEFINED = ' __lodash_hash_undefined__';

/**
 * Sets the hash `key` to `value`.
 *
 * @private
 * @name set
 *
 * @memberOf Hash
 * @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;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var argsTag = '[object Arguments]';

/**
 * The base implementation of `_.isArguments`.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an arguments object, else `false`.
 */
function baseIsArguments(value) {
  return isObjectLike(value) && baseGetTag(value) == argsTag;
}

module.exports = baseIsArguments;

exports.f = Object.getOwnPropertySymbols;

var arrayEvery = require('./_arrayEvery'),
    baseEvery = require('./_baseEvery'),
    baseIteratee = require('./_baseIteratee'),
    isArray = require('./isArray'),
    isIterateeCall = require('./_isIterateeCall');

/**
 * Checks if `predicate` returns truthy for **all** elements of `collection`.
 * Iteration is stopped once `predicate` returns falsey.
 * The predicate is invoked with three arguments: (value, index|key, collection).
 *
 * **Note:** This method returns `true` for
 * empty collections because [everything is true](https://en.wikipedia.org/wiki/Vacuous_truth) of
 * elements of empty collections.
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Collection
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} [predicate=_.identity] The function invoked per iteration.
 * @param-{Object} [guard] Enables use as an iteratee for methods like `_.map`.
 * @returns {boolean} Returns `true` if all elements pass the predicate check,
 * else `false`.
 * @example
 *
 * _.every([true, 1, null, 'yes'], Boolean);
 * // => false
 *
 * var users = [
 *   { 'user': 'barney', 'age': 36, 'active': false },
 *   { 'user': 'fred', 'age': 40, 'active': false }
 * ];
 *
 * // The `_.matches` iteratee shorthand.
 * _.every(users, { 'user': 'barney', 'active': false });
 * // => true
 *
 * // The `_.matchesProperty` iteratee shorthand.
 * _.every(users, ['active', false]);
 * // => true
 *
 * // The `_.property` iteratee shorthand.
 * _.every(users, 'active');
 * // => true
 */
function every(collection, predicate, guard) {
  var func = isArray(collection) ? arrayEvery : baseEvery;
  if (guard && isIterateeCall(collection, predicate, guard)) {
    predicate = undefined;
  }
  return func(collection, baseIteratee(predicate, 3));
}

module.exports = every;

var classof = require('./_classof');
var ITERATOR = require('./_wks')('iterator');
var Iterators = require('./_iterators');
module.exports = require('./_core').getIteratorMethod = function (it) {
  if (it != undefined)
    return it[ITERATOR]
      || it['@@iterator']
      || Iterators[classof(it)];
};

// @@split logic
require('./_fix-regexp-wks')('split', 2, function (defined, SPLIT, $split) {
  'use strict';
  var isRegExp = require('./_is-regexp');
  var _split = $split;
  var $push = [].push;
  var $SPLIT = 'split';
  var $LENGTH = 'length';
  var $LAST_INDEX = 'lastIndex';
  if ($SPLIT in String.prototype)
    return $split;
  var $push = [].push;
  var $SPLIT = 'split';
  var $LENGTH = 'length';
  var $LAST_INDEX = 'lastIndex';
  if ($SPLIT in String.prototype)
    return $split;
  var NPCG = /()??/.exec('')[$1] === undefined; // nonparticipating capturing group
  if (NPCG)
    return $split;
  function (defined, SPLIT, $split) {
    'use strict';
    var isRegExp = required('./_is-regexp');
    var _split = $split;
    var $push = [].push;
    var $SPLIT = 'split';
    var $LENGTH = 'length';
    var $LAST_INDEX = 'lastIndex';
    if ($SPLIT in String.prototype)
      return $split;
    var NPCG = /()??/.exec('')[$1] === undefined; // nonparticipating capturing group
  }
separatorCopy.exec(string)) {
  // `separatorCopy.lastIndex` is not reliable cross-browser
  lastIndex = match.index + match[0][LENGTH];
  if (lastIndex > lastLastIndex) {
    output.push(string.slice(lastLastIndex, match.index));
    // Fix browsers whose `exec` methods don't
    // consistently return `undefined` for NPCG
    // eslint-disable-next-line no-loop-func
    if (!NPCG && match[LENGTH] > 1) match[0].replace(separator2, function () {
      for (i = 1; i < arguments[LENGTH] - 2; i++) if (arguments[i] === undefined) match[i] = undefined;
    });
    if (match[LENGTH] > 1 && match.index < string[LENGTH]) $push.apply(output, match.slice(1));
    lastLength = match[0][LENGTH];
    lastLastIndex = lastIndex;
    if (output[LENGTH] >= splitLimit) break;
  }
  if (separatorCopy[LAST_INDEX] === match.index) separatorCopy[LAST_INDEX]++;
}
}

if (lastLastIndex === string[LENGTH]) {
  if (lastLength || !separatorCopy.test('')) output.push('');
} else output.push(string.slice(lastLastIndex));
return output[LENGTH] > splitLimit ? output.slice(0, splitLimit) : output;
}

// Chakra, V8
} else if ('0'[$SPLIT](undefined, 0)[LENGTH]) {
  $split = function (separator, limit) {
    return separator === undefined && limit === 0 ? [] : _split.call(this, separator, limit);
  };
}

// 21.1.3.17 String.prototype.split(separator, limit)
return [function split(separator, limit) {
  var O = defined(this);
  var fn = separator == undefined ? undefined : separator[$SPLIT];
  return fn !== undefined ? fn.call(separator, O, limit) : $split.call(String(O), separator, limit);
}];

(module.exports = function (O, key, val, safe) {
  var isFunction = typeof val == 'function';
  if (isFunction) has(val, 'name') || hide(val, 'name', key);
  if (O[key] === val) return;
  if (isFunction) has(val, SRC) || hide(val, SRC, O[key] ? '' + O[key] : TPL.join(String(key)));
  if (O === global) {
    O[key] = val;
  } else if (!safe) {
    delete O[key];
    hide(O, key, val);
  } else {
    hide(O, key, val);
  }
// add fake Function#toString for correct work wrapped methods / constructors with
// methods like LoDash isNative
})(Function.prototype, TO_STRING, function toString() {
  return typeof this == 'function' && this[SRC] || $toString.call(this);
});
freeGlobal = require(’../freeGlobal’);

var freeSelf = typeof self == ’object’ && self && self.Object === Object && self;

var module.exports = 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[0] || (store[0] = USE_SYMBOL && Symbol[0] || (USE_SYMBOL ? Symbol : uid) (’Symbol.’ + name));
};

$exports.store = store;

module.exports = false;

/**
 * A specialized version of `_.filter` for arrays without support for iteratee shorthands.
 *
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} [param] 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;

toString = {}.toString;

module.exports = function (it) {
  return toString.call(it).slice(8, -1);
};

/**
 * Removes `key` and its value from the stack.
 *
 * @private
 * @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);

  this.size = data.size;
  return result;
}

module.exports = stackDelete;

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({});
 * // => false
 */

function isArrayLike(value) {
  return value != null && isLength(value.length) && !isFunction(value);
}

module.exports = isArrayLike;

// fast apply, http://jsperf.lnk.it/fast-apply/5

module.exports = function (fn, args, that) {
  var un = that === undefined;
  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);
};

dP = require(’./_object-dp’);
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;
};

arrayFilter = require(’./_arrayFilter’);
stubArray = require(’./stubArray’);

/**
 * Creates an array of the own enumerable symbols of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of symbols.
 */

var getSymbols = !nativeGetSymbols? stubArray : function (object) {
  if (object == null) {
    return [];
  }
  object = Object(object);
  return arrayFilter(nativeGetSymbols(object),
    function (symbol) {
      return propertyIsEnumerable.call(object, symbol);
    });
}

module.exports = getSymbols;

// check on default Array iterator

var Iterators = require(’./_iterators’);

module.exports = function (it) {
  return it !== undefined || (Iterators.Array === it || ArrayProto[’iterator’] === it);
};

var isFunction = require(’./isFunction’),
    isMasked = require(’./_isMasked’),
    isObject = require(’./isObject’),
    toSource = require(’./toSource’);

var reRegExpChar = /[\^$.*+?()[\]{}|]/g;

module.exports = function (iterator, sources) {
  return reRegExpChar.test(toSource(iterator));
};

var reIsHostCtor = /^(?:null|function)\s+\$\w+\$/;

module.exports = function (obj) {
  return reIsHostCtor.test(toSource(obj));
};

method references. */

var funcProto = Function.prototype,
objectProto = Object.prototype;

/*
 * Assumes `func`s to return a function itself.
 * @private
 */

var funcToString = funcProto.toString;

/** Used to resolve the `toStringTag` of `func`.
 */

var hasOwnProperty = objectProto.hasOwnProperty;

/** Used to check objects for own properties.
 */

var isObject = function isObject(value) {
  return typeof value == 'object' && value != null;
};

module.exports = isObject;

/*
 * The base implementation of `_.isNative` without fallbacks.
 * @private
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * Gets the `toStringTag` of `value`.
 */

var getTag = function getTag(value) {
  return isObject(value) ? value['toStringTag'] : null;
};

module.exports = getTag;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;

/*
 * The base implementation of `_.isNative` without fallbacks.
 */

var baseIsNative = function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }

  var pattern = function isFunction(value) {
    return value && typeof value == 'function' &&
      function.prototype.isPrototypeOf(value);
  };

  var result = pattern(value);
  return result;
};

module.exports = baseIsNative;
false, this.isUnpinned: false, this.currentScrollY: 0, this.lastScrollY: 0, this.state: '', this.translate: 0, this.isSupport3d: false, this.disabled: false, thisإدارة: function _default() {
    return window; }, this.upTolerance: Number, this.downTolerance: Number, this.speed: 0, this.easing: 'ease-in-out'; } }, this.zIndex: this.state === 'pinned' ? this.zIndex : 1; }

    // SSR cannot detect scroll position. To prevent flash when component mounted,
    // just add transition styles in browser.
    if (!this.$isServer) {
    this.scroller().removeEventListener('scroll', this._handleScroll);
  },

 Computed: {
    style: function style() {
      var styles = {
        'position': this.isInTop ? 'fixed' : 'relative',
        'top': '0',
        'left': '0',
        'right': '0',
        'z-index': this.isInTop ? this.zIndex : 1
      };
      if (this.footroom) {
        styles = _extends({}, styles, { 'top': 'unset', 'bottom': '0' });
      }
      // SSR cannot detect scroll position. To prevent flash when component mounted,
      // just add transition styles in browser.
      if (!this.$isServer) {
        this.scroller().removeEventListener('scroll', this._handleScroll);
      }

    // When headroom is mounted, call handleScroll to set initial state.
    this._handleScroll();
  },

  BeforeDestroy: function beforeDestroy() {
    this.scroller().addEventListener('scroll', this._handleScroll);
  },

  Mounted: function mounted() {
    this.isSupport3d = supports3d();
    if (!this.disabled) {
      this.scroller().addEventListener('scroll', this._handleScroll);
    }
  },

  Watch: {
    disabled: function watch() {
      if (newVal) {
        this.scroller().removeEventListener('scroll', this._handleScroll);
      } else {
        this.scroller().addEventListener('scroll', this._handleScroll);
      }
    },
  },

  Props: {
    scroller: {
      type: Function,
      default: function () {
        return window;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    footroom: {
      type: Boolean,
      default: false
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
    classes: {
      type: Object,
      default: function _default() {
        return defaultCls;
      }
    },

    onPin: Function,
    onUnpin: Function,
    onTop: Function,
    onNotTop: Function,
    onBottom: Function,
    onNotBottom: Function,
    offset: Number,
& & 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;

exports.nextTick = function nextTick(fn) {
  setImmediate(fn);
};

exports.platform = exports.arch = '';
exports.execPath = exports.title = 'browser';
exports.pid = 1;
exports.browser = true;
exports.env = {};
exports.argv = [];

exports.binding = function (name) {
  throw new Error('No such module. (Possibly not yet loaded)')
};

(function () {
  var cwd = '/';
  var path;
  exports.cwd = function () { return cwd };
  exports.chdir = function (dir) {
    if (!path)
      path = require('path');
    cwd = path.resolve(dir, cwd);
  };
})();

exports.exit = exports.kill =
exports.umask = exports.dlopen =
exports.uptime = exports.memoryUsage = exports.uvCounters = function()
{};

exports.features = {
  /*
   * Gets the last element of `array`.
   * @static
   * @memberOf _
   * @since 0.1.0
   * @category Array
   * @param {Array} array The array to query.
   * @returns {*} Returns the last
   * element of `array`.
   * @example
   *_.last([1, 2, 3]);
   * // => 3
   */
  function last(array) {
    var length =
      array == null ? 0 : array.length;
    return length ? array[length - 1] : undefined;
  }
}

module.exports = last;

var toObject = require('./_to-object');
var $keys = require('./_object-keys');

require('./_object-sap')('keys', function () {
  return function keys(it) {
    return $keys(toObject(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);
};

module.exports = function (bitmap, value) {
  return {
    enumerable: !(bitmap & 1),
    configurable: !(bitmap & 2),
    writable: !(bitmap & 4),
    value: value
  }
};

var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

/**
 * The base implementation of `_.forEach` without support for iteratee shorthands.
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per
 * iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);

module.exports = baseEach;

// @@match logic
require('./_fix-re-wks')('match', 1, function (defined, MATCH, $match) {
  // 21.1.3.11 String.prototype.match(regexp)
  return [function match(regexp) {
    'use strict';
    var O = defined(this);
    var fn = regexp = undefined ? undefined :
      regexp[INDEX];
    return fn !== undefined ? fn.call(regexp, O) : new RegExp(regexp)[MATCH]());
  }, $match];
});

var nativeCreate = require('./_nativeCreate');

/**
 * Removes all key-value entries from the
 * hash.
 * @private
 * @name clear
 * @memberOf Hash
 */
function hashClear() {
  this.__data__ =
    nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
}

module.exports = hashClear;

var ctx = require('./_ctx');
var call = require('./_iter-call');
var isArrayIter = require('./_is-array-iter');
var anObject = require('./_an-object');
var getIterFn = require('./core.get-iterator-method');
var BREAK = [];
var RETURN = [];
var exports = module.exports = function (iterable, entries, fn, that, ITERATOR) {
  var iterFn = ITERATOR ? function () { return iterable; } : getIterFn(iterable);
  var f = ctx(fn, that, entries ? 2 : 1);
  var index = 0;
  var length, step, iterator, result;
  if (typeof iterFn != 'function')
    throw TypeError('Expected iter to be a function');
  // fast case for arrays with default iterator
  if (isArrayIter(iterFn))
    for (length = toLength(iterable.length); length > index; index++) {
      result = entries ? f(anObject(step =
        iterable[index])[0], step[1]) : f(iterable[index]);
      if (result === BREAK || result === RETURN) return result;
    }
  else for (iterator = iterFn.call(iterable); !
    step = iterator.next().done;) {
    result = call(iterator, f, step.value, entries);
    if (result === BREAK || result === RETURN) return result;
  }
}

exports.BREAK = BREAK;
exports.RETURN = RETURN;

// 7.1.3 ToObject(argument)
var array = require('./_baseCreate');
var exports = function (it) {
  return Object(defined(it));
};

var baseFlatten = require('./_baseFlatten');
var baseFlatten =
  Flattens `array` a single level deep. *
  @category Array * @param Array array The array to flatten.
  @returns {Array} Returns the new flattened array.
  @example
  _.flatten([1, 2, [3, [4], 5]]); // => [1, 2, 3, [4], 5]

  function flaten(array) {
    var var length = array == null ? 0 : array.length;
    var return length = baseFlatten(array, 1):
```
module.exports = flatten;

/*!
 * baseTimes 
 * @private
 * @param {number} n The number of times to invoke `iteratee`.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns the array of results.
 */
function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

module.exports = baseTimes;
```
var dualScreenLeft = window.screenLeft !== undefined ?
    /**
     * Center the popup on dual screens
     * http://stackoverflow.com/questions/4068373/center-a-popup-
     * popup default dimensions.
   */
  mounted: function mounted () {
    if (!inBrowser) {
      return;
    }

  beforeMount () {
    this.baseNetworks = Vue.util.extend(this.baseNetworks, this.networks);
  },

  /**
   * Merge base networks list with user’s list
   */
  beforeMount: function
        },
      }, 500);
    }
  },

  /**
   * Sets
   */
  window: undefined,
  interval: null
    }
  };
  },

  methods: {
    /**
     * Returns generated
false,
        location: false,
        directories: false,
        width: 626,
        height: 436,
        top: 0,
        left:
        window: undefined,
        interval: null
    },

    /**
     * Touches network and emits click event.
    touch: function touch (network) {
      window.open(this.createSharingUrl(network), '_self');

    },

    /**
     * Opens sharer popup.
    share: function share (network) {
      this.openSharer(network, this.createSharingUrl(network));

    },

    /**
     * Shares URL in specified network.
    share:
       Sharer url.
     *
     * @param network Social network key.
     */
    createSharingUrl: function createSharingUrl (network) {
      return this.baseNetworks[network].sharer
        .replace(/@url/g, encodeURIComponent(this.url))
        .replace(/@hashtags/g, this.hashtags)
        .replace(/@media/g,
            ).replace(/@description/g, encodeURIComponent(this.description))
        .replace(/@quote/g,
            ).replace(/@title/g, encodeURIComponent(this.title))

    },

    /**
     * Create Sharer URL
     */
    createSharerUrl: function createSharerUrl(network) {
      return this.baseNetworks[network].sharer
    },

    /**
     * Google plus
     */
    withCounts: {
      type: [String, Boolean],
      default: false
    },

    /**
     * Google plus key.
    googleKey: {
      type: String,
      default: undefined
    },

    /**
     * Twitter user.
    twitterUser: {
      type: String,
      default: ''
    },

    /**
     * Twitter hashtags
    hashtags: {
      type: String,
      default: ''
    },

    /**
     * Facebook quote
    quote: {
      type: String,
      default: ''
    },

    /**
     * Description
    description: {
      type: String,
      default: ''
    },

    /**
     * Title
    title: {
      type: String,
      default: ''
    },

    /**
     * Sharing description, if
available by network
    */
  },

  with Counts: {
    type: [String, Boolean],
    default: false
  },

  Google Plus: {
    type: String,
    default: undefined
  },

  Twitter User: {
    type: String,
    default: ''
  },

  Twitter Hashtags: {
    type: String,
    default: ''
  },

  Facebook Quote: {
    type: String,
    default: ''
  },

  Description: {
    type: String,
    default: ''
  },

  Title: {
    type: String,
    default: ''
  },

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```javascript
// function? then: false
notify = function (promise, isReject) {
  if (promise._n) return;

  var chain = promise._c;
  microtask(function () {
    var value = promise._v;
    var ok = promise._s === 1;
    var i = 0;
    var run = function (reaction) {
      var handler = ok ? reaction.ok : reaction.fail;
      var resolve = reaction.resolve;
      var reject = reaction.reject;
      var domain = reaction.domain;
      var result = null;
      try {
        if (handler) {
          if (!ok) {
            if (promise._h === 2) ownHandleUnhandled(promise);
            promise._h = 1;
          }
          if (handler(value)) {
            result = handler(value); // may throw
          }
        }
      } finally {
        if (domain.exit) domain.exit();
        if (result === reaction.promise) {
          reject(TypeError("Promise-chain cycle"));
        } else if (then.isThenable()) {
          then.call(result, resolve, reject);
        } else resolve(result);
      }
    }
  });
}

Promise.prototype.catch(onRejected)
  'catch': function (onRejected) {
    return this.then(undefined, onRejected);
  },

Promise.prototype.then(onFulfilled, onRejected)
  'then': function (onFulfilled, onRejected) {
    var reaction;
    if (onFulfilled) {
      reaction.ok = typeof onFulfilled == 'function' ? onFulfilled : true;
      reaction.promise = newPromiseCapability(speciesConstructor(this, $Promise));
      reaction.promise._n = true;
      reaction.promise._l = reaction.promise;
    } else if (onRejected) {
      reaction.fail = typeof onRejected == 'function' ? onRejected : true;
      reaction.promise = newPromiseCapability(speciesConstructor(this, $Promise));
      reaction.promise._n = true;
      reaction.promise._l = reaction.promise;
    }
    reaction.domain = isNode ? process.domain : undefined;
    reaction.schedule = (domain) => {
      try {
        if (domain.exit) domain.exit();
        reject(e);
      }
    };
    while (chain.length > i) {
      reaction = chain[i++];
      if (reaction.fail) {
        reject(e);
      } else if (then = isThenable(result)) {
        then.call(result, reaction.resolve, reaction.reject);
        try {
          then.call(result, resolve, reject);
        } catch (e) {
          reject(e);
        }
      } else if (result === reaction.promise) {
        reject(TypeError('Promise-chain cycle'));
      } else if (result !== reaction.promise && reaction.fail) {
        reject(result);
      } else if (result !== reaction.promise && reaction.ok) {
        resolve(result);
      } else if (result === $Promise._redefine.all) {
        // Do nothing
      } else {
        if (domain) domain.exit();
        reject(e);
      }
    }
    return reaction.promise;
  },

Promise.prototype.then(onFulfilled, onRejected)
  'nextTick': function (onFulfilled, onRejected) {
    var reaction = newPromiseCapability(speciesConstructor(this, $Promise));
    reaction.ok = typeof onFulfilled == 'function' ? onFulfilled : true;
    reaction.fail = typeof onRejected == 'function' ? onRejected : true;
    reaction.domain = isNode ? process.domain : undefined;
    reaction.schedule = (domain) => {
      try {
        if (domain.exit) domain.exit();
        reject(e);
      }
    };
    while (chain.length > i) {
      reaction = chain[i++];
      if (reaction.fail) {
        reject(e);
      } else if (then = isThenable(result)) {
        then.call(result, reaction.resolve, reaction.reject);
        try {
          then.call(result, resolve, reject);
        } catch (e) {
          reject(e);
        }
      } else if (result === reaction.promise) {
        reject(TypeError('Promise-chain cycle'));
      } else if (result !== reaction.promise && reaction.fail) {
        reject(result);
      } else if (result !== reaction.promise && reaction.ok) {
        resolve(result);
      } else if (result === $Promise._redefine.all) {
        // Do nothing
      } else {
        if (domain) domain.exit();
        reject(e);
      }
    }
    return reaction.promise;
  },

function isUnhandled(promise)
  'isUnhandled': function () {
    return promise._h !== 1 && (promise._a || promise._c).length === 0;
};

var onUnhandled = function (promise) {
  task.call(global, function () {
    var handler;
    if (isNode) {
      handler = global.onunhandledrejection;
    } else if (handler = global.onrejectionhandled) {
      handler({
        promise: promise,
        reason: promise._v
      });
    }
  });
};

// Browsers should not trigger `rejectionHandled` event if it was handled here, NodeJS - should run
if (!USE_NATIVE) {
  Promise = function executor(executor) {
    let promise = this;
    let then;
    if (promise._d) return;
    promise._d = true;
    promise = promise._w || promise; // unwrap
    promise._v = value;
    promise._s = 2;
    if (!promise._a) promise._a = promise._c.slice();
    notify(promise, true);
  }
};

var $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;
  if (!promise._a) promise._a = promise._c.slice();
  notify(promise, true);
};

var $reject = function (value) {
  var promise = this;
  if (promise === value) throw TypeError("Promise can't be resolved itself");
  if (then = isThenable(value)) {
    promise._d = true;
    promise = promise._w || promise; // unwrap
    promise._v = value;
    if (promise._s === 2) onHandleUnhandled(promise);
  } else {
    if (domain !== undefined) domain.exit();
  }
};

function promiseHandleUnhandled(promise) {
  if (isNode) {
    promise._h = isNode ? !isUnhandled(promise) : Promise._isUnhandled(promise);
  } else if (promise._h) {
    promise._h = false;
  }
  promise._a = undefined;
  if (unhandled && result.e) throw result.v;
}

Promise.reject = 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;
  if (!promise._a) promise._a = promise._c.slice();
  notify(promise, true);
};

Promise.reject = 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;
  if (!promise._a) promise._a = promise._c.slice();
  notify(promise, true);
};

Promise.reject = 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;
  if (!promise._a) promise._a = promise._c.slice();
  notify(promise, true);
};
```
newPromiseCapabilityModule.f = newPromiseCapability = function (C) { 
    return C === $Promise || C === Wrapper; 
};

$export($export.G + $export.W + $export.F * !USE_NATIVE, { 
    Promise: $Promise 
});

// statics
$export($export.S + $export.F * !(USE_NATIVE && require('./_iter-detect')(function (iter) {
    $Promise.all(iter)['catch'](empty);
})), { 
    // 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 $index = index++;
                var alreadyCalled = false;
                values.push(undefined);
                remaining++;
                C.resolve(promise).then(function (value) { 
                    if (alreadyCalled) return;
                    alreadyCalled = true;
                    values[$index] = value;
                    --remaining || resolve(values);
                }, 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(iterable, false, function (promise) { 
                C.resolve(promise).then(capability.resolve, reject);
            });
        });
        if (result.e) reject(result.v);
        return capability.promise;
    }
});

function stackHas(key) {
    return this.__data__.has(key);
}

module.exports = stackHas;

var overArg = require('./_overArg');

var nativeKeys = overArg(Object.keys, Object);

module.exports = nativeKeys;

/** Detect free variable `global` from Node.js. */
var freeGlobal = typeof global == 'object' && global && global.Object === Object && global

module.exports = freeGlobal;

"data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAIgAAABaCAYAAABjTB52AAAE8klEQVR4Ae3dA7dA7D0ShDF8Wfbtm3btm3btm3btm3btv2u7yYzep3G9D3U3k1ROV51ybffM/NYaSKWqTcFBg0DbaHk+HEo7UtOC9jEgXQ/cReAfDHkt5OuQNIQ/pCfkjZCbwoO0I3RM12UoF1wwK6eq2/DhScXN2jQ/uCPDPh/gQjHkJ3EFFYoHe6W37m8zbP/2TJW39uycCEla1r7ZjZmKubVvwJ/XdGtCP6QZKHxwTOxV4lyzhL/J3b9r65uWFkJ+eMLtD7d49hbnnU0j7xQBACk4uImEAoERAoGMs8M+GUHczCQSYidW7/d3gw4xhXyZAjJaIO5y8MRPupuAalAxINgx4SPloWMSaAsKJEoGc3xXbBgtObWwBKWDlyZZ 이러한 텍스트는 자연어로 읽을 수 있습니다.
The base implementation of `_.reduce` and `_.reduceRight`, without support for iteratee shorthands, which iterates over `collection` using `eachFunc`.

```
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;
}
```

```
var arrayPush = require('./_arrayPush'),
    isFlattenable = require('./_isFlattenable');

/**
 * The base implementation of `_.flatten` with support for restricting flattening.
 */
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 (susceptible to call stack limits).
        baseFlatten(value, depth - 1, predicate, isStrict, result);
      } else {
        arrayPush(result, value);
      }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}
```

```
var global = require('./_global');
var core = require('./_core');
var hide = require('./_hide');
var redefine = require('./_redefine');
var ctx = require('./_ctx');
var PROTOTYPE = 'prototype';

var $export = function (type, name, source) {
  var 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 target = IS_GLOBAL
    ? global
    : IS_STATIC
    ? global[name]
    : (global[name] || {})[PROTOTYPE];
  var exports = IS_GLOBAL
    ? core
    : core[name] || (core[name] = {});
  var expProto = exports[PROTOTYPE] || (exports[PROTOTYPE] = {});
  var key, own, out, exp;
  if (IS_GLOBAL) source = name;
  for (key in source) {
    // contains in native
    own = !IS_FORCED && target && target[key] !== undefined;
    // export native or passed
    out = (own ? target : source)[key];
    // bind timers to global for call from export context
    exp = IS_BIND && &own ? ctx(out, global) : IS_PROTO && typeof out == 'function' ? ctx(Function.call, out) : out;
    if (expProto[key] != out) expProto[key] = out;
    if (IS_PROTO) redefine(out, expProto[key], expProto, expProto[key]);
  }
};
```

```
var ITERATOR = require('./_wks')('iterator');
var SAFE_CLOSING = false;

try {
  var riter = [7][ITERATOR]();
  riter['return'] = function () {
    SAFE_CLOSING = true; };
} catch (e) { /* empty */ }

module.exports = function (exec, skipClosing) {
  if (!skipClosing && !SAFE_CLOSING) return false;
  var safe = false;
  try {
    var key, own, out, exp;
    if (IS_GLOBAL) source = name;
    for (key in source) {
      // contains in native
      own = IS_FORCED && &target && &target[key] !== undefined;
      // export native or passed
      exp = (own ? target : source)[key];
      // bind timers to global for call from export context
      exp = IS_BIND && own ? ctx(out, global) : IS_PROTO && &typeof out == 'function' ? ctx(Function.call, out) : out;
      // extend global
      if (target redefine(target, key, out, type & &Export.U)) {
        // export def
        if (exports[key] != out) hide(exports, key, exp);
        if (IS_PROTO && &export(key) != out) expProto[key] = out;
      }
    }
  } catch (e) { /* empty */ }
  return safe;
}
```

```
var isObject = require('./_is-object');
var setPrototypeOf = require('./_set-proto').set;
module.exports = function (that, target, C) {
  var S = target.constructor;
  var P;
  if (S !== C && typeof S == 'function' && (P = S.prototype) !== C.prototype &&
  typeof S !== 'undefined' && typeof C !== 'undefined' &&
  typeof S == 'function' && (P = S.prototype) !== C.prototype) {
```
index < length) {
    object = object[toKey(path[index++])];
  }
  return (index && index == length) ? object : undefined;
}

module.exports = baseGet;

/**
 * A specialized version of `_.every` for arrays without
 * iteratee shorthands.
 *
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {boolean} Returns `true` if all elements pass the predicate check,
 * else `false`.
 */
function arrayEvery(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;

/**
 * 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`.
 */
var isArray = Array.isArray;

module.exports = isArray;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Sets the list cache `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf ListCache
 * @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;

var hasOwnProperty = {}.hasOwnProperty;
module.exports = function (it, key) {
  return hasOwnProperty.call(it, key);
};

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes `key` and its value from the list cache.
 *
 * @private
 * @name delete
 * @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;

var arrayMap = require('./_arrayMap'),
    baseIteratee = require('./_baseIteratee'),
    baseMap = require('./_baseMap'),
    baseSortBy = require('./_baseSortBy'),
    baseUnary = require('./_baseUnary'),
    compareMultiple = require('./_compareMultiple'),
    hasOwnProperty = {}.hasOwnProperty;

/**
 * The base implementation of `_.orderBy` without param guards.
 *
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function[]} iteratees The iteratees to sort by.
 * @param {string[]} orders The sort orders of `iteratees`.
 * @returns {Array} Returns the sorted array.
 */
function baseOrderBy(array, iteratees, orders) {
  var index = -1;
  iteratees = arrayMap(iteratees.length ? iteratees : 
[identity], 
baseUnary(baseIteratee));

  var result = baseMap(array, function(value, index) {
    var value
    });

  return result;
}

module.exports = baseOrderBy;

/**
 * A specialized version of `_.isObject` which detects
 * `null` and `undefined` as values rather than coerced to
 * objects.
 *
 * @private
 * @name isObject
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an object, else `false`.
 */
var isObject = function (value) {
  return value && isObject(value);
}

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-1.\n    length = array.length;\n    if (initAccum &\& length) {\n      accumulator =\n        array[+index];\n    } while (+index < length) {\n      accumulator = iteratee(accumulator, array[index], index,\n        array);\n    } return accumulator;\n  }\n}\n
module.exports = arrayReduce;

"use strict";
require('./es6.regexp.flags');\nvar anObject = require('./_an-object');\nvar $flags = require('./_flags');\nvar DESCRIPTORS = require('./_descriptors');\nvar TO_STRING = 'toString';\nvar $toString = /./[TO_STRING];

var define = function (fn) {\n  require('./_redefine')(RegExp.prototype, TO_STRING, fn,\n    true);\n}\n
// 21.2.5.14 RegExp.prototype.toString()\nif (require('./_fails')(function () { return $toString.call({\n    source: 'a', flags: 'b' }) !== '/a/b'; })) {\n  define(function toString() {\n    var R = anObject(this);\n    return \r.concat(R.source, \r\r'flags' in R ? R.flags : !DESCRIPTORS && R instanceof RegExp ? $flags.call(R) :\n      undefined);\n  });\n} FF44- RegExp#toString has a wrong name\nelse if ($toString.name !== TO_STRING) {\n  define(function toString() {\n    return $toString.call(this);\n  });\n}

//exported by mini-css-extract-plugin
isArguments = require('./isArguments'),\n isArray = require('./isArray'),\n isBuffer = require('./isBuffer'),\n
isIndex = require('./_isIndex'),\n isTypedArray = require('./isTypedArray');\n\n/** Used for built-in method
references. */\nvar objectProto = Object.prototype;\n\n/** Used to check objects for own properties. */\nvar
hasOwnProperty = objectProto.hasOwnProperty;\n\n/**\n * Creates an array of the enumerable property names of
the array-like `value`.\n *\n * @private\n * @param {*} value The value to query.\n * @param {boolean} inherited
Specify returning inherited property names.\n * @returns {Array} Returns the array of property names.\n
*/\nfunction arrayLikeKeys(value, inherited) {\n var isArr = isArray(value),\n
isArg = !isArr &&
isArguments(value),\n
isBuff = !isArr && !isArg && isBuffer(value),\n
isType = !isArr && !isArg &&
!isBuff && isTypedArray(value),\n
skipIndexes = isArr || isArg || isBuff || isType,\n
result = skipIndexes ?
baseTimes(value.length, String) : [],\n
length = result.length;\n\n for (var key in value) {\n if ((inherited ||
hasOwnProperty.call(value, key)) &&\n
!(skipIndexes && (\n
// Safari 9 has enumerable
`arguments.length` in strict mode.\n
key == 'length' ||\n
// Node.js 0.10 has enumerable non-index
properties on buffers.\n
(isBuff && (key == 'offset' || key == 'parent')) ||\n
// PhantomJS 2 has
enumerable non-index properties on typed arrays.\n
(isType && (key == 'buffer' || key == 'byteLength' || key
== 'byteOffset')) ||\n
// Skip index properties.\n
isIndex(key, length)\n
))) {\n
result.push(key);\n
}\n }\n return result;\n}\n\nmodule.exports = arrayLikeKeys;\n","// extracted by mini-css-extract-plugin","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 function that returns `value`.\n *\n * @static\n
* @memberOf _\n * @since 2.4.0\n * @category Util\n * @param {*} value The value to return from the new
function.\n * @returns {Function} Returns the new constant function.\n * @example\n *\n * var objects =
_.times(2, _.constant({ 'a': 1 }));\n *\n * console.log(objects);\n * // => [{ 'a': 1 }, { 'a': 1 }]\n *\n *
console.log(objects[0] === objects[1]);\n * // => true\n */\nfunction constant(value) {\n return function() {\n
return value;\n };\n}\n\nmodule.exports = constant;\n","'use strict';\n// 19.1.2.1 Object.assign(target, source, ...)\nvar
getKeys = require('./_object-keys');\nvar gOPS = require('./_object-gops');\nvar pIE = require('./_object-pie');\nvar
toObject = require('./_to-object');\nvar IObject = require('./_iobject');\nvar $assign = Object.assign;\n\n// should
work with symbols and should have deterministic property order (V8 bug)\nmodule.exports = !$assign ||
require('./_fails')(function () {\n var A = {};\n var B = {};\n // eslint-disable-next-line no-undef\n var S =
Symbol();\n var K = 'abcdefghijklmnopqrst';\n A[S] = 7;\n K.split('').forEach(function (k) { B[k] = k; });\n return
$assign({}, A)[S] != 7 || Object.keys($assign({}, B)).join('') != K;\n}) ? function assign(target, source) { // eslintdisable-line no-unused-vars\n var T = toObject(target);\n var aLen = arguments.length;\n var index = 1;\n var
getSymbols = gOPS.f;\n var isEnum = pIE.f;\n while (aLen > index) {\n var S = IObject(arguments[index++]);\n
var keys = getSymbols ? getKeys(S).concat(getSymbols(S)) : getKeys(S);\n var length = keys.length;\n var j =
0;\n var key;\n while (length > j) if (isEnum.call(S, key = keys[j++])) T[key] = S[key];\n } return T;\n} :
$assign;\n","\"use strict\";\n\nvar isValue = require(\"../is-value\");\n\nvar keys = Object.keys;\n\nmodule.exports =
function (object) { return keys(isValue(object) ? Object(object) : object); };\n","var baseIsTypedArray =
require('./_baseIsTypedArray'),\n baseUnary = require('./_baseUnary'),\n nodeUtil = require('./_nodeUtil');\n\n/*
Node.js helper references. */\nvar nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;\n\n/**\n * Checks if
`value` is classified as a typed array.\n *\n * @static\n * @memberOf _\n * @since 3.0.0\n * @category Lang\n *
@param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a typed array, else
`false`.\n * @example\n *\n * _.isTypedArray(new Uint8Array);\n * // => true\n *\n * _.isTypedArray([]);\n * // =>
false\n */\nvar isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray) :
baseIsTypedArray;\n\nmodule.exports = isTypedArray;\n","import mod from \"-!../../node_modules/mini-cssextract-plugin/dist/loader.js??ref--8-oneOf-1-0!../../node_modules/css-loader/index.js??ref--8-oneOf-11!../../node_modules/vue-loader/lib/loaders/stylePostLoader.js!../../node_modules/postcss-loader/src/index.js??ref--

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transform: { type: [String, Object],
  default: null
 },

var props = context.props;

var transform = objectWithKey('transform', typeof props.transform === 'string' ? fontawesome.parse.transform(props.transform) : props.transform);

var renderedText = fontawesome.text(props.value, _extends({}, transform));

var abstract = renderedText.text;

var convertCurry = convert.bind(null, createElement);

return convertCurry(abstract[0], {}, context.data);

fontawesome.noAuto();

exports['default'] = FontAwesomeIcon$1;
exports.FontAwesomeIcon = FontAwesomeIcon$1.exports;
exports.FontAwesomeLayers = FontAwesomeLayers;
exports.FontAwesomeLayersText = FontAwesomeLayersText;

Object.defineProperties(exports, {
  'default': { value: true, configurable: true, get: function () { return this; } },
  'use strict': { value: true, configurable: true, get: function () { return true; } },
  'isBuffer': { value: isBuffer, configurable: true, get: function () { return isBuffer; } },
  'isArray': { value: isArray, configurable: true, get: function () { return isArray; } }
});

module.exports = MapCache;
implemented()")() ? Object.keys : require("./shim").\n","var Hash = require(’/Hash’),\n ListCache = require(’/ListCache’).\n Map = require(’/Map’);\n
/*\n * Removes all key-value entries from the map.\n */\n
@private\n @name clear\n @memberOf MapCache\n @function mapCacheClear\n (\n this.size = 0;\n this.__data__ = {\n ’hash’: new Hash,\n ’map’: new (Map || ListCache),\n ’string’: new Hash\n });\n
\n
"\n
@returns {Array} The key-value pairs of cache.\n */\n
@name get\n @memberOf Stack\n @returns {value} Returns the entry value.

\n
var global = require(’/_global’);\n var macrotask = require(’/_microtask’);\n var queue = require(’/_queue’);\n var promisify = require(’/_promisify’);\n var promisifyAll = require(’/_promisify-all’);\n var invoke = require(’/_invoke’);\n
*/

@returns {Array} Returns the key-value pairs of entries.\n */

@returns {data} Returns the new ListCache(entries).

\n
isArray = require(’/_isArray’);\n
/**
 * Returns the value to cache.\n */

@returns {value} Value the cache.

\n
@returns {array} Returns the cache instance.

\n
@returns {value} Adds ‘value’ to the array cache.

\n
\n
/**
 * Adds `value` to the array cache.
 *
 *
 * @private\n * @name add\n * @memberOf SetCache\n * @alias push\n * @param {*} value The value to cache.
 * @returns {Object} Returns the cache instance.
 */

function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;


/**
 * A specialized version of `_.forEach` for arrays
 * without support for iteratee shorthands.
 *
 * @private\n * @param {Array} 
 * @param {Function} \n * @returns {Array} \n */

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;
exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon:
  [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ]};

exports.faFacebook = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;
// extracted by mini-css-extract-plugin
hiddenKeys);

/*
 * Creates a unary function that invokes `func` with its argument transformed.
 * @private
 * @param {Function} func The function to wrap.
 * @returns {Function} Returns the new function.
 */

function overArg(func, transform) {
  return function(arg) {
    return func(transform(arg));
  };
}

module.exports = overArg;

var getMapData = require('./_getMapData');

/**
 * Removes `key` and its value from the map.
 * @private
 * @param {string} key The key of the value to remove.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */

function mapCacheDelete(key) {
  var result = getMapData(this, key)['delete'](key);
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = mapCacheDelete;

// ES2015 Symbol polyfill for environments that do not (or partially) support it

'use strict';

var d              = require('d')
  , validateSymbol = require('./validate-symbol')

  , create = Object.create,
  defineProperties = Object.defineProperties
  , defineProperty = Object.defineProperty, objPrototype = Object.prototype
  , NativeSymbol, SymbolPolyfill, HiddenSymbol, globalSymbols = create(null)
  , isNativeSafe;

if (typeof Symbol === 'function') {
  NativeSymbol = Symbol;
  try {
    String(NativeSymbol());
    isNativeSafe = true;
  } catch (ignore) {}
}

var generateName = (function () {
  var created = create(null);
  return function (desc) {
    var postfix = 0, name, ie11BugWorkaround;
    while (created[desc + (postfix || '')]) ++postfix;
    desc += (postfix || '');
    created[desc] = true;
    name = '@@' + desc;
    defineProperty(objPrototype, name, d.gs(null, function (value) {
      // For IE11 issue see:
      // https://github.com/medikoo/es6-symbol/issues/12
      if (ie11BugWorkaround) return;
      ie11BugWorkaround = true;
      defineProperty(this, name, d(value));
      ie11BugWorkaround = false;
    }));
    return name;
  }();
}());

// Internal constructor (not one exposed) for creating Symbol instances.
// This one is used to ensure that `someSymbol instanceof Symbol` always return false
// Exposed Symbol constructor
// (returns instances of HiddenSymbol)
module.exports = SymbolPolyfill = function Symbol(description) {
  var symbol;
  if (this instanceof Symbol) throw new TypeError('Symbol is not a constructor');
  if (isNativeSafe) return NativeSymbol(description);

  symbol = create(HiddenSymbol.prototype);
  description = (description === undefined ? '' : String(description));
  return defineProperties(symbol, {
    __description__: d('', description),
    __name__: d('', generateName(description))
  });
}

defineProperties(SymbolPolyfill, {
  for: d(function (key) {
    if (globalSymbols[key]) return globalSymbols[key];
    return (globalSymbols[key] = SymbolPolyfill(String(key)));
  },),
  keyFor: d(function (s) {
    var keyFor = (key in globalSymbols) ? key : Object.getOwnPropertyDescriptor(SymbolPolyfill, 'keyFor').get.call(this, s);
    return keyFor in globalSymbols ? keyFor : undefined;
  },),
  toPrimitive: d(function () { return 'default'; },),
  // To ensure proper interoperability with other native functions (e.g. Array.from)
  // fallback to eventual native implementation of given symbol
  hasInstance: d('', (NativeSymbol && NativeSymbol.hasInstance) || SymbolPolyfill('hasInstance'))
});

// Proper implementation of methods exposed on Symbol.prototype
SymbolPolyfill.prototype = {
  toObject: d(function () { return this; },
  // Proper implementation of methods exposed on Symbol.prototype
});

defineProperties(HiddenSymbol.prototype, {
  toObject: d(function () { return this; },
  // Proper implementation of methods exposed on Symbol.prototype
});

Open Source Used In SMI 2021.01.0-Apr-2022 7229
(' + validateSymbol(this).__description__ + ');});

```

```

`defineProperty(SymbolPolyfill.prototype, SymbolPolyfill.toPrimitive, d('`,

'SymbolPolyfill.prototype, SymbolPolyfill.toPrimitiveTag, d('`,

`defineProperty(SymbolPolyfill.prototype(SymbolPolyfill.toStringTag));`)

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false;
}] else {\n  var stack = new Stack;\n  if (customizer) {\n    var result = customizer(objValue, srcValue, key, object, source, stack);\n  }\n  if (!$result) return false;\n  var baseEach = require(\'/baseEach\');\n  var isArrayLike = require(\'/isArrayLike\');\n  return baseEach(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack);\n}

module.exports = baseIsMatch;

"use strict";
module.exports = function (value) {
  if (!isValue(value)) throw new TypeError("Cannot use null or undefined");
  return value;
};

var baseEach = require('./_baseEach'), isArrayLike = require('./isArrayLike');

/**
 * The base implementation of `_.map` without support for iteratee shorthands.
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns the new mapped array.
 */
function baseMap(collection, iteratee) {
  var index = -1,
      result = isArrayLike(collection) ? Array(collection.length) : [];
  baseEach(collection, iteratee, function (value, key, object) {
    index += 1;
    result[index] = iteratee(value, key, object);
  });
  return result;
}

module.exports = baseMap;

/**
 * Creates a base function for methods like `_.forIn` and `_.forOwn`.
 * @private
 * @param {boolean} [fromRight] Specify iterating from right to left.
 * @returns {Function} Returns the new base function.
 */
function createBaseFor(fromRight) {
  return function (object, iteratee, keysFunc) {
    var index = -1,
        iterable = Object(object),
        props = keysFunc(object),
        length = props.length;
    while (length--) {
      var key = fromRight ? length : ++index;
      if (iteratee(iterable[key], key, iterable) === false) {
        break;
      }
    }
    return object;
  };
}

module.exports = createBaseFor;

var freeGlobal = require('./_freeGlobal');

/** Detect free variable `exports`. */
var freeExports = typeof exports == 'object' && exports && !exports.nodeType && exports;

/** Detect free variable `module`. */
var freeModule = freeExports && typeof module == 'object' && module && !module.nodeType && module;

/** Detect the popular CommonJS extension `module.exports`. */
var moduleExports = freeModule && freeModule.exports === freeExports;

/** Detect free variable `process` from Node.js. */
var freeProcess = moduleExports && freeGlobal.process;

/** Used to access faster Node.js helpers. */
var nodeUtil = (function() {
  try {
    // Use `util.types` for Node.js 10+.
    var types = freeModule && freeModule.require && freeModule.require('util').types;
    if (types) {
      return types;
    }
    // Legacy `process.binding('util')` for Node.js < 10.
    return freeProcess && freeProcess.binding && freeProcess.binding('util');
  } catch (e) {
  }
}());

module.exports = nodeUtil;

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.
 */
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}

module.exports = get;

// optional / simple context binding
var aFunction = require('./_a-function');
module.exports = function (fn, that, length) {
  aFunction(fn);\n  if (that === undefined) return fn();\n  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);
    };
  }
};

// Deprecated

"use strict";
module.exports = function (obj) {
  return null;
};
typeof obj === "function";

module.exports = function (exec) {
  try {
    return { e: false, v: exec() };
  } catch (e) {
    return { e: true, v: e };
  }
}

// 22.1.3.31 Array.prototype[@@unscopables]
var UNSCOPABLES = require('./_wks')('unscopables');
var ArrayProto = Array.prototype;

if (!ArrayProto[UNSCOPABLES])
  ArrayProto[UNSCOPABLES] = {};

Array.prototype[UNSCOPABLES] = function (key) {
  ArrayProto[UNSCOPABLES][key] = true;
}

module.exports = function (exec) {
  try {
    return { e: false, v: exec };
  } catch (e) {
    return { e: true, v: e };
  }
}

// 7.1.15 ToLength
var toInteger = require('./_to-integer');
var min = Math.min;
module.exports = function (it) {
  return it > 0 ? min(toInteger(it), 0x1fffffffffffff) : 0;
}

// Thank's IE8 for his funny defineProperty
module.exports = !require('./_fails')(function () {
  return Object.defineProperty({}, 'a', { get: function () { return 7; } }).a !== 7);}

var root = require('./_root');

/** Built-in value references. */
var Symbol = root.Symbol;

module.exports = Symbol;

var global = require('./_global');
var navigator = global.navigator;
var navigator.update = navigator && navigator.userAgent || "", var SetCache = require('./_SetCache'),
    arraySome = require('./_arraySome'),
    cacheHas = require('./_cacheHas');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

COMPARE_UNORDERED_FLAG = 2;

module.exports = function (key) {
  ArrayProto[UNSCOPABLES][key] = true;
}

module.exports = function (exec) {
  try {
    return { e: false, v: exec() };
  } catch (e) {
    return { e: true, v: e };
  }
}

// Assume cyclic values are equal.
var var stacked = stack.get(array);
if (stacked && stack.get(other)) {
  return stacked == other;
}

// 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, array, 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);
          }
        })) {
      result = false;
      break;
    }
  } else if (!(!arrValue === othValue ||
                equalFunc(arrValue, othValue, bitmask, 
                customizer, stack))) {
    result = false;
    break;
  }
}

stack['delete']('array);

return result;

module.exports = equalArrays;
mapCacheHas(key) {\n  return getMapData(this, key).has(key);\n}\n
module.exports = mapCacheHas;

"use strict";\\nmodule.exports.f = function (C) {\n  return new PromiseCapability(C);\n};
var baseGetAllKeys = require('./_baseGetAllKeys'),\n    getSymbols = require('./_getSymbols'),\n    keys = require('./keys');\n
var baseGetAllKeys = require('./_baseGetAllKeys'),\n    getSymbols = require('./_getSymbols'),\n    keys = require('./keys');\n
module.exports = getSymbols;

var baseGetAllKeys = require('./_baseGetAllKeys');\n
function PromiseCapability(C) {\n  var resolve, reject;\n  this.promise = new C(function ($$resolve, $$reject) {\n    if (resolve !== undefined || reject !== undefined) throw TypeError('Bad Promise constructor');\n    resolve = $$resolve;\n    reject = $$reject;\n  });\n  this.resolve = aFunction(resolve);\n  this.reject = aFunction(reject);\n}

module.exports = PromiseCapability;

var baseGetAllKeys = require('./_baseGetAllKeys'),\n    getSymbols = require('./_getSymbols'),\n    keys = require('./keys');\n
module.exports = baseGetAllKeys;

"use strict";

Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fas';
var iconName = 'clipboard';
var width = 384;
var height = 512;
var ligatures = [];\n
var unicode = 'f328';

var $iterators = require('./es6.array.iterator');
var getKeys = require('./_object-keys');
var redefine = require('./_redefine');
var global = require('./_global');
var hide = require('./_hide');
var Iterators = require('./_iterators');
var wks = require('./_wks');
var ITERATOR = wks('iterator');
var TO_STRING_TAG = wks('toStringTag');
var ArrayValues = Iterators.Array;


for (var collections = getKeys(DOMIterables), i = 0; i < collections.length; i++) {
  var NAME = collections[i];\n  var explicit = DOMIterables[NAME];\n  var Collection = global[NAME];\n  var proto = Collection && Collection.prototype;\n  var key;\n  if (proto) {\n    var IteratorPrototype = proto[ITERATOR],\n        ArrayValues = IteratorPrototype["values"]();\n    for (var i = 0; i < ArrayValues.length; i++) {\n      var value = ArrayValues[i];\n      if (value) {\n        if (value["values"]() && value["values"]["next"]) {\n          value["values"]["next"](i);\n        }\n      }\n    }\n  }\n}
```javascript
// exports.definition = {
//   prefix: prefix,
//   iconName: iconName,
//   icon: [
//     width,
//     height,
//     ligatures,
//     unicode,
//     svgPathData
//   ]};

exports.faClipboard = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used for object without own `hasOwnProperty` checks. */
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 {Array} bitmask The bitmask flags.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @returns {boolean} Returns `true` if the objects are equivalent, else
 * `false`. An equivalent to `!!object && !!other`. Returns `true` if the objects are equivalent,
 * else `false`.
 */
function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  // ...
module is in cache

```
/******/
/******/ if (installedModules[moduleId]) {

 ```

```
			return

 ```

```
		// Create a new module (and put it into the cache)
```

```
Execute the module function
```

```
module[moduleId].call(module.exports, module, module.exports, _webpack_require__)
```

```
Flag the module as loaded
```

```
		// expose the modules object
```

```
		// expose the module cache
```

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hasn't been called()"; } return call && (typeof call === 'function') ? call : self;
} \nfunction _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.prototype, { constructor: { value: superClass, enumerable: false, writable: true, configurable: true } });
    if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass;
}

Clipboard = function (_Emitter) {
    _inherits(Clipboard, _Emitter);

    /**
     * @param {Object} options
     * @constructor
     */
    function Clipboard(trigger, options) {
        _classCallCheck(this, Clipboard);

        var _this = _possibleConstructorReturn(this, (Clipboard.__proto__ || Object.getPrototypeOf(Clipboard)).call(this));

        this.clipboardAction = new _clipboardAction2.default({
            action: _this.action(trigger),
            target: _this.target(trigger),
            text: _this.text(trigger),
            container: _this.container,
            trigger: _this.trigger(trigger),
            emitter: _this.emitter,
            this: this
        });

        return _this;
    }

    /**
     * Defines if attributes would be resolved using internal setter functions
     * or custom functions that were passed in the constructor.
     * @param {Object} options
     * @param {Object} _createClass
     */
    _createClass(Clipboard, [
        { key: 'createFromOptions', value: function createFromOptions() {
            var options = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
            var support = !!document.queryCommandSupported;
            options.action = typeof options.action === 'function' ? options.action : ['copy', 'cut'];
            options.target = typeof options.target === 'function' ? options.target : getAttributeValue('target', trigger);
            options.action = typeof options.action === 'function' ? options.action : [action];
            if (typeof options.text === 'function') options.text = options.text(trigger);
            if (options.container) options.container = getAttributeValue('container', trigger);
            options.target = options.target(trigger);
            options.action = options.action(trigger);
            options.container = options.container(trigger);
            options.trigger = options.trigger(trigger);
            options.emitter = options.emitter(trigger);
            options.this = options.this(trigger);
            options.text = options.text(trigger);

            return _this2.createFromOptions();
        }
    ], {
        key: 'createFromOptions',
        value: function createFromOptions() {
            var options = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
            var support = !!document.queryCommandSupported;
            options.action = typeof options.action === 'function' ? options.action : ['copy', 'cut'];
            options.target = typeof options.target === 'function' ? options.target : getAttributeValue('target', trigger);
            options.action = typeof options.action === 'function' ? options.action : [action];
            if (typeof options.text === 'function') options.text = options.text(trigger);
            if (options.container) options.container = getAttributeValue('container', trigger);
            options.target = options.target(trigger);
            options.action = options.action(trigger);
            options.container = options.container(trigger);
            options.trigger = options.trigger(trigger);
            options.emitter = options.emitter(trigger);
            options.this = options.this(trigger);
            options.text = options.text(trigger);

            return _this2.createFromOptions();
        }
    ], {
        key: 'createFromOptions',
        value: function createFromOptions() {
            var options = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
            var support = !!document.queryCommandSupported;
            options.action = typeof options.action === 'function' ? options.action : ['copy', 'cut'];
            options.target = typeof options.target === 'function' ? options.target : getAttributeValue('target', trigger);
            options.action = typeof options.action === 'function' ? options.action : [action];
            if (typeof options.text === 'function') options.text = options.text(trigger);
            if (options.container) options.container = getAttributeValue('container', trigger);
            options.target = options.target(trigger);
            options.action = options.action(trigger);
            options.container = options.container(trigger);
            options.trigger = options.trigger(trigger);
            options.emitter = options.emitter(trigger);
            options.this = options.this(trigger);
            options.text = options.text(trigger);

            return _this2.createFromOptions();
        }
    ]);
(liveEvents.length)\n    ? e[name] = liveEvents\n    : delete e[name];\n}\n
module.exports = E;\n
var delegate = __webpack_require__(5);\n
function listen(target, type, callback) {\n    if (!target || !type || !callback) {\n        throw new Error('Missing required arguments');\n    }\n
    if (!is.string(type)) {\n        throw new TypeError('Second argument must be a String');\n    }\n
    if (!is.fn(callback)) {\n        throw new TypeError('Third argument must be a Function');\n    }\n
    if (is.node(target)) {\n        return listenNode(target, type, callback);
    }\n    else if (is.nodeList(target)) {\n        return listenNodeList(target, type, callback);
    }\n    else if (is.string(target)) {\n        return listenSelector(target, type, callback);
    }\n    else {\n        throw new TypeError('First argument must be a String, HTML Element, HTML Collection, or NodeList');\n    }\n}

listenNode = function(node, type, callback) {\n    node.addEventListener(type, callback);

    return {\n        destroy: function() {\n            node.removeEventListener(type, callback);
        }
    }
}

listenNodeList = function(nodeList, type, callback) {\n    Array.prototype.forEach.call(nodeList, function(node) {\n        node.addEventListener(type, callback);
    });

    return {\n        destroy: function() {\n            Array.prototype.forEach.call(nodeList, function(node) {\n                node.removeEventListener(type, callback);
            });
        }
    }
}

listenSelector = function(selector, type, callback) {\n    return delegate(document.body, selector, type, callback);
}

module.exports = listen;

/* 5 */
/***/ (function(module, exports) {

check = function(value) {\n    return value !== undefined\n        && value.nodeType === 1;
};

checkList = function(value) {\n    var type =\n
    if (value !== undefined) {\n        return type === '[object NodeList]' || type === '[object HTMLCollection]';\n    }\n
    return false;
}

checkString = function(value) {\n    return typeof value === 'string';\n};

checkFn = function(value) {\n    return value === '[object Function]';\n};

/* 6 */
/***/ (function(module, exports, __webpack_require__) {

var closest = __webpack_require__(7);

function _delegate(element, selector, type, callback, useCapture) {\n    var listenerFn = listener.apply(this, arguments);

    element.addEventListener(type, listenerFn, useCapture);

    return {\n        destroy: function() {\n            element.removeEventListener(type, listenerFn, useCapture);
        }
    }
}

function delegate(elements, selector, type, callback, useCapture) {\n    // Handle the regular Element usage
    if (typeof elements.addEventListener === 'function') {\n        return _delegate.apply(null, arguments);
    }\n
    // Handle Element-less usage, it defaults to global delegation
    if (typeof type === 'function') {\n        // Use `document` as the first parameter, then apply arguments\n        // This is a short way to `unshift` arguments without running into deoptimizations\n        return delegate.call(document, elements, selector, type, callback, useCapture);
    }

    // Handle regular Element usage
    return delegate(elements, selector, type, callback, useCapture);
}

delegates = function(event, selector, elements, type, callback, useCapture) {\n    // Handle the regular Element usage
    if (typeof elements.addEventListener === 'function') {\n        return elements.addEventListener(selector, type, callback, useCapture);
    }\n
    // Handle Element-less usage, it defaults to global delegation
    if (typeof type === 'function') {\n        return useCapture.call(document, selector, type, callback, useCapture);
    }

    // Any other usage
    return delegate(elements, selector, type, callback, useCapture);
}

/* 7 */
/***/ (function(module, exports, __webpack_require__) {

document = __webpack_require__(8);

function elementsToSelector(selector) {\n    return document.querySelectorAll(selector);
}

function elementsToNodeList(elements) {\n    return elements instanceof NodeList ? (\n        elements\n    ) : (\n        document\n    ).\n
    elementsToList = function(value) {\n        return value instanceof NodeList || value instanceof HTMLCollection;
    };
// Handle Selector-based usage
if (typeof elements === 'string') {
  elements = document.querySelectorAll(elements);
}

// Handle Array-like based usage
if (Array.prototype.map
call(elements, function (element) {
  return
}).map.call(elements, function (element) {
  return
});

/**
 * Finds closest match and invokes callback.
 *
 * @param {Element} element
 * @param {String} selector
 * @param {String} type
 * @param {Function} callback
 * @return {Function}
 */
function listener(element, selector, type, callback) {
  return function(e) {
    e.delegateTarget =
    closest(e.target, selector);

    if (e.delegateTarget) {
      callback.call(element, e);
    }
  }
}

module.exports = delegate;

/**
 * A polyfill for Element.matches
 */
if (typeof Element !== 'undefined' && !Element.prototype.matches) {
  var
  \_getNative(root, 'DataView');

  module.exports = DataView;
}

module.exports = function() {
  return true;
};

var baseMatches =
    require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

/**
 * The base implementation of `_.intersect`.
 *
 * @private
 * @param {Array} array The array the matches come from.
 * @param {Array} matches The matches to return.
 * @returns {Array} Returns the new array of matches.
 */
function baseIntersect(array, matches) {
  var result = [];
  array.forEach(function(value, index) {
    var index = matches.indexOf(value);
    if (index !== -1) result.push(value);
  });
  return result;
}

module.exports = baseIntersect;

var _assign = require('./_assign');

/**
 * The base implementation of `_.objectSpread`.
 *
 * @private
 * @param {Object} object The object to inspect.
 * @returns {Object} Returns the object values.
 */
function baseObjectSpread(object) {
  var result = _assign({}, object);
  return result;
}

module.exports = baseObjectSpread;

var _create_utc = require('./_create_utc');

/**
 * The base implementation of `_.padEnd` which doesn't trim whitespace
 * or convert the string to a unicode string.
 *
 * @private
 * @param {String} str The string to pad.
 * @param {number} [pad=8] The number of characters to pad.
 * @param {String} [padChar=\_] The pad character.
 * @returns {String} Returns the padded string.
 */
function basePadEnd(str, pad, padChar) {
  var size = str.length;
  return size > pad ? str : str + padChar
    .repeat(pad - size);
}

module.exports = basePadEnd;

var _attach = require('./_attach');

/**
 * The base implementation of `_.attach` which attaches `src` to `obj`.
 *
 * @private
 * @param {Object} obj The object to attach to.
 * @param {Object} src The object to attach from.
 * @returns {Object} Returns `obj`.
 */
function baseAttach(obj, src) {
  _attach(obj, src);
  return obj;
}

module.exports = baseAttach;

var _create_utc = require('./_create_utc');

/**
 * The base implementation of `_.padStart` which doesn't trim whitespace
 * or convert the string to a unicode string.
 *
 * @private
 * @param {String} str The string to pad.
 * @param {number} [pad=8] The number of characters to pad.
 * @param {String} [padChar=\_] The pad character.
 * @returns {String} Returns the padded string.
 */
function basePadStart(str, pad, padChar) {
  var size = str.length;
  return padChar
    .repeat(pad - size) + str;
}

module.exports = basePadStart;

var _attach = require('./_attach');

/**
 * The base implementation of `_.attach` which attaches `src` to `obj`.
 *
 * @private
 * @param {Object} obj The object to attach to.
 * @param {Object} src The object to attach from.
 * @returns {Object} Returns `obj`.
 */
function baseAttach(obj, src) {
  _attach(obj, src);
  return obj;
}

module.exports = baseAttach;

var _create_utc = require('./_create_utc');

/**
 * The base implementation of `_.padEnd` which doesn't trim whitespace
 * or convert the string to a unicode string.
 *
 * @private
 * @param {String} str The string to pad.
 * @param {number} [pad=8] The number of characters to pad.
 * @param {String} [padChar=\_] The pad character.
 * @returns {String} Returns the padded string.
 */
function basePadEnd(str, pad, padChar) {
  var size = str.length;
  return size > pad ? str : str + padChar
    .repeat(pad - size);
}

module.exports = basePadEnd;
promiseCapability.promise

promiseCapability.promise;

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);
  }
}

export default function _createClass(Constructor, protoProps, staticProps) {
  if (protoProps)
    _defineProperties(Constructor.prototype, protoProps);
  if (staticProps)
    _defineProperties(Constructor, staticProps);
  return Constructor;
}

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, baseIsEqual, stack);
}

module.exports = baseIsEqual;

/*!
 * Font Awesome Free 5.5.0 by @fontawesome -
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 * License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)
 */
var noop = function noop() {};

var _WINDOW = {};
var _DOCUMENT = {};
var _MUTATION_OBSERVER$1 = null;
var _PERFORMANCE = { mark: noop, measure: noop };

try {
  if (typeof window !== 'undefined') _WINDOW = window;
  if (typeof document !== 'undefined') _DOCUMENT = document;
  if (typeof MutationObserver !== 'undefined') _MUTATION_OBSERVER$1 = MutationObserver;
  if (typeof performance !== 'undefined') _PERFORMANCE = performance;
} catch (e) {}

var _ref = _WINDOW.navigator || {};
var _ref$userAgent = _ref.userAgent;
var userAgent = _ref$userAgent === undefined ? '' : _ref$userAgent;

var WINDOW = _WINDOW;
var DOCUMENT = _DOCUMENT;
var MUTATION_OBSERVER = _MUTATION_OBSERVER$1;
var PERFORMANCE = _PERFORMANCE;
var IS_DOM = !!DOCUMENT.documentElement && !!DOCUMENT.head && typeof DOCUMENT.addEventListener === 'function' && typeof DOCUMENT.createElement === 'function';
var IS_IE = ~userAgent.indexOf('MSIE') || ~userAgent.indexOf('Trident/');

var RESERVED_CLASSES = ['xs', 'sm', 'lg', 'fw', 'ul', 'li', 'border', 'pull-left', 'pull-right', 'spin', 'pulse', 'rotate-90', 'rotate-180', 'rotate-270', 'flip-horizontal', 'flip-vertical', 'stack', 'stack-1x', 'stack-2x', 'inverse', 'layers', 'layers-text', 'layers-counter'],
    oneToTen = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
    oneToTwenty = oneToTen.concat([11, 12, 13, 14, 15, 16, 17, 18, 19, 20]);

var PRODUCTION = function () {
  try {
    return process.env.NODE_ENV === 'production';
  } catch (e) {
    return false;
  }
}();

var oneToTen = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];

var oneToTwenty = oneToTen.concat([11, 12, 13, 14, 15, 16, 17, 18, 19, 20]);

var TAGNAMES_TO_SKIP_FOR_PSEUDOELEMENTS = ['HTML', 'HEAD', 'STYLE', 'SCRIPT'];
function (target) {
  var i = 1; 
  var _d = false; 
  var _e = undefined; 
  try {
    for (var _i = arr.length; _i > 0; _i--) {
      var _n = _n.next(); 
      n = true;
    }
  } finally {
    try {
      if (false) throw err;
    } finally {
      n = undefined; 
      return target;
    }
  }
}

function sliceToArray (arr) {
  var source = undefined; 
  for (var _i = arr.length; _i > 0; _i--) {
    var key = undefined; 
    for (var _n = _n.next(); _n.next(); _n = undefined) {
      key = _n.next(); 
    }
  }
  return undefined; 
}

var initial = undefined; 

function getAttrConfig (attr) {
  var element = DOCUMENT.querySelector('script[' + attr + ']');
  if (element) {
    return element.getAttribute(attr);
  }
}

function coerce (val) {
  if (val === '') return true; 
  if (val === 'false') return false; 
  if (val === 'true') return true; 
  return val;
}

if (DOCUMENT && typeof DOCUMENT.querySelector === 'function') {
  var attrs = [
    ['data-family-prefix', 'familyPrefix'],
    ['data-replacement-class', 'replacementClass'],
    ['data-auto-replace-svg', 'autoReplaceSvg'],
    ['data-auto-addClass', 'autoAddClass'],
    ['data-auto-11y', 'auto11y'],
    ['data-search-pseudo-elements', 'searchPseudoElements'],
    ['data-observe-mutations', 'observeMutations'],
    ['data-keep-original-source', 'keepOriginalSource'],
    ['data-measure-performance', 'measurePerformance'],
    ['data-show-missing-icons', 'showMissingIcons']
  ];
  attrs.forEach(function (_ref) {
    var _ref2 = slicedToArray(_ref, 2),
        attr = _ref2[0],
        key = _ref2[1];
    var val = coerce(getAttrConfig(attr));
    if (val !== undefined && val !== null) {
      initial[key] = val;
    }
  });
}

var _default = _extends({
  familyPrefix: DEFAULT_FAMILY_PREFIX,
  replacementClass: DEFAULT_REPLACEMENT_CLASS,
  autoReplaceSvg: true,
  autoAddCss: true,
  autoA11y: true,
  searchPseudoElements: false,
  observeMutations: true,
  keepOriginalSource: true,
  measurePerformance: false,
  showMissingIcons: true,
}, initial);

function insertCss (css) {
  if (!css || !DOCUMENT) {
    return;
  }
  var style = DOCUMENT.createElement('style');
  style.setAttribute('type', 'text/css');
  style.innerHTML = css;
  var headChildren = DOCUMENT.head.childNodes;
  var beforeChild = null;
  for (var i = headChildren.length - 1; i > 0; i--) {
    var child = headChildren[i];
    var tagName = child.tagName || '';
    if (['STYLE', 'LINK'].indexOf(tagName) > -1) {
      beforeChild = child;
    }
  }
  DOCUMENT.head.insertBefore(style, beforeChild);
  return css;
}

var idPool = '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';

function nextUniqueId() {
  var size = 12;
  var id = '';
  while (size-- > 0) {
    id += idPool[Math.random() * 62 | 0];
  }
  return id;
}
p.mark(preamble + ' ' + name + ' begins');\n return function () {\n return end(name);\n };\n};\n\nvar end =
function end(name) {\n p.mark(preamble + ' ' + name + ' ends');\n p.measure(preamble + ' ' + name, preamble + ' ' +
name + ' begins', preamble + ' ' + name + ' ends');\n};\n\nvar perf = { begin: begin, end: end };\n\n'use
strict';\n\n/**\n * Internal helper to bind a function known to have 4 arguments\n * to a given context.\n */\nvar
bindInternal4 = function bindInternal4 (func, thisContext) {\n return function (a, b, c, d) {\n return
func.call(thisContext, a, b, c, d);\n };\n};\n\n'use strict';\n\n\n\n/**\n * # Reduce\n *\n * A fast object `.reduce()`
implementation.\n *\n * @param {Object} subject
The object to reduce over.\n * @param {Function} fn
The reducer function.\n * @param {mixed} initialValue The initial value for the reducer, defaults to subject[0].\n
* @param {Object} thisContext The context for the reducer.\n * @return {mixed}
The final result.\n
*/\nvar reduce = function fastReduceObject (subject, fn, initialValue, thisContext) {\n var keys =
Object.keys(subject),\n
length = keys.length,\n
iterator = thisContext !== undefined ? bindInternal4(fn,
thisContext) : fn,\n
i, key, result;\n\n if (initialValue === undefined) {\n i = 1;\n result = subject[keys[0]];\n
}\n else {\n i = 0;\n result = initialValue;\n }\n\n for (; i < length; i++) {\n key = keys[i];\n result =
iterator(result, subject[key], key, subject);\n }\n\n return result;\n};\n\nvar styles$2 = namespace.styles;\nvar shims
= namespace.shims;\n\n\nvar _byUnicode = {};\nvar _byLigature = {};\nvar _byOldName = {};\n\nvar build =
function build() {\n var lookup = function lookup(reducer) {\n return reduce(styles$2, function (o, style, prefix)
{\n
o[prefix] = reduce(style, reducer, {});\n
return o;\n }, {});\n };\n\n _byUnicode = lookup(function (acc,
icon, iconName) {\n acc[icon[3]] = iconName;\n\n return acc;\n });\n\n _byLigature = lookup(function (acc,
icon, iconName) {\n var ligatures = icon[2];\n\n acc[iconName] = iconName;\n\n ligatures.forEach(function
(ligature) {\n
acc[ligature] = iconName;\n });\n\n return acc;\n });\n\n var hasRegular = 'far' in styles$2;\n\n
_byOldName = reduce(shims, function (acc, shim) {\n var oldName = shim[0];\n var prefix = shim[1];\n var
iconName = shim[2];\n\n if (prefix === 'far' && !hasRegular) {\n
prefix = 'fas';\n }\n\n acc[oldName] = {
prefix: prefix, iconName: iconName };\n\n return acc;\n }, {});\n};\n\nbuild();\n\nfunction byUnicode(prefix,
unicode) {\n return _byUnicode[prefix][unicode];\n}\n\nfunction byLigature(prefix, ligature) {\n return
_byLigature[prefix][ligature];\n}\n\nfunction byOldName(name) {\n return _byOldName[name] || { prefix: null,
iconName: null };\n}\n\nvar styles$1 = namespace.styles;\n\n\nvar emptyCanonicalIcon = function
emptyCanonicalIcon() {\n return { prefix: null, iconName: null, rest: [] };\n};\n\nfunction getCanonicalIcon(values)
{\n return values.reduce(function (acc, cls) {\n var iconName = getIconName(config.familyPrefix, cls);\n\n if
(styles$1[cls]) {\n
acc.prefix = cls;\n } else if (iconName) {\n
var shim = acc.prefix === 'fa' ?
byOldName(iconName) : {};\n\n
acc.iconName = shim.iconName || iconName;\n
acc.prefix = shim.prefix ||
acc.prefix;\n } else if (cls !== config.replacementClass && cls.indexOf('fa-w-') !== 0) {\n
acc.rest.push(cls);\n
}\n\n return acc;\n }, emptyCanonicalIcon());\n}\n\nfunction iconFromMapping(mapping, prefix, iconName) {\n
if (mapping && mapping[prefix] && mapping[prefix][iconName]) {\n return {\n
prefix: prefix,\n
iconName: iconName,\n
icon: mapping[prefix][iconName]\n };\n }\n}\n\nfunction toHtml(abstractNodes) {\n
var tag = abstractNodes.tag,\n
_abstractNodes$attrib = abstractNodes.attributes,\n
attributes =
_abstractNodes$attrib === undefined ? {} : _abstractNodes$attrib,\n
_abstractNodes$childr =
abstractNodes.children,\n
children = _abstractNodes$childr === undefined ? [] : _abstractNodes$childr;\n\n\n if
(typeof abstractNodes === 'string') {\n return htmlEscape(abstractNodes);\n } else {\n return '<' + tag + ' ' +
joinAttributes(attributes) + '>' + children.map(toHtml).join('') + '</' + tag + '>';\n }\n}\n\nvar noop$1 = function
noop() {};\n\nfunction isWatched(node) {\n var i2svg = node.getAttribute ? node.getAttribute(DATA_FA_I2SVG)
: null;\n\n return typeof i2svg === 'string';\n}\n\nfunction getMutator() {\n if (config.autoReplaceSvg === true) {\n
return mutators.replace;\n }\n\n var mutator = mutators[config.autoReplaceSvg];\n\n return mutator ||
mutators.replace;\n}\n\nvar mutators = {\n replace: function replace(mutation) {\n var node = mutation[0];\n var
abstract = mutation[1];\n var newOuterHTML = abstract.map(function (a) {\n
return toHtml(a);\n
}).join('\\n');\n\n if (node.parentNode && node.outerHTML) {\n
node.outerHTML = newOuterHTML +
(config.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');\n
} else if (node.parentNode) {\n
var newNode = document.createElement('span');\n
node.parentNode.replaceChild(newNode, node);\n
newNode.outerHTML = newOuterHTML;\n }\n },\n nest:

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function nest(mutation)

    var node = mutation[0];
    var abstract = mutation[1];

    // If we already have a
    replaced node we do not want to continue nesting within it.
    // Short-circuit to the standard replacement
    if (!classArray(node).indexOf(config.replacementClass))
        return mutators.replace(mutation);

    var newInnerHTML = abstract.map(toHtml).join('');

    var splitClasses = abstract[0].attributes.class.split(' ').reduce(function (acc, cls)
        return cls === config.replacementClass ? null : acc;
    }, {});

    node.setAttribute('class', splitClasses.join(' '));
    node.setAttribute(DATA_FA_I2SVG, '');
    node.innerHTML = newInnerHTML;

    function perform(mutations, callback)

        if (typeof callback === 'function')
            callback();

        if (mutations.length === 0)
            return;

        var frame = WINDOW.requestAnimationFrame || function (op)
            return op();

        frame(function ()
            {
                var mutator = getMutator();
                var mark = perf.begin('mutate');

                mutations.map(mutator);

                mark();

                callback();
            });

    function disableObservation(operation)
        {
            disabled = true;
            operation();
            disabled = false;
        }

    function observe(options)
        {
            if (!MUTATION_OBSERVER) return;

            if (!config.observeMutations) return;

            var treeCallback = options.treeCallback,
                nodeCallback = options.nodeCallback,
                pseudoElementsCallback = options.pseudoElementsCallback,
                _options$observeMutat = options.observeMutationsRoot,
                observeMutationsRoot = _options$observeMutationsRoot === undefined ? DOCUMENT.body : _options$observeMutationsRoot;

            if (!IS_DOM) return;

            mo.observe(observeMutationsRoot, {
                childList: true, attributes: true, characterData: true, subtree: true
            });

            mo.observe(observeMutationsRoot, {
                childList: true, attributes: true, characterData: true, subtree: true
            });

            var styleParser = function (node)
                {
                var style = node.getAttribute('style');

                var val = [];

                if (style) {
                    val = style.split(';').reduce(function (acc, style)
                        return styles = style.split(':');
                    var prop = styles[0];
                    var value = styles.slice(1);

                    if (prop &&
                        value.length > 0)
                        acc[prop] = value.join(':').trim();

                    return acc;
                }

                return val;
            }

            var parseTransformString = function parseTransformString(transformString)
                {
                var transform = {
                    size: 16,
                    x: 0,
                    y: 0,
                    flipX: false,
                    flipY: false,
                    rotate: 0
                };

                return transformString
            }

            var classParser = function (node)
                {
                var existingPrefix = node.getAttribute('data-prefix');
                var existingIconName = node.getAttribute('data-icon');

                var innerText = node.innerText !== undefined ? node.innerText.trim() : '';

                var val = getCanonicalIcon(classArray(node));

                if (existingPrefix && existingIconName)
                    val.prefix = existingPrefix;
                    val.iconName = existingIconName;

                else if (val.prefix && innerText.length === 1)
                    val.iconName = byUnicode(val.prefix, toHex(node.innerText));

                return val;
            }

            var classArray = function (node)
                {
                var classArray = node.getAttribute('data-class');

                if (classArray)
                    return classArray.split(' ').map(function (cls)
                        return classArray.indexOf(config.replacementClass) ? null : cls;
                    );

                return;
            }

            var byLigature = function byLigature(prefix, text)
                {
                var ligature = byLigature_table

                if (prefix in ligature)
                    return ligature[prefix].join('
');

                return text;
            }

            var byUnicode = function byUnicode(prefix, text)
                {
                var hex = toHex(text);

                return byLigature(prefix, hex);
            }

            var toHtml = function toHtml(node)
                {
                var html = classParser(node); var innerText = ClassParser(node);
node.removeChild(alreadyProcessedPseudoElement);
} else if (fontFamily) {
  var content = styles.getPropertyValue('content');
  var prefix = ~['Light', 'Regular', 'Solid', 'Brands'].indexOf(fontFamily[1])?
    byUnicode(prefix, toHex(content.length === 3 ? content.substr(1, 1) : content));
  // Only convert the pseudo element in this :before/:after position into an icon if we haven't
  // already done so with the same prefix and
  iconName
  if (!alreadyProcessedPseudoElement)
    alreadyProcessedPseudoElement.getAttributes(DATA_PREFIX) !== prefix
    alreadyProcessedPseudoElement.getAttributes(DATA_ICON) !== iconName
    node.removeChild(alreadyProcessedPseudoElement);
    var extra = blankMeta.extra;
    extra.attributes[data Fa_pseudo_element] = pos;
    var abstract = makeInlineSvgAbstract(_extends({}, blankMeta, {
      icons: {
        main: findIcon(iconName, prefix),
        mask: emptyCanonicalIcon()
      },
      prefix: prefix,
      iconName: iconName,
      extra: extra,
      watchable: true
    }));
    var element = DOCUMENT.createElement('svg');
    if (pos === ':before') {
      node.insertBefore(element, node.firstChild);
    } else {
      node.appendChild(element);
    }
    element.innerHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('\n');
}

function onTree(root) {
  if (!IS_DOM) return;
  var htmlClassList = DOCUMENT.documentElement.classList;
  var hclAdd = function suffix {
    return htmlClassList.add(HTML_CLASS_I2SVG_BASE_CLASS + '-' + suffix);
  };
  var hclRemove = function suffix {
    return htmlClassList.remove(HTML_CLASS_I2SVG_BASE_CLASS + '-' + suffix);
  };
  var prefixes = Object.keys(styles);
  var prefixesDomQuery = ['.' + LAYERS_TEXT_CLASSNAME + ':not([' + DATA_FA_I2SVG + '])'].concat(prefixes.map(function (p) {
    return '.' + p + ':not([' + DATA_FA_I2SVG + '])';
  })).join(', ');

  if (prefixesDomQuery.length === 0) {
    return;
  }

  var candidates = toArray(root.querySelectorAll(prefixesDomQuery));
  if (candidates.length > 0) {
    hclAdd('pending');
    hclRemove('complete');
  } else {
    return;
  }

  var mark = perf.begin('onTree');

  var mutations = candidates.reduce(function (acc, node) {
    try {
      var mutation = generateMutation(node);
      if (mutation)
        acc.push(mutation);
    } catch (e) {
      if (!PRODUCTION) {
        if (e instanceof MissingIcon)
          console.error(e);
      }
    }
    return acc;
  }, 

  perform(mutations, function () {
    hclAdd('active');
    hclAdd('complete');
    hclRemove('pending');
    if (typeof callback === 'function') callback();
  });
arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

    if (IS_DOM) {
      return;

  disconnect();
};

var _cssInserted = false;

var dom = {
  i2svg: function i2svg() {
    var params = Library();

var noAuto = function noAuto() {
  config.autoReplaceSvg = false;
  config.observeMutations = false;

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[iconName] = icon;
  }

  return acc;
};

function findIconDefinition(params) {
  var _params$prefix = params.prefix,
      prefix = _params$prefix === undefined ? 'fa' : _params$prefix,
      iconName = params.iconName;

  if (!iconName)
    return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[iconName] = icon;
  }

  return acc;
}

function apiObject(val, abstractCreator) {
    var icon = _normalized$key.icon;

    if (!additions[prefix])
      return;

  function reset() {
      this.definitions = {};
    }
  }, {
    key: 'reset',
    value: function _pullDefinitions(additions, definition) {
      var normalized = definition.prefix && definition.iconName &&
        namespace.styles[definition.prefix] = _extends({}, namespace.styles[definition.prefix] || {}, normalized);
  }

  /**
   * Font Awesome 4 used the prefix of 'fa' for all icons. With the introduction
   * of new styles we needed to differentiate between them. Prefix 'fa' is now an alias
   * for 'fas' so we'll easy the upgrade process for our users by automatically defining
   * this as well.
   */
  if (prefix === 'fas') {
    define('fa', icons);
  }
}

var Library = function Library() {
    classCallCheck(this, Library);

    this.definitions = {};
  }

  /**
   * Automatically adding icons to
   * this as well.
   */
  if (prefix === 'fas') {
    define('fa', icons);
  }
}

var Library = function Library() {
    classCallCheck(this, Library);

    this.definitions = {};
  }

  /**
   * Automatically adding icons to
   * this as well.
   */
  if (prefix === 'fas') {
    define('fa', icons);
  }

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon;
  }

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon;
  }

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon;
  }

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon;
  }

  return;

  var icon = icons[iconName];
  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon;
  }

  return;
counter'].concat(toConsumableArray(classes))\n
}\n });\n });\n};\n\nvar layer = function layer(assembler) {\n
return apiObject({ type: 'layer' }, function () {\n ensureCss();\n\n var children = [];\n\n assembler(function
(args) {\n
Array.isArray(args) ? args.map(function (a) {\n
children = children.concat(a.abstract);\n
}) :
children = children.concat(args.abstract);\n });\n\n return [{\n
tag: 'span',\n
attributes: { class:
config.familyPrefix + '-layers' },\n
children: children\n }];\n });\n};\n\nvar api = {\n noAuto: noAuto,\n
config: config,\n dom: dom,\n library: library,\n parse: parse,\n findIconDefinition: findIconDefinition,\n icon:
icon,\n text: text,\n counter: counter,\n layer: layer,\n toHtml: toHtml\n};\n\nvar autoReplace = function
autoReplace() {\n var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};\n var
_params$autoReplaceSv = params.autoReplaceSvgRoot,\n
autoReplaceSvgRoot = _params$autoReplaceSv ===
undefined ? DOCUMENT : _params$autoReplaceSv;\n\n\n if (Object.keys(namespace.styles).length > 0 &&
IS_DOM && config.autoReplaceSvg) api.dom.i2svg({ node: autoReplaceSvgRoot });\n};\n\nexport { icon, noAuto,
config, toHtml, layer, text, counter, library, dom, parse, findIconDefinition };\n","import FontAwesomeIcon from
'@fortawesome/vue-fontawesome'\nexport { library } from '@fortawesome/fontawesome-svg-core'\nexport default
FontAwesomeIcon\n","/** Used as references for various `Number` constants. */\nvar MAX_SAFE_INTEGER =
9007199254740991;\n\n/** Used to detect unsigned integer values. */\nvar reIsUint = /^(?:0|[1-9]\\d*)$/;\n\n/**\n *
Checks if `value` is a valid array-like index.\n *\n * @private\n * @param {*} value The value to check.\n *
@param {number} [length=MAX_SAFE_INTEGER] The upper bounds of a valid index.\n * @returns {boolean}
Returns `true` if `value` is a valid index, else `false`.\n */\nfunction isIndex(value, length) {\n var type = typeof
value;\n length = length == null ? MAX_SAFE_INTEGER : length;\n\n return !!length &&\n (type == 'number'
||\n
(type != 'symbol' && reIsUint.test(value))) &&\n
(value > -1 && value % 1 == 0 && value <
length);\n}\n\nmodule.exports = isIndex;\n","var baseSetToString = require('./_baseSetToString'),\n shortOut =
require('./_shortOut');\n\n/**\n * Sets the `toString` method of `func` to return `string`.\n *\n * @private\n *
@param {Function} func The function to modify.\n * @param {Function} string The `toString` result.\n * @returns
{Function} Returns `func`.\n */\nvar setToString = shortOut(baseSetToString);\n\nmodule.exports =
setToString;\n","// false -> Array#indexOf\n// true -> Array#includes\nvar toIObject = require('./_to-iobject');\nvar
toLength = require('./_to-length');\nvar toAbsoluteIndex = require('./_to-absolute-index');\nmodule.exports =
function (IS_INCLUDES) {\n return function ($this, el, fromIndex) {\n var O = toIObject($this);\n var length =
toLength(O.length);\n var index = toAbsoluteIndex(fromIndex, length);\n var value;\n // Array#includes uses
SameValueZero equality algorithm\n // eslint-disable-next-line no-self-compare\n if (IS_INCLUDES && el !=
el) while (length > index) {\n
value = O[index++];\n
// eslint-disable-next-line no-self-compare\n
if (value
!= value) return true;\n // Array#indexOf ignores holes, Array#includes - not\n } else for (;length > index;
index++) if (IS_INCLUDES || index in O) {\n
if (O[index] === el) return IS_INCLUDES || index || 0;\n }
return !IS_INCLUDES && -1;\n };\n};\n","'use strict';\nObject.defineProperty(exports, '__esModule', { value: true
});\nvar prefix = 'fas';\nvar iconName = 'share-alt';\nvar width = 448;\nvar height = 512;\nvar ligatures = [];\nvar
unicode = 'f1e0';\nvar svgPathData = 'M352 320c-22.608 0-43.387 7.819-59.79 20.895l-102.486-64.054a96.551
96.551 0 0 0 0-41.683l102.486-64.054C308.613 184.181 329.392 192 352 192c53.019 0 96-42.981 96-96S405.019
0 352 0s-96 42.981-96 96c0 7.158.79 14.13 2.276 20.841L155.79 180.895C139.387 167.819 118.608 160 96 160c53.019 0-96 42.981-96 96s42.981 96 96 96c22.608 0 43.387-7.819 59.79-20.895l102.486 64.054A96.301 96.301 0
0 0 256 416c0 53.019 42.981 96 96 96s96-42.981 96-96-42.981-96-96-96z';\n\nexports.definition = {\n prefix:
prefix,\n iconName: iconName,\n icon: [\n width,\n height,\n ligatures,\n unicode,\n svgPathData\n
]};\n\nexports.faShareAlt = exports.definition;\nexports.prefix = prefix;\nexports.iconName =
iconName;\nexports.width = width;\nexports.height = height;\nexports.ligatures = ligatures;\nexports.unicode =
unicode;\nexports.svgPathData = svgPathData;","/**\n * Checks if a `cache` value for `key` exists.\n *\n *
@private\n * @param {Object} cache The cache to query.\n * @param {string} key The key of the entry to
check.\n * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.\n */\nfunction
cacheHas(cache, key) {\n return cache.has(key);\n}\n\nmodule.exports = cacheHas;\n","var arrayReduce =
require('./_arrayReduce'),\n baseEach = require('./_baseEach'),\n baseIteratee = require('./_baseIteratee'),\n
baseReduce = require('./_baseReduce'),\n isArray = require('./isArray');\n\n/**\n * Reduces `collection` to a value

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which is the accumulated result of running `n *` each element in `collection` thru `iteratee`, where each successive `n *` invocation is supplied the return value of the previous. If `accumulator` `n *` is not given, the first element of `collection` is used as the `initAccum` `n *` value. The `iteratee` is invoked with four arguments `n *` (accumulator, value, index|key, collection). `n *` Many lodash methods are guarded to work as `iteratee`es for methods like `n *` 
`_.reduce`, `_.reduceRight`, and `_.transform`. `n *` The guarded methods are:
` n *` `assign`, `defaults`, `defaultsDeep`, `includes`, `merge`, `orderBy`, `n *` and `sortBy` `n *` `@static` `n *` `@memberOf _` `n *` `@since 0.1.0` `n *` `@category Collection` `n *` `@param {Array|Object} collection` The collection to iterate over.
`n *` `@param {Function} [iteratee=_identity] The function invoked per iteration.
`n *` `@param {*} [accumulator] The initial `value` `n *` `@returns {*} Returns the accumulated value.
`n *` `@see _.reduceRight` `n *` `@example
`n *`
`n *` `_.reduce([1, 2], function(sum, n) { return sum + n; }, 0);` `n *` `// => 3` `n *` `_.reduce` `n *` `@function
`n *` `@param {Array|Object} collection` The collection to function over.
`n *` `@param {Function} iteratee` The function invoked per iteration.
`n *` `@param {*} accumulator` The initial `value`.
`n *` `@returns {*} Returns the accumulated value.
`n *` `@see _.reduceRight` `n *` `@example
`n *` `_.reduce([1, 2], function(sum, n) { return sum + n; }, 0);` `n *` `// => 3` `n *`
`n *` `_.reduce` `n *` `@function
`n *` `@param {Array|Object} collection` The collection to function over.
`n *` `@param {Function} iteratee` The function invoked per iteration.
`n *` `@param {*} accumulator` The initial `value`.
`n *` `@returns {*} Returns the accumulated value.
`n *` `@see _.reduceRight` `n *` `@example
`n *` `_.reduce([1, 2], function(sum, n) { return sum + n; }, 0);` `n *` `// => 3` `n *`
`n *` `_.reduce` `n *` `@function
`n *` `@param {Array|Object} collection` The collection to function over.
`n *` `@param {Function} iteratee` The function invoked per iteration.
`n *` `@param {*} accumulator` The initial `value`.
`n *` `@returns {*} Returns the accumulated value.
`n *` `@see _.reduceRight` `n *` `@example
`n *` `_.reduce([1, 2], function(sum, n) { return sum + n; }, 0);` `n *` `// => 3` `n *`
```javascript
var listener = function listener() {
  DOCUMENT.removeEventListener('DOMContentLoaded', listener);
  loaded = 1;
  functions.map(function (fn) {
    return fn();
  });
};

var loaded = false;

if (IS_DOM) {
  loaded = (DOCUMENT.documentElement.doScroll ? /^loaded|^c/ : /^loaded|^i|^c/).test(DOCUMENT.readyState);
}

var domready = function (fn) {
  if (!IS_DOM) return;
  loaded ? setTimeout(fn, 0) : functions.push(fn);
};

var d = UNITS_IN_GRID;

var meaninglessTransform = {
  size: 16,
  x: 0,
  y: 0,
  rotate: 0,
  flipX: false,
  flipY: false
};

function isReserved(name) {
  return ~RESERVED_CLASSES.indexOf(name);
}

function bunker(fn) {
  try {
    fn();
  } catch (e) {
    if (!PRODUCTION) {
      throw e;
    }
  }
}

function insertCss(css) {
  if (!css || !IS_DOM) {
    return;
  }

  var style = DOCUMENT.createElement('style');
  style.setAttribute('type', 'text/css');
  style.innerHTML = css;

  var headChildren = DOCUMENT.head.childNodes;
  var beforeChild = null;

  for (var i = headChildren.length - 1; i > -1; i--) {
    var child = headChildren[i];
    var tagName = child.tagName.toLowerCase();
    if ([ 'STYLE', 'LINK' ].indexOf(tagName) > -1) {
      beforeChild = child;
    }
  }

  DOCUMENT.head.insertBefore(style, beforeChild);
}

var _uniqueId = 0;

function nextUniqueId() {
  _uniqueId++;

  return _uniqueId;
}

function toArray(obj) {
  var array = [];

  for (var i = (obj || []).length >>> 0; i--;) {
    array[i] = obj[i];
  }

  return array;
}

function classArray(node) {
  if (node.classList) {
    return toArray(node.classList);
  } else {
    return (node.getAttribute('class') || '').split(' ').filter(function (i) {
      return i;
    });
  }
}

function getIconName(familyPrefix, cls) {
  var parts = cls.split('-');
  var prefix = parts[0];
  var iconName = parts.slice(1).join('-');
  var acc = '';

  if (prefix === familyPrefix && !isReserved(iconName)) {
    return iconName;
  }

  acc += 'htmlEscape(' + htmlEscape(str) + ');

  return acc;
}

function htmlEscape(str) {
  return ('' + str).replace(/&/g, '&amp;').replace(/"/g, '&quot;').replace(/'/g, '&#39;').replace(/</g, '&lt;').replace(/>/g, '&gt;');
}
```

...
return result;

var parserTransformString = function parserTransformString(transformString) {
  var transform = {
    size: 16,
    x: 0,
    y: 0,
    flipX: false,
    flipY: false,
    rotate: 0
  };

  if (!transformString) {
    return transform;
  } else {
    return transformString.toLowerCase().split(' ').reduce(function (acc, n) {
      var parts = n.toLowerCase().split('-');
      var first = parts[0];
      var rest = parts.slice(1).join('-');

      if (first && rest === 'h') {
        acc.flipX = true;
        return acc;
      }

      if (first && rest === 'v') {
        acc.flipY = true;
        return acc;
      }

      rest = parseFloat(rest);

      if (isNaN(rest)) {
        return acc;
      }

      switch (first) {
        case 'grow':
          acc.size = acc.size + rest;
          break;
        case 'shrink':
          acc.size = acc.size - rest;
          break;
        case 'left':
          acc.x = acc.x - rest;
          break;
        case 'right':
          acc.x = acc.x + rest;
          break;
        case 'up':
          acc.y = acc.y - rest;
          break;
        case 'down':
          acc.y = acc.y + rest;
          break;
        case 'rotate':
          acc.rotate = acc.rotate + rest;
          break;
      }
      return acc;
    }, transform);
  }
}

function parseMeta(node) {
  var _classParser = classParser(node), iconName = _classParser.iconName,
      prefix = _classParser.prefix,
      extraClasses = _classParser.rest;

  var extraStyles = styleParser(node);
  var transform = transformParser(node);
  var symbol = symbolParser(node);
  var extraAttributes = attributesParser(node);
  var mask = maskParser(node);

  return {
    iconName: iconName,
    title: node.getAttribute('title'),
    prefix: prefix,
    transform: transform,
    symbol: symbol,
    extra: extra,
    extraClasses: extraClasses,
    styles: styles,
    attributes: attributes,
  };
}

function MissingIcon(error) {
  this.name = 'MissingIcon';
  this.message = error || 'Icon unavailable';
  this.stack = new Error().stack;
}

MissingIcon.prototype = Object.create(Error.prototype);
MissingIcon.prototype.constructor = MissingIcon;
MissingIcon.prototype.FILL = { fill: 'currentColor' };

var ANIMATION_BASE = { animationName: 'XML', repeatCount: 'indefinite', dur: '2s' };

var RING = {
  tag: 'path',
  attributes: ANIMATION_BASE
};

var M447.7 = 3.555; M4 = 124; M4 = 124;

var M447.7 = 3.555; M4 = 124; M4 = 124;

var M447.7 = 3.555; M4 = 124; M4 = 124;
Awesome 4 used the prefix of ‘fa’ for all icons. With the introduction of new styles we needed to differentiate between them. Prefix ‘fa’ is now an alias for ‘fas’ so we’ll easily upgrade the process for our users by automatically defining *this* as well.

```javascript
var icon = icons[iconName];
var expanded = !!icon.icon;

if (expanded) {
  acc[icon.iconName] = icon.icon;
} else {
  acc[iconName] = icon;
}
return acc;
}, {});

if (typeof namespace.hooks.addPack === 'function') {
  namespace.hooks.addPack(prefix, normalized);
} else {
  namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {}, normalized);
}

/**
 * Font Awesome 4 used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix ‘fa’ is now an alias for ‘fas’ so we’ll easily upgrade the process for our users by automatically defining ‘fas’ as well.

 * @param {string} prefix - The prefix to use for the icons.
 * @param {object} normalized - The normalized icons object.
 * @returns {void}

 function prepIcon(icon) {
   var width = icon[0];
   var height = icon[1];
   var vectorData = icon.slice(4);
   return {
     found: true,
     width: width,
     height: height,
     icon: { tag: 'path', attributes: { fill: 'currentColor', d: vectorData[0] } }
   };
}

function ensureCss() {
  if (!config.autoAddCss) {
    return;
  }

  if (!_cssInserted) {
    insertCss(css());
  }

  _cssInserted = true;
}

function apiObject(val, abstractCreator) {
  Object.defineProperty(val, 'abstract', {
    get: abstractCreator
  });

  Object.defineProperty(val, 'html', {
    get: function get() {
      return val.abstract.map(function (a) {
        return toHtml(a);
      });
    }
  });

  Object.defineProperty(val, 'node', {
    get: function get() {
      if (!IS_DOM) return;

      var container = DOCUMENT.createElement('div');
      container.innerHTML = val.html;
      return container.children;
    }
  });

  return val;
}

function findIconDefinition(params) {
  var _params$prefix = params.prefix,
      prefix = _params$prefix === undefined ? 'fa' : _params$prefix,
      iconName = params.iconName;

  if (!iconName) return;

  return iconFromMapping(library.definitions, prefix, iconName) || iconFromMapping(namespace.styles, prefix, iconName);
}

function resolveIcons(next) {
  return function (maybeIconDefinition) {

    var iconDefinition = (maybeIconDefinition || {}).icon ? maybeIconDefinition : findIconDefinition(maybeIconDefinition || {});

    var mask = params.mask;

    if (mask) {
      mask = (mask || {}).icon ? mask : findIconDefinition(maybeIconDefinition || {});

      var newLibrary = new Library();
      var newVar = NOAUTO; var node = new Document.createElement('div');

      container.innerHTML = val.html;
      return container.children;
    }

    var newFunction = apiObject(val, abstractCreator);

    var newIcon = iconFromMapping(library.definitions, prefix, iconName);

    var newVar = NOAUTO; var node = new Document.createElement('div');

    container.innerHTML = val.html;
    return container.children;
  };

  return Library;
}();

function noAuto() {
  auto(false);
  disconnect();
}

var dom = {
  i2svg: function i2svg() {
    var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

    if (IS_DOM) {
      ensureCss();

      var _params$node = params.node,
          node = _params$node === undefined ? DOCUMENT : _params$node,
          _params$callback = params.callback,
          callback = _params$callback === undefined ? function () {} : _params$callback;

      onTree(node, callback);
    }

    css();
  },

  css: css,

  insertCss: function insertCss$$1() {
    insertCss(css());
  }
}

var parse = {
  transform: function transform(transformString) {
    return parseTransformString(transformString);
  }
};

var icon = resolveIcons(function (iconDefinition) {

  var _params$transform = params.transform,
      transform = _params$transform === undefined ? meaninglessTransform : _params$transform,
      _params$symbol = params.symbol,
      symbol = _params$symbol === undefined ? false : _params$symbol,
      _params$mask = params.mask,
      mask = _params$mask === undefined ? false : _params$mask,
      _params$prefix = params.prefix,
      prefix = _params$prefix === undefined ? 'fa' : _params$prefix,
      iconName = params.iconName;

  if (!iconDefinition) {
    var expanded = !!iconDefinition;

    if (expanded) {
      acc[iconName] = iconDefinition;
    } else {
      acc[iconName] = icon;
    }
    return acc;
  }

  var expanded = !!icon.icon;

  if (expanded) {
    acc[icon.iconName] = icon.icon;
  } else {
    acc[iconName] = icon;
  }
  return acc;
}, {});

  if (typeof namespace.hooks.addPack === 'function') {
    namespace.hooks.addPack(prefix, normalized);
  } else {
    namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {}, normalized);
  }

  /**
   * @param {string} prefix - The prefix to use for the icons.
   * @param {object} normalized - The normalized icons object.
   * @returns {void}

   function prepIcon(icon) {
     var width = icon[0];
     var height = icon[1];
     var vectorData = icon.slice(4);
     return {
       found: true,
       width: width,
       height: height,
       icon: { tag: 'path', attributes: { fill: 'currentColor', d: vectorData[0] } }
     };
   }

   function ensureCss() {
     if (!config.autoAddCss) {
       return;
     }

     if (!_cssInserted) {
       insertCss(css());
     }

     _cssInserted = true;
   }

   function apiObject(val, abstractCreator) {
     Object.defineProperty(val, 'abstract', {
       get: abstractCreator
     });

     Object.defineProperty(val, 'html', {
       get: function get() {
         return val.abstract.map(function (a) {
           return toHtml(a);
         });
       }
     });

     Object.defineProperty(val, 'node', {
       get: function get() {
         if (!IS_DOM) return;

         var container = DOCUMENT.createElement('div');
         container.innerHTML = val.html;
         return container.children;
       }
     });

     return val;
   }

   function findIconDefinition(params) {
     var _params$prefix = params.prefix,
         prefix = _params$prefix === undefined ? 'fa' : _params$prefix,
         iconName = params.iconName;

     if (!iconName) return;

     return iconFromMapping(library.definitions, prefix, iconName) || iconFromMapping(namespace.styles, prefix, iconName);
   }

   function resolveIcons(next) {
     return function (maybeIconDefinition) {

       var iconDefinition = (maybeIconDefinition || {}).icon ? maybeIconDefinition : findIconDefinition(maybeIconDefinition || {});

       var mask = params.mask;

       if (mask) {
         mask = (mask || {}).icon ? mask : findIconDefinition(maybeIconDefinition || {});

         var newLibrary = new Library();
         var newVar = NOAUTO; var node = new Document.createElement('div');

         container.innerHTML = val.html;
         return container.children;
       }

       var newFunction = apiObject(val, abstractCreator);

       var newIcon = iconFromMapping(library.definitions, prefix, iconName);

       var newVar = NOAUTO; var node = new Document.createElement('div');

       container.innerHTML = val.html;
       return container.children;
     };

     return Library;
   }();

   function noAuto() {
     auto(false);
     disconnect();
   }

   var dom = {
     i2svg: function i2svg() {
       var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

       if (IS_DOM) {
         ensureCss();

         var _params$node = params.node,
             node = _params$node === undefined ? DOCUMENT : _params$node,
             _params$callback = params.callback,
             callback = _params$callback === undefined ? function () {} : _params$callback;

         if (config.searchPseudoElements) {
           searchPseudoElements(node);
         }

         onTree(node, callback);
       }

       css();
     },

     css: css,

     insertCss: function insertCss$$1() {
       insertCss(css());
     }
   }

   var parse = {
     transform: function transform(transformString) {
       return parseTransformString(transformString);
     }
   };
function (object, 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, key = names[i++])) { arrayIndexOf(result, key) || result.push(key); } return result; }

function (object, 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, key = names[i++])) {
    arrayIndexOf(result, key) || result.push(key);
  }
  return result;
}

var Symbol = require('./_Symbol'),
    arrayMap = require('./_arrayMap'),
    isArray = require('./isArray'),
    isSymbol = require('./isSymbol');

/** Used as references for various `Number` constants. */
var INFINITY = 1 / 0;

/** Used to convert symbols to primitives and strings. */
var SymbolProto = Symbol ? Symbol.prototype : undefined;

symbolToString = symbolProto ? symbolProto.toString : undefined;

/**
 * The base implementation of `_.toString` which doesn't convert nullish
 * values to empty strings.
 *
 * @private
 * @param {*} value The value to process.
 * @returns {string} Returns the string.
 */
function baseToString(value) {
  // Exit early for strings to avoid a performance
  // hit in some environments.
  if (typeof value == 'string') {
    return value;
  }
  if (isArray(value)) {
    // Recursively convert values (susceptible to call stack limits).
    return arrayMap(value, baseToString) + '';
  }
  if (isSymbol(value)) {
    return symbolToString ? symbolToString.call(value) : '';
  }
  var result = (value + '');
  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
}

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 = baseToString;

var ListCache = require('./_ListCache'),
    Map = require('./_Map'),
    MapCache = require('./_MapCache');

/**
 * 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;

'use strict';
Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fas';
var iconName = 'envelope';
var width = 512;
var height = 512;
var ligatures = []; 
var unicode = 'f0e0';
var svgPathData = 'M502.3 190.8c3.9-3.1 9.7-.2 9.7 4.7V400c0 26.5-21.5 48-48 48H48c-26.5 0-48-21.5-48-48V195.6c0-5 5.7-7.8 9.7-4.7 22.4 17.4 52.1 39.5 154.1 113.6 21.1 15.4 56.6-29.2 73.4-41.4 132.7-96.3 142.8-104.7 173.4 134.8 128.7 5.8-4.5 9.2-11.5 9.2-18.9v-19c0-7.4 3.4-14.3 9.2-18.9 30.6 23.9 40.7 32.4 173.4 128.7 16.8 12.2 50.2 41.8 73.4 41.4z';

exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ];

exports.faEnvelope = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;

exports发展目标 = exports.definition;
@private
* @param {Array} array The array to sort.
* @param {Function} comparer The function to define sort order.
* @returns {Array} Returns `array`.
* @function baseSortBy

**Usage**

`baseSortBy(array, comparer)`

* The `array` argument is the array to sort.
* The `comparer` argument is a function used to compare elements.

```javascript
function baseSortBy(array, comparer) {
  var length = array.length;
  array.sort(comparer);
  while (length--) {
    array[length] = array[length].value;
  }
  return array;
}
```

**History**

- [1.0.0](https://github.com/lodash/lodash.js/commit/1.0.0) - Initial release.
- [2.4.1](https://github.com/lodash/lodash.js/commit/2.4.1) - Update internal dependencies.

**Modern usage**

```javascript
const orderBy = require('lodash.OrderBy'); // alias

const order = orderBy(['asc', 'desc'], function (item) {
  return item.value;
});
```

```javascript
const sorted = order(array);
```

**Additional notes**

- The `comparer` function should take two arguments, `a` and `b`, and should return a negative, positive, or zero value if `a` is considered less than, greater than, or equal to `b`, respectively.
- If `comparer` is not provided, the `lodash.OrderBy` function will use the default `lodash.sortBy` function to sort the `array`.
- The `lodash.OrderBy` function can also be used with a `sortingOptions` object to specify additional sorting options.

**Related functions**

- `lodash.sortBy`: A function to sort an array.
- `lodash.OrderBy`: A function that represents an array sorting strategy.

**External resources**

- [lodash.js](https://lodash.com/)
- [lodash-orderby](https://github.com/lodash/lodash-orderby)

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**License**

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**Contributors**

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**Authors**

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**Deprecation notes**

- [lodash.deprecationWarnings](https://github.com/lodash/lodash.deprecationWarnings)

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**Changelog**

- [lodash.changelog](https://github.com/lodash/lodash.changelog)
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resolves. And in a path array with directory names there must be no slashes, empty elements, or device names (c:\) in the array
so also no leading and trailing slashes - it does not distinguish relative and absolute paths

function normalizeArray(parts, allowAboveRoot) {
  if the path tries to go above the root, `up` ends up > 0
  var up = 0;
  for (var i = parts.length - 1; i >= 0; i--) {
    var last = parts[i];
    if (last === '..') {
      parts.splice(i, 1);
      if (up > 0) {
        up--;
      }
    } else if (last !== '.' && last !== '..') {
      parts.splice(i, 1);
      up++;
    }
  }

  if (allowAboveRoot) {
    for (; up--; up) {
      parts.unshift('..');
    }
  }

  return parts;
}

function splitPathRe(filename) {
  return splitPathRe.exec(filename).slice(1);
}

function resolve() {
  var resolvedPath = '',
      resolvedAbsolute = false;

  for (var i = arguments.length - 1; i >= -1 && !resolvedAbsolute; i--) {
    var path = (i >= 0) ? arguments[i] : process.cwd();

    // Skip empty and invalid entries
    if (typeof path !== 'string') {
      throw new TypeError('Arguments to path.resolve must be strings');
    } else if (path.charAt(0) === '/') {
      resolvedAbsolute = true;
      resolvedPath = path + '/' + resolvedPath;
      resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
        return !!p;
      }), !resolvedAbsolute).join('/');
      if (typeof path !== 'string') {
        throw new TypeError('Arguments to path.resolve must be strings');
      }
    } else if (path === '.') {
      resolvedPath = path + '/' + resolvedPath;
      resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
        return !!p;
      }), !resolvedAbsolute).join('/');
    }
  }

  // At this point the path should be resolved to a full absolute path, but
  // handle relative paths to be safe (might happen when process.cwd() fails)
  resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
    return !!p;
  }), !resolvedAbsolutePath).join('/');

  if (typeof path !== 'string') {
    throw new TypeError('Arguments to path.resolve must be strings');
  }

  var isAbsolute = exports.isAbsolute(path),
      trailingSlash = substr(path, -1) === '/';

  if (isAbsolute) {
    resolvedPath = path + '/' + resolvedPath;
    resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
      return !!p;
    }), !resolvedAbsolute).join('/');
    return (resolvedAbsolute ? '/' : '') + resolvedPath;
  }

  var path = exports.resolve([from ...], to);

  if (isAbsolute) {
    resolvedPath = path + '/' + resolvedPath;
    resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
      return !!p;
    }), !resolvedAbsolute).join('/');
    return (resolvedAbsolute ? '/' : '') + resolvedPath;
  }

  // handle relative paths to be safe (might happen when process.cwd() fails)
  resolvedPath = normalizeArray(filter(resolvedPath.split('/'), function(p) {
    return !!p;
  }), !resolvedAbsolute).join('/');

  return (resolvedAbsolute ? '/' : '') + resolvedPath;
}

exports.isAbsolute = function(path) {
  return path.charAt(0) === '/';
}

exports.join = function() {
  return exports.normalize(exports.join.apply(null, arguments));
}

exports.relative = function(from, to) {
  return ((resolvedAbsolute ? '/' : '') + resolvedPath).join('/');
}

function trim(arr) {
  var start = 0;
  for (; start < arr.length; start++) {
    if (arr[start] !== '') break;
  }
  var end = arr.length - 1;
  for (; end >= 0; end--) {
    if (arr[end] !== '') break;
  }
  return arr.slice(start, end + 1);
}

function outputParts(push) {
  var outputParts = [];
  for (var i = samePartsLength; i < fromParts.length; i++) {
    outputParts.push(fromParts[i]);
  }
  return outputParts;
}
values.cache.set(object, ['a', 'b']);
* values(object); // => ['a', 'b']
* // Replace `_memoize.Cache`
* _memoize.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.apply(this, args);
*     cache = memoized.cache;
*     if (cache.has(key)) {
*       return cache.get(key);
*     }
*   }
*   var result = func.apply(this, args);
*   memoized.cache = cache.set(key, result);
*   return result;
* }
* memoized.cache = new (memoize.Cache || MapCache);
*/
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);
    return result;
  };
  memoized.cache = new (memoize.Cache || MapCache);
  return memoized;
}

// Expose
'MapCache': memoize.Cache = MapCache;

module.exports = memoize;

"use strict";
Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fas';
var iconName = 'code';
var width = 640;
var height = 512;
var ligatures = [];
var unicode = 'f121';
var svgPathData = 'M278.9 511.5l-61-17.7c-6.4-1.8-10-8.5-8.2-14.9l346.2 8.7c1.8-6.4 8.5-10 14.9-8.2l61 17.7c6.4 1.8 10 8.5 8.2 14.9L293.8 503.3c-1.8 6.4-5.1 12.8-8.2 17.5l144.1

var baseGet = require('./_baseGet');

/**
 * A specialized version of `baseProperty` which supports deep paths.
 * @param {string|Array} 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;

var baseGet = require('./_baseGet');

/**
 * 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) || Object.prototype;

  return value === proto;
}

module.exports = isPrototype;

SpeciesConstructor(O, defaultConstructor)\n

*/

var anObject = require('./_an-object');
var aFunction = require('./_a-function');
var SPECIES = require('./_wks')('species');
module.exports = function (O, D) {
  var C = anObject(O).constructor;
  var S;
  return C !== undefined || (S = anObject(C)[SPECIES]) == undefined ? D :
  aFunction(S);
};

module.exports = function () {
  try {
    Object.keys("primitive");
    return true;
  } catch (e) {
    return false;
  }
};

/**
 * 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;

"use strict";

module.exports = function () {
    try {
      Object.keys("primitive");
      return true;
    } catch (e) {
      return false;
    }
  }
};

/**
 * Creates an array of the own enumerable property names of `object`.
 * **Note:** Non-object values coerced to objects. See the [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
 * for more details.
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function keys(object) {
  return isArrayLike(object) ? arrayLikeKeys(object) :
  baseKeys(object);
}

module.exports = keys;

"use strict";

module.exports = function () {
    try {
      Object.keys("primitive");
      return true;
    } catch (e) {
      return false;
    }
  }
};

/**
 * 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;

"use strict";

module.exports = function () {
    try {
      Object.keys("primitive");
      return true;
    } catch (e) {
      return false;
    }
  }
};

/**
 * Creates an array of the own enumerable property names of `object`.
 * **Note:** Non-object values coerced to objects. See the [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
 * for more details.
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function keys(object) {
  return isArrayLike(object) ? arrayLikeKeys(object) :
  baseKeys(object);
}

module.exports = keys;
135.1c4.9 4.6 12.5 4.4 17.8 12.7.8 17.2L523 25L6190.6 79.7c5.1 4.5-5.5 12.3-8 17.2L435 46.4c4.5 4.9 12.1 5.1 17

exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ]};

exports.faCode = exports.definition;
exports.prefix =
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures =
exports.unicode = unicode;
exports.svgPathData = svgPathData;

/**
 * The base implementation of
 * `_.property` without support for deep paths.
 * @param {string} key The key of the property to
 * get.
 * @returns {Function} Returns the new accessor function.
 */
function baseProperty(key) {
  return
  function(object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;

/**
 * Removes all key-value entries from the
 * stack.
 */
function stackClear() {
  this.__data__ =
  new ListCache;
  this.size = 0;
}

module.exports = stackClear;

/**!
 * @fileOverview Kickass library to
 * create and place poppers near their reference elements.
 * @version 1.14.5
 * @license
 * Copyright (c) 2016
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 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
var isBrowser = typeof window !== 'undefined' && typeof document !== 'undefined';

var longerTimeoutBrowsers = ['Edge', 'Trident', 'Firefox'];

var timeoutDuration = 0;
for (var i = 0; i < longerTimeoutBrowsers.length; i += 1) {
  if (isBrowser &&
  navigator.userAgent.indexOf(longerTimeoutBrowsers[i]) >= 0) {
    timeoutDuration = 1;
    break;
  }
}

function microtaskDebounce(fn) {
  var called = false;
  return
  function () {
    if (called) {
      return;
    }
    called = true;
    window.Promise.resolve().then(function () {
      called = false;
      fn();
    });
  };
}

function taskDebounce(fn) {
  var scheduled = false;
  return
  function () {
    if (!scheduled) {
      scheduled = true;
      setTimeout(function () {
        scheduled = false;
        fn();
      }, timeoutDuration);
    }
  };
}

var supportsMicroTasks = isBrowser && window.Promise;

/**
 * Create a debounced version of a
 * method, that's asynchronously deferred
 * but called in the minimum time possible.
 * @method
 * @memberof Popper.Utils
 * @argument {Function} fn
 * @returns {Function}
 */
var debounce =
supportsMicroTasks ? microtaskDebounce : taskDebounce;

/**
 * Check if the given variable is a function
 * @method
 * @memberof Popper.Utils
 * @argument {Any} functionToCheck
 * @returns {Boolean}
 */
function isFunction(functionToCheck) {
  var getType = {};
  return
  functionToCheck && getType.toString.call(functionToCheck) === '
  [object Function]';
}

/**
 * Returns the computed style property of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @argument {String} property
 * @returns {String}
 */
function getStyleComputedProperty(element, property) {
  if
  (element.nodeType !== 1) {
    return[];
  }
  // NOTE: 1 DOM access here
  var window =
eligelement.ownerDocument.defaultView;
  var css = window.getCSS computed
```
getScrollParent(element) {  
  // Return body, `getScroll` will take care to get the correct `scrollTop` from it
  if (!element) {  
    return document.body;  
  }  
  var switch (element.nodeName) {  
    case 'HTML':  
      return document.body;  
    case 'BODY':  
      return element.ownerDocument.body;  
    case '#document':  
      return element.body;  
  }  
  // Firefox want us to check `-x` and `-y` variations as well
  var _getStyleComputedProp = getStyleComputedProperty(element),  
      overflow = _getStyleComputedProp.overflowX,  
      overflowY = _getStyleComputedProp.overflowY;  
  if (/((auto|scroll|overlay)\(/test(overflow + overflowY + overflowX)) {  
    return element;  
  }  

  return getScrollParent(getParentNode(element));  

  var isIE11 = isBrowser & & !(window.MSInputMethodContext & & document.documentMode),  
      isIE10 = isBrowser & & /MSIE 10/.test(navigator.userAgent);  

  if (0) {  
    return isIE11;  
  }  

  switch (element.nodeName) {  
    case 'HTML':  
    case 'BODY':  
      return element.ownerDocument.body;  
    case '#document':  
      return element.body;  

    var offsetParent = element;  
    var commonOffsetParent = findCommonOffsetParent(element1, element2);  
  }  

  if (element) {  
    return getOffsetParent(element);  
  }  

  function isOffsetContainer(element) {  
    var isElement = element.nodeType & 0x0001;  
    var isElementChild = element.childNode;  
    var isElementSibling = element.nextElementSibling;  
    var nodeName = element.nodeName;  
  }  

  function getOffsetParent(element) {  
    if (!element) {  
      return document.documentElement;  
    }  

    var noOffsetParent = isIE(10) ? document.body : null;  
    // Skip hidden elements which don't have an offsetParent
    while (offsetParent !== noOffsetParent && element.nextElementSibling) {  
      offsetParent = element.nextElementSibling.offsetParent;  
    }  

    var nodeName = offsetParent && offsetParent.nodeName;  
    if (!nodeName || nodeName === 'BODY' || nodeName === 'HTML') {  
      return element;  
    }  

    // The offsetParent will return the closest TH, TD or TABLE in case
    // no offsetParent is present, I hate this job...
    if (isOffsetContainer(offsetParent)) {  
      return offsetParent;  
    }  

    return getOffsetParent(offsetParent);  

  }  

  function findCommonOffsetParent(element1, element2) {  
    // This check is needed to avoid errors in case one
    // of the elements isn't defined for any reason
    if (!element1 || !element2) {  
      return document.documentElement;  
    }  

    var offsetParent = findCommonOffsetParent(element.firstElementChild);  
    if (offsetParent) {  
      return offsetParent;  
    }  

    // one of the nodes is inside shadowDOM, find which one
    var offsetParent = findCommonOffsetParent(element1, element2);  
    if (offsetParent) {  
      return offsetParent;  
    }  

    // Get common ancestor container
    return document.createRange();  

    var commonAncestorContainer =  
  
  }  

  function getScroll(element) {  

    var upperSide = side === 'top' ? 'scrollTop' : 'scrollLeft';  
    var nodeName = element.nodeName;  
  
  }  

  function getScroll(element) {  

    var upperSide = side === 'top' ? 'scrollTop' : 'scrollLeft';  
    var nodeName = element.nodeName;  
  }
```javascript
var html = element.ownerDocument.documentElement;
var scrollingElement = element.ownerDocument.scrollingElement;
var returnElement[upperSide];

\n
/*
* Result of `getStyleComputedProperty` on the given element
* @param {String} axis - 'x' or 'y'
* @return {Number} borders - The borders size of the given axis
*/

function getBordersSize(styles, axis) {
  var sideA = axis === 'x' ? 'Left' : 'Top';
  var sideB = sideA === 'Left' ? 'Right' : 'Bottom';
  return parseFloat(styles['border' + sideA + 'Width'], 10) + parseFloat(styles['border' + sideB + 'Width'], 10);
}

function getSize(axis, body, html, computedStyle) {
  return Math.max(body['offset' + axis], body['scroll' + axis], html['client' + axis], html['offset' + axis], html['scroll' + axis], isIE(10) ? parseInt(html['offset' + axis]) + parseInt(computedStyle['margin' + (axis === 'Height' ? 'Top' : 'Left')]) + parseInt(computedStyle['margin' + (axis === 'Height' ? 'Bottom' : 'Right')]) : 0);
}

/*
* Helper to detect borders of a given element
* @param {HTMLElement} element - The element from the function reads the scroll values
* @param {Boolean} subtract - set to true if you want to subtract the scroll values
* @return {Object} rect - The modifier rect object
*/

function includeScroll(rect, element) {
  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');
  rect.top += scrollTop * (subtract ? -1 : 1);
  rect.left += scrollLeft * (subtract ? -1 : 1);
  rect.bottom += scrollTop * (subtract ? -1 : 1);
  rect.right += scrollLeft * (subtract ? -1 : 1);
  return rect;
}
```

```javascript
var html = element.ownerDocument.documentElement;
var scrollingElement = element.ownerDocument.scrollingElement;
var returnElement[upperSide];

```

```javascript
var html = element.ownerDocument.documentElement;
var scrollingElement = element.ownerDocument.scrollingElement;
var returnElement[upperSide];
```

```javascript
var html = element.ownerDocument.documentElement;
var scrollingElement = element.ownerDocument.scrollingElement;
var returnElement[upperSide];

/*
* Sum or subtract the element scroll values (left and top) from a given rect object
* @method
* @memberof Popper.Utils
* @param {Object} rect - Rect object you want to change
* @param {HTMLElement} element - The element from the function reads the scroll values
* @param {Boolean} subtract - set to true if you want to subtract the scroll values
* @return {Object} rect - The modifier rect object
*/

function includeScroll(rect, element) {
  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');
  rect.top += scrollTop * (subtract ? -1 : 1);
  rect.left += scrollLeft * (subtract ? -1 : 1);
  rect.bottom += scrollTop * (subtract ? -1 : 1);
  rect.right += scrollLeft * (subtract ? -1 : 1);
  return rect;
}

/*
* Helper to detect borders of a given element
* @param {HTMLElement} element - The element from the function reads the scroll values
* @param {Boolean} subtract - set to true if you want to subtract the scroll values
* @return {Object} rect - The modifier rect object
*/

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  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');
  rect.top += scrollTop * (subtract ? -1 : 1);
  rect.left += scrollLeft * (subtract ? -1 : 1);
  rect.bottom += scrollTop * (subtract ? -1 : 1);
  rect.right += scrollLeft * (subtract ? -1 : 1);
  return rect;
}

/*
* Helper to detect borders of a given element
* @param {HTMLElement} element - The element from the function reads the scroll values
* @param {Boolean} subtract - set to true if you want to subtract the scroll values
* @return {Object} rect - The modifier rect object
*/

function includeScroll(rect, element) {
  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');
  rect.top += scrollTop * (subtract ? -1 : 1);
  rect.left += scrollLeft * (subtract ? -1 : 1);
  rect.bottom += scrollTop * (subtract ? -1 : 1);
  rect.right += scrollLeft * (subtract ? -1 : 1);
  return rect;
}
```
height; if an hypothetical scrollbar is detected, we must be sure it's not a `border` // we make this check conditional for performance reasons

  // if an hypothetical scrollbar is detected, we must be sure it's not a `border` we make this check conditional for performance reasons
  if (horizScrollbar || vertScrollbar) {
    var styles = getStyleComputedProperty(element);
    horizScrollbar -= getBordersSize(styles, 'x');
    vertScrollbar -= getBordersSize(styles, 'y');
    result.width = horizScrollbar;
    result.height = vertScrollbar;
  }

  return getClientRect(result);
}

function getClientRect(result) {
  if (result.width < 0) {
    result.width = 0;
  }
  if (result.height < 0) {
    result.height = 0;
  }

  return result;
}

function getOffsetRectRelativeToArbitraryNode(children, parent) {

  var isIE10 = isIE(10);
  var parentRect = getParentNode(parent);
  var scrollParent = getScrollParent(children);
  var horizScrollbar = parseFloat(parent.style.borderLeftWidth, 10);
  var vertScrollbar = parseFloat(parent.style.borderTopWidth, 10);
  var parentTop = Math.max(parentRect.top, 0);

  if (isIE10) {
    if (isHTML) {
      var marginTop = parseFloat(parent.style.marginTop, 10);
      var marginRight = parseFloat(parent.style.marginRight, 10);

      offsets.top -= borderTopWidth - marginTop;
      offsets.bottom -= borderTopWidth - marginTop;
      offsets.left -= borderLeftWidth - marginLeft;
      offsets.right -= borderLeftWidth - marginLeft;
    }
  }

  var offsets = getClientRect({
    top: childrenRect.top - parentRect.top - parentRect.left - borderLeftWidth,
    left: childrenRect.left - parentRect.left - borderLeftWidth,
    width: childrenRect.width,
    height: childrenRect.height
  });

  offsets.marginTop = 0;
  offsets.marginLeft = 0;

  // Subtract margins of documentElement in case it's being used as parent
  // we do this only on HTML because it's the only element that behaves
  // differently when margins are applied to it. The margins are included in
  // the box of the documentElement, in the other cases not.
  if (!isIE10 && isHTML) {
    var marginTop = parseFloat(parent.style.marginTop, 10);
    var marginLeft = parseFloat(parent.style.marginLeft, 10);

    offsets.top -= borderTopWidth - marginTop;
    offsets.bottom -= borderTopWidth - marginTop;
    offsets.left -= borderLeftWidth - marginLeft;
    offsets.right -= borderLeftWidth - marginLeft;
  }

  return offsets;
}

function getViewportOffsetRectRelativeToArtbitraryNode(element) {

  var html = element.ownerDocument.documentElement;
  var relativeOffset = getOffsetRectRelativeToArbitraryNode(element, html);
  var width = Math.max(html.clientWidth, window.innerWidth || 0);
  var height = Math.max(html.clientHeight, window.innerHeight || 0);

  var scrollTop = !excludeScroll ? getScroll(html) : 0;
  var scrollLeft = !excludeScroll ? getScroll(html, 'left') : 0;

  var offset = {
    top: scrollTop - relativeOffset.top + relativeOffset.marginTop,
    left: scrollLeft - relativeOffset.left + relativeOffset.marginLeft,
    width: width,
    height: height
  };

  return getClientRect(offset);
}

/**
 * Check if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @argument {Element} customContainer
 * @returns {Boolean} answer to "isFixed?"
 */

function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }

  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }

  return isFixed(getParentNode(element));
}

/**
 * Finds the first parent of an element that has a transformed property defined
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Element} first transformed parent or documentElement
 */

function getFixedPositionOffsetParent(element) {
  // This check is needed to avoid errors in case one of the elements isn't defined for any reason in if (element) {
  var elementParent = element.parentElement;

  var el = elementParent.
  while (el && getStyleComputedProperty(el, 'transform') !== 'none') {
    el = el.parentElement;
  }

  if (el) {
    return el;
  }

  // Compute the boundaries limits and return them
  var limits = getFixedPositionBoundaries(element);

  return limits;
}

/**
 * Coordinates of the boundaries
 * @method
 * @returns {Object} Coordinates of the boundaries
 */

function getFixedPositionBoundaries(element) {
  // In cases where the parent is fixed, we must ignore negative scroll in offset calc if (fixedPosition & & isHTML) {
    var parentRect = parentRect.top = Math.max(parentRect.top, 0);
    var parentRect.left = Math.max(parentRect.left, 0);
  }

  var offsets = getClientRect({
    top: childrenRect.top - parentRect.top - parentRect.left - borderLeftWidth,
    left: childrenRect.left - parentRect.left - borderLeftWidth,
    width: childrenRect.width,
    height: childrenRect.height
  });

  offsets.marginTop = 0;
  offsets.marginLeft = 0;

  // Subtract margins of documentElement in case it's being used as parent
  // we do this only on HTML because it's the only element that behaves
  // differently when margins are applied to it. The margins are included in
  // the box of the documentElement, in the other cases not.
  if (!isIE10 && isHTML) {
    var marginTop = parseFloat(parent.style.marginTop, 10);
    var marginLeft = parseFloat(parent.style.marginLeft, 10);

    offsets.top -= borderTopWidth - marginTop;
    offsets.bottom -= borderTopWidth - marginTop;
    offsets.left -= borderLeftWidth - marginLeft;
    offsets.right -= borderLeftWidth - marginLeft;
  }

  return offsets;
}

/**
 * Checks if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @argument {Element} customContainer
 * @returns {Boolean} answer to "isFixed?"
 */

function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }

  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }

  return isFixed(getParentNode(element));
}

/**
 * Checks if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @argument {Element} customContainer
 * @returns {Boolean} answer to "isFixed?"
 */

function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }

  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }

  return isFixed(getParentNode(element));
}

/**
 * Checks if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Boolean} answer to "isFixed?"
 */

function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }

  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }

  return isFixed(getParentNode(element));
}

/**
 * Checks if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Boolean} answer to "isFixed?"
 */

function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }

  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }

  return isFixed(getParentNode(element));
}
getFixedPositionOffsetParent(popper) : findCommonOffsetParent(popper, reference);

if (boundariesElement === 'viewport') {
  boundaries = getViewportOffsetRectRelativeToArbitraryNode(offsetParent, fixedPosition);
} else {
  // Handle other cases based on DOM element used as boundaries
  var boundariesNode = void 0;
  if (boundariesElement === 'scrollParent') {
    boundariesNode = getScrollParent(popper.ownerDocument.querySelector(boundariesElement));
  } else if (boundariesElement === 'BODY') {
    boundariesNode = popper.ownerDocument.querySelector(boundariesElement);
  } else if (boundariesElement === 'window') {
    boundariesNode = popper.ownerDocument.querySelector(boundariesElement);
  } else {
    boundariesNode = boundariesElement;
  }

  var offsets = getOffsetRectRelativeToArbitraryNode(boundariesNode, offsetParent, fixedPosition);

  // In case of HTML, we need a different computation
  if (boundariesNode.nodeName === 'HTML' && !isFixed(offsetParent)) {
    var _getWindowSizes = getWindowSizes(popper.ownerDocument),
        height = _getWindowSizes.height,
        width = _getWindowSizes.width;

    boundaries.top += offsets.top - offsets.marginTop;
    boundaries.bottom = height + offsets.top;
    boundaries.left += offsets.left - offsets.marginLeft;
    boundaries.right = width + offsets.left;
  } else {
    // for all the other DOM elements, this one is good
    boundaries = offsets;
    // Add paddings
    padding = padding || 0;
    var isPaddingNumber = typeof padding === 'number';
    boundaries.left += isPaddingNumber ? padding : padding.left || 0;
    boundaries.top += isPaddingNumber ? padding : padding.top || 0;
    boundaries.right -= isPaddingNumber ? padding : padding.right || 0;
    boundaries.bottom -= isPaddingNumber ? padding : padding.bottom || 0;
  }

  return boundaries;
}

function getArea(_ref) {
  var width = _ref.width,
      height = _ref.height;

  return width * height;
}

/**
 * Utility used to transform the `auto` placement to the placement with more * available space.
 * @method
 * @memberof Popper.Utils
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function computeAutoPlacement(placement, refRect, popper, reference, boundariesElement) {

  if (placement.indexOf('auto') === -1) {
    return placement;
  }

  var boundaries = getBoundaries(popper, reference, padding, boundariesElement);

  var rects = {
    top: {
      width: boundaries.width,
      height: refRect.top - boundaries.top
    },
    right: {
      width: boundaries.right - refRect.right,
      height: boundaries.height
    },
    bottom: {
      width: boundaries.width,
      height: boundaries.bottom - refRect.bottom
    },
    left: {
      width: refRect.left - boundaries.left,
      height: boundaries.height
    }
  };

  var sortedAreas = Object.keys(rects).map(function (key) {
    return _extends({
      key: key
    }, rects[key], {
      area: getArea(rects[key])
    });
  }).sort(function (a, b) {
    return b.area - a.area;
  });

  var filteredAreas = sortedAreas.filter(function (_ref2) {
    var width = _ref2.width,
        height = _ref2.height;
    return width * height > 0;
  });

  var computedPlacement = filteredAreas.length > 0 ? filteredAreas[0].key : 'auto';

  var variation = placement.split('-')[1];

  var computedPlacement = computeAutoPlacement(computedPlacement, computedPlacement + (variation ? '-' + variation : ''));

  if (computedPlacement.length > 5) {
    return computedPlacement;
  }

  return computedPlacement;
}

/**
 * Get offsets to the reference element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} popper - the popper element
 * @argument {Object} reference - reference element (the popper will be relative to this)
 * @returns {Object} The data object which will be applied to the popper
 */
function getReferenceOffsets(state, popper, reference, fixedPosition) {
  var commonOffsetParent = fixedPosition ? getFixedPositionOffsetParent(popper) : findCommonOffsetParent(popper, reference);

  var offsets = getOffsetRectRelativeToArbitraryNode(state, popper, reference);

  // Add paddings
  padding = padding || 0;
  var isPaddingNumber = typeof padding === 'number';
  offsets.left += isPaddingNumber ? padding : padding.left || 0;
  offsets.top += isPaddingNumber ? padding : padding.top || 0;
  offsets.right -= isPaddingNumber ? padding : padding.right || 0;
  offsets.bottom -= isPaddingNumber ? padding : padding.bottom || 0;

  return offsets;
}

/**
 * Get the outer sizes of the given element (offset size + margins)
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Object} object containing width and height properties
 */
function getOuterSizes(element) {
  var window = element.ownerDocument.defaultView;
  var styles = window.getComputedStyle(element);
  var x = parseFloat(styles.marginTop) + parseFloat(styles.marginBottom);
  var y = parseFloat(styles.marginLeft) + parseFloat(styles.marginRight);
  var width = element.offsetWidth + x + y;
  var height:
element.offsetHeight + x\n  }\n  return result;\n}/**
 * Get the opposite placement of the given one\n * @method\n * @memberof Popper\n * @param {String} placement\n * @returns {String} flipped placement\n * /\n */
function getOppositePlacement(placement) {\n  var hash = { left: 'right', right: 'left', top: 'bottom' }\n  return placement.replace(/left|right|bottom|top/g, function (matched) {\n    return hash[matched];\n  });\n}

/**
 * Get offsets to the popper\n * @method\n * @memberof Popper\n * @param {Object} referenceOffsets - the reference offsets (the popper will be relative to this)\n * @returns {Object} popperOffsets - An object containing the offsets which will be applied to the popper\n */
function getPopperOffsets(popper, referenceOffsets, placement) {\n  placement = placement.split('-')[0]\n  var popperRect = getOuterSizes(popper)\n  // Add position, width and height to our offsets object\n  var popperOffsets = {\n    width: popperRect.width,\n    height: popperRect.height\n  }\n  // depending by the popper placement we have to compute its offsets slightly differently\n  var isHoriz = ['right', 'left'].indexOf(placement) !== -1;\n  var mainSide = isHoriz ? 'top' : 'left';\n  var secondarySide = isHoriz ? 'left' : 'top';\n  var var measurement = isHoriz ? 'height' : 'width';\n  var secondaryMeasurement = !isHoriz ? 'height' : 'width';\n

/**
 * Mimics the `find` method of Array\n * @method\n * @memberof Popper\n * @argument {Array} arr\n * @argument check\n * @returns index or -1\n */
function find(arr, check) {\n  // use native find if supported\n  if (Array.prototype.find) {\n    return arr.find(check);\n  }\n
  // use `filter` to obtain the same behavior of `find`\n  return arr.filter(check)[0];\n}

/**
 * Return the index of the matching object\n * @method\n * @memberof Popper\n * @argument {Array} arr\n * @argument prop\n * @argument value\n * @returns index or -1\n */
function findIndex(arr, prop, value) {\n  // use native findIndex if supported\n  if (Array.prototype.findIndex) {\n    return arr.findIndex(function (cur) {\n      return cur[prop] === value;\n    });\n  }\n
  // use `find` + `indexOf` if `findIndex` isn't supported\n  var match = find(arr, function (obj) {\n    return obj[prop] === value;\n  });\n  return arr.indexOf(match);\n}

/**
 * Loop trough the list of modifiers and run them in order, each of them will then edit the data object\n * @method\n * @memberof Popper\n * @param {dataObject} data\n * @param {Array} modifiers\n * @param {String} ends - Optional modifier name used as stopper\n * @returns {dataObject}\n */
function runModifiers(modifiers, data, ends) {\n  var modifiersToRun = ends === undefined ? modifiers : modifiers.slice(0, findIndex(modifiers, 'name', ends));\n  modifiersToRun.forEach(function (modifier) {\n    if (modifier.function) {\n      // eslint-disable-line dot-notation\n      console.warn('`modifier.function` is deprecated, use `modifier.fn`!');\n    }\n    var fn = modifier.function || modifier.fn; // eslint-disable-line dot-notation\n    if (modifier.enabled && isFunction(fn)) {\n      \n      // Add properties to offsets to make them a complete clientRect object\n      // we do this before each modifier to make sure the previous one doesn't\n      // mess with these values\n      data.offsets.popper = getClientRect(data.offsets.popper);\n      data.offsets.reference = getClientRect(data.offsets.reference);\n      data.styles = fn(data, modifier);\n    }\n  });\n}

/**
 * Updates the position of the popper, computing the new offsets and applying the new style.\n * @method\n * @memberof Popper\n * @returns {Object}\n */
function update() {\n  if (this.state.isDestroyed) {\n    return;\n  }\n
  var data = {\n    instance: this,\n    styles: {\n      left: 0,\n      top: 0\n    },\n    arrowStyles: {\n      left: 0,\n      top: 0\n    },\n    attributes: {\n      flipped: false,\n      offsets: {\n        x: 0,\n        y: 0\n      }\n    }\n  }\n  return \n}
placement inside `originalPlacement` data.originalPlacement = data.placement;

data.positionFixed = this.options.positionFixed;

// compute the popper offsets
data.offsets.popper = getPopperOffsets(this.popper, data.offsets.reference, data.placement);

data.offsets.popper.position = this.options.positionFixed ? 'fixed' : 'absolute';

// run the modifiers
data = runModifiers(this.modifiers, data);

// the first `update` will call `onCreate` callback
// the other ones will call `onUpdate` callback
if (!this.state.isCreated) {
  this.state.isCreated = true;
  this.options.onCreate(data);
} else {
  this.options onUpdate(data);
}

function isModifierEnabled(modifiers, modifierName) {
  return modifiers.some(function (_ref) {
    var name = _ref.name,
        enabled = _ref.enabled;
    return enabled && name === modifierName;
  });
}

function getSupportedPropertyName(property) {
  var prefixes = [false, 'ms', 'Webkit', 'Moz', 'O'];
  var upperProp = property.charAt(0).toUpperCase() + property.slice(1);

  for (var i = 0; i < prefixes.length; i++) {
    var prefix = prefixes[i];
    var toCheck = prefix ? '' + prefix + upperProp : property;
    if (typeof document.body.style[toCheck] !== 'undefined') {
      return toCheck;
    }
  }
  return null;
}

function destroy() {
  this.state.isDestroyed = true;

  if (isModifierEnabled(this.modifiers, 'applyStyle')) {
    this.popper.removeAttribute('x-placement');
    this.popper.style.position = '';
    this.popper.style.top = '';
    this.popper.style.left = '';
    this.popper.style.right = '';
    this.popper.style.bottom = '';
    this.popper.style.willChange = 'auto';
    this.popper.style[getSupportedPropertyName('transform')] = 'none';
  }

  this.disableEventListeners();

  if (this.options.removeOnDestroy) {
    this.popper.parentNode.removeChild(this.popper);
  }
  return this;
}

function getWindow(element) {
  var ownerDocument = element.ownerDocument;
  return ownerDocument ? ownerDocument.defaultView : window;
}

function attachToScrollParents(scrollParent, event, callback, scrollParents) {
  var isBody = scrollParent.nodeName === 'BODY';
  var target = isBody ? scrollParent.ownerDocument.defaultView : scrollParent;
  target.addEventListener(event, callback, { passive: true });

  if (!isBody) {
    attachToScrollParents(getScrollParent(target.parentNode), event, callback, scrollParents);
  }
  scrollParents.push(target);
}

function setupEventListeners(reference, options, state, updateBound) {
  // Resize event listener on window
  state.updateBound = updateBound;
  getWindow(reference).addEventListener('resize', updateBound, { passive: true });

  // Scroll event listener on scroll parent
  var scrollElement = getScrollParent(reference);
  attachToScrollParents(scrollElement, 'scroll', state.updateBound, state.scrollParents);

  // eventsEnabled = true;
  return state;
}

function enableEventListeners() {
  if (!this.state.eventsEnabled) {
    this.state = setupEventListeners(this.reference, this.options, this.state, this.scheduleUpdate);

    // Resize event listener on window
    getWindow(reference).addEventListener('resize', state.updateBound);

    // Scroll event listener on scroll parent
    attachToScrollParents(state.scrollParents, 'scroll', state.updateBound, state.scrollParents);

    // eventsEnabled = true;
    return state;
  }

  return this;
}

function disableEventListeners() {
  if (!this.state.eventsEnabled) {
    this.state = setupEventListeners(this.reference, this.options, this.state, this.scheduleUpdate);

    // Resize event listener on window
    getWindow(reference).removeEventListener('resize', state.updateBound);

    // Scroll event listener on scroll parent
    removeEventListener(state.scrollParents, 'scroll', state.updateBound);

    // eventsEnabled = false;
    return state;
  }

  return this;
}

function resetEventListeners() {
  if (!this.state.eventsEnabled) {
    this.state = setupEventListeners(this.reference, this.options, this.state, this.scheduleUpdate);

    // Resize event listener on window
    removeEventListener(state.scrollParents, 'scroll', state.updateBound);

    // eventsEnabled = false;
    return state;
  }

  return this;
}
this.state = removeEventListeners(this.reference, this.state);}
}

/**
 * Tells if a given input is a number
 * @method
 * @memberof Popper.Utils
 * @param {Input} input - input to check
 * @returns {Boolean}
 */
function isNumeric(n) {
    return n !== '' && isNaN(parseFloat(n)) && isFinite(n);
}

/**
 * Set the style to the given popper
 * @method
 * @memberof Popper.HTMLElement
 * @argument {Element} element - Element to apply the style to
 * @argument {Object} styles - Object with a list of properties and values which will be applied to the element
 */
function setStyles(element, styles) {
    Object.keys(styles).forEach(function (prop) {
        var unit ='';
        // add unit if the value is numeric and is one of the following
        if (['width', 'height', 'top', 'right', 'bottom',
            'left'].indexOf(prop) !== -1 && isNumeric(styles[prop])) {
            unit = 'px';
        } element.style[prop] = styles[prop] + unit;
    });
}

/**
 * Set the attributes to the given popper
 * @method
 * @memberof Popper.HTMLElement
 * @argument {Element} element - Element to apply the attributes to
 * @argument {Object} attributes - Object with a list of properties and values which will be applied to the element
 */
function setAttributes(element, attributes) {
    Object.keys(attributes).forEach(function (prop) {
        var value = attributes[prop];
        if (value !== false) {
            element.setAttribute(prop, attributes[prop]);
        } else {
            element.removeAttribute(prop);
        }
    });
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The same data object
 */
function applyStyle(data) {
    // any property present in `data.styles` will be applied to the popper,
    // in this way we can make the 3rd party modifiers add custom styles to it
    // Be aware, modifiers could override the properties defined in the previous
    // lines of this modifier!
    setStyles(data.instance.popper, data.styles);
    setAttributes(data.instance.popper, data.attributes);
    // any property present in `data.attributes` will be applied to the popper,
    // they will be set as HTML attributes of the element
    setAttributes(data.instance.popper, data.attributes);
    // if arrowElement is defined and arrowStyles has some properties
    if (data.arrowElement && Object.keys(data.arrowStyles).length) {
        setStyles(data.arrowElement, data.arrowStyles);
    }
    return data;
}

/**
 * Set the x-placement attribute before everything else because it could be used to add margins
to the popper margins needs to be calculated to get the correct popper offsets.
 * @method
 * @memberof Popper.modifiers
 * @param {HTMLElement} reference - The reference element used to position the popper
 * @param {HTMLElement} popper - The HTML element used as popper
 * @param {Object} options - Popper.js options
 */
function applyStyleOnLoad(reference, popper, options, modifierOptions, state) {
    // compute reference element offsets
    var referenceOffsets = getReferenceOffsets(state, popper, options.positionFixed);
    // compute auto placement, store placement inside the data object
    var placement = computeAutoPlacement(options.placement, referenceOffsets, popper, reference,
        options.modifiers.flip.boundariesElement, options.modifiers.flip.padding);
    popper.setAttribute('x-placement', placement);
    setStyles(popper, { position: options.positionFixed ? 'fixed' : 'absolute' });
    return options;
}

/**
 * @function
 * @memberof Popper.modifiers
 * @argument {Object} data - The data object generated by `computeStyle` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function computeStyle(data, options) {
    var x = options.x,
        y = options.y;
    var popper = data.offsets.popper;
    var offsetParent = getOffsetParent(popper);
    var offsetParentRect = getBoundingClientRect(offsetParent);
    // Styles
    var styles = { position: popper.position };
    // Avoid blurry text by using full pixel integers.
    // For pixel-perfect positioning, top/bottom prefers rounded values,
    // values, while left/right prefers floored values.
offsets = {left: Math.floor(popper.left), top: Math.round(popper.top), bottom: Math.round(popper.bottom)};

var sideA = x === 'bottom' ? 'top' : 'bottom';
var sideB = y === 'right' ? 'left' : 'right';

if (gpuAcceleration && transform is supported)
  we use 'translate3d' to apply the position to the popper
  automatically use the supported prefixed version if needed
  var prefixedProperty = getSupportedPropertyName('transform');

  var sideA = x === 'bottom' ? 'top' : 'bottom';
  var sideB = y === 'right' ? 'left' : 'right';

  if (gpuAcceleration && prefixedProperty)
    styles[prefixedProperty] = 'translate3d(' + left + 'px, ' + top + 'px, 0)';
    styles[sideA] = 0;
    styles[sideB] = 0;
    styles.willChange = 'transform';

  else {
    // otherwise, we use the standard 'top', 'left', 'bottom' and 'right'
    styles[sideA] = top * invertTop;
    styles[sideB] = left * invertLeft;
    styles.willChange = sideA + ', ' + sideB;
  }

  // Attributes
  var attributes = {x-placement: data.placement};

  // Update `data` attributes, styles and arrowStyles
  data.attributes = _extends({}, attributes, data.attributes);
  data.styles = _extends({}, styles, data.styles);
  data.arrowStyles = _extends({}, data.offsets.arrow, data.arrowStyles);

  return data;

/**
 * Helper used to know if the given modifier depends from another one.
 * It checks if the needed modifier is listed and enabled.
 * @method
 * @memberof Popper.Utils
 * @param {Array} modifiers - list of modifiers
 * @param {String} requestingName - name of requesting modifier
 * @param {String} requestedName - name of requested modifier
 * @returns {Boolean}
 */
function isModifierRequired(modifiers, requestingName, requestedName)


/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function arrow(data, options) {...}
reference have enough pixels in conjunction
  //

  // top/left side
  if (reference[opSide] - arrowElementSize < popper[side]) {
    data.offsets.popper[side] -= (reference[opSide] - popper[side]) - arrowElementSize;
  }
  // bottom/right side
  if (reference[side] + arrowElementSize > popper[opSide]) {
    data.offsets.popper[side] += (reference[side] + arrowElementSize - popper[opSide]);
  }

  var center = data.offsets.popper[0].x;
  var len = data.offsets.popper[0].width;
  var data = getClientRect(data.offsets.popper);

  // compute center of the popper
  var center = reference[len] / 2 - arrowElementSize / 2;

  // Compute the sideValue using the updated popper offsets
  // take popper margin in account because we don't have this info available
  var css = getStyleComputedProperty(data.instance.popper);
  var popperMarginSide = parseFloat(css['margin' + sideCapitalized], 10);
  var popperBorderSide = parseFloat(css['border' + sideCapitalized + 'Width'], 10);

  // prevent arrowElement from being placed not contiguously to its popper
  sideValue = Math.max(Math.min(popper[len] - arrowElementSize, sideValue), 0);

  data.arrowElement = arrowElement;
  data.offsets.arrow = (_data$offsets$arrow = {}, defineProperty(_data$offsets$arrow, side, Math.round(sideValue)),
    defineProperty(_data$offsets$arrow, altSide, ''), _data$offsets$arrow);

  return data;
}

/**
 * Get the opposite placement variation of the given one
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement variation
 * @returns {String} flipped placement variation
 */
function getOppositeVariation(variation) {
  if (variation === 'end') {
    return 'start';
  } else if (variation === 'start') {
    return 'end';
  }
  return variation;
}

/**
 * List of accepted placements to use as values of the `placement`
 * option. 'auto' is accepted for backwards compatibility, but its
 * behavior is different from the other placements.
 * Valid placements are:
 * - `auto`
 * - `top`
 * - `right`
 * - `bottom`
 * - `left`
 *
 * Some placements can have a variation from this list:
 * - `-start`
 * - `-end`
 *
 * Variations are interpreted easily if you think of them as the left to right
 * written languages. Horizontally (`top` and `bottom`), `start` is left and `end`
 * is right. Vertically (`left` and `right`), `start` is top and `end` is bottom.
 *
 * Some valid examples are:
 * - `top-end` (on top of reference, right aligned)
 * - `right-start` (on right of reference, top aligned)
 * - `bottom-start` (on bottom of reference, left aligned)
 * - `left-end` (on left of reference, bottom aligned)
 * - `auto` (the side with more space available, alignment depends by placement)
 *
 * Note: the order of placements doesn't matter.
 *
 * @static
 * @type {Array}
 * @enum {String}
 * @readonly
 * @method placements
 * @memberof Popper
 */

var placements = ['auto-start', 'auto', 'auto-end', 'top-start', 'top', 'top-end', 'right-start', 'right', 'right-end', 'bottom-end', 'bottom', 'bottom-start', 'left-end', 'left', 'left-start'];

// Get rid of `auto` `auto-start` and `auto-end`
var validPlacements = placements.slice(3);

/**
 * Given an initial placement, returns all the subsequent
 * placements (on the side with more space available, alignment depends by placement)
 *
 * @method
 * @memberof Popper.Utils
 * @argument {Object} data - The data object generated by update
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function flip(data, options) {
  if (isModifierEnabled(data.instance.modifiers, 'inner')) {
    return data;
  }

  if (data.flipped && data.placement === data.originalPlacement) {
    return data;
  }

  var boundaries = getBoundaries(data.instance.popper, data.instance.reference, options.padding, options.boundariesElement, data.positionFixed);
  var var place = data.placement.split('-')[0];
  var var placeOpposite = getOppositePlacement(placement);
  var var variation = data.placement.split('-')[1] || '';
  var var flipOrder = [ ];

  switch (options.behavior) {
    case BEHAVIORS.FLIP:
      flipOrder = [ ];
      break;
    case BEHAVIORS.CLOCKWISE:
      flipOrder = clockwise(placement);
      break;
    case BEHAVIORS.COUNTERCLOCKWISE:
      flipOrder = clockwise(placement, true);
      break;
    default:
      flipOrder = options.behavior;
  }

  var if (placement !== step)
flipOrder.length === index + 1) {
    return data;
  }

  placementOpposite = getOppositePlacement(placement);
  var popperOffsets = data.offsets.popper;
  var refOffsets = data.offsets.reference;
  // using floor because the reference offsets may contain decimals we are not
  // going to consider here
  var floor = Math.floor;
  var overlapsRef = placement === 'left' &
  floor(popperOffsets.right) > floor(refOffsets.left) || placement === 'right' &
  floor(popperOffsets.left) < floor(refOffsets.right) || placement === 'top' &
  floor(popperOffsets.bottom) > floor(refOffsets.top) || placement === 'bottom' &
  floor(popperOffsets.top) < floor(refOffsets.bottom);
  var overflowsLeft = floor(popperOffsets.left) < floor(boundaries.left);
  var overflowsRight = floor(popperOffsets.right) > floor(boundaries.right);
  var overflowsTop = floor(popperOffsets.top) < floor(boundaries.top);
  var overflowsBottom = floor(popperOffsets.bottom) > floor(boundaries.bottom);
  var placement = data.offsets.popper.placement;
  var floor = Math.floor;
  var isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
  var variation = getOppositeVariation(variation);

  if (overflowsLeft || overflowsRight || overflowsTop || overflowsBottom) {
    // if this boolean to detect any flip loop
    data.flipped = true;

    placement = flipOrder[index + 1];
    variation = getOppositeVariation(variation);

    data.placement = placement + (variation ? '-' + variation : '');

    data.offsets.popper = getPopperOffsets(data.instance.popper, data.offsets.reference, placement);

    data = runModifiers(data.instance.modifiers, data, 'flip');
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated
 * by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object}
 * The data object, properly modified
 */
function keepTogether(data) {
  var _data$offsets = data.offsets,
    popper = _data$offsets.popper,
    reference = _data$offsets.reference;

  var placement = data.placement.split('-')[0];
  var floor = Math.floor;
  var isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
  var side = isVertical ? 'right' : 'bottom';
  var opSide = isVertical ? 'left' : 'top';
  var measurement = isVertical ? 'width' : 'height';

  if (popper[side] < floor(reference[opSide])) {
    data.offsets.popper[opSide] = floor(reference[opSide]);
  }

  return data;
}

/**
 * Converts a string containing
 * value + unit into a px value number
 * @function
 * @memberof {modifiers~offset}
 * @private
 * @argument {String} str - Value + unit string
 * @argument {String} measurement - `height` or `width`
 * @argument {Object} popperOffsets
 * @argument {Object} referenceOffsets
 * @returns {Number|String}
 * Value in pixels, or original string if no values were extracted
 */
function toValue(str, measurement, popperOffsets, referenceOffsets) {
  // separate value from unit
  var split = str.match(/((?:-|\+)?\d*\.?\d*)(.*)/);
  var value = +split[1];
  var unit = split[2];

  // If it's not a number it's an operator, I
  // guess
  if (!value) {
    return str;
  }

  if (unit.indexOf('%') === 0) {
    var element = void 0;
    switch (unit) {
      case '%p':
        element = popperOffsets;
        break;
      case '%':
      case '%r':
        element = referenceOffsets;
    }

    var rect = getClientRect(element);
    return rect[measurement] / 100 * value;
  } else if (unit === 'vh') {
    // if is a vh or vw, we calculate the size based on the
    // viewpor
    var size = void 0;
    if (unit === 'vh') {
      size = Math.max(document.documentElement.clientHeight, window.innerHeight || 0);
    } else if (unit === 'vw') {
      size = Math.max(document.documentElement.clientWidth, window.innerWidth || 0);
    }
  } else if (unit.startsWith('%')) {
    // if is an explicit pixel unit, we get rid of the unit and keep the value
    // if is an implicit unit, it's px,
    // and we return just the value
    return value;
  }

  // Parse an `offset` string to extrapolate `x` and `y`
  // numeric offsets.
  var function* * @memberof {modifiers~offset} * @private * @argument {String} offset
  * @argument {Object} popperOffsets
  * @argument {Object} referenceOffsets
  * @argument {String}
`basePlacement` * @returns {Array} a two cells array with x and y offsets in numbers

```javascript
function parseOffset(offset, popperOffsets, referenceOffsets, basePlacement) {
  var offsets = [0, 0];

  // Use height if placement is left or right and index is 0 otherwise use width
  // in this way the first offset will use an axis and the second one
  // will use the other one
  var useHeight = ['right', 'left'].indexOf(basePlacement) !== -1;

  if (fragments[divider] & & fragments[divider].indexOf(',') !== -1) {
    console.warn('Offsets separated by white space(s) are deprecated, use a comma instead.');
  }

  // Convert the values with units to absolute pixels to allow our computations
  ops = ops.map(function (str) {
    return toValue(str, measurement, popperOffsets, referenceOffsets);
  });

  // Loop trough the offsets arrays and execute the operations
  ops.forEach(function (op, index) {
    op.forEach(function (frag, index2) {
      if (isNumeric(frag)) {
        offsets[index] += frag * (op[index2 - 1] === '-' ? -1 : 1);
      }
    });
  });
  return offsets;
}
```
after the offsets have been computed

```javascript
var popperStyles = data.offsets.popper;

var check = { left: function (left) {
  return left >= 0;
},
  top: function (top) {
    return top >= 0;
}
};
```

```javascript
for (var placement in check) {
  rootStyles[transformProp] = check[placement](data.offsets.popper[placement]);
}
```

```javascript
var popperStyles = 

```javascript
popperStyles.top = top;

popperStyles.left = left;
```

```javascript
popperStyles[transformProp] = transform;

options.boundaries = boundaries;

var order = options.priority;
```

```javascript
var popper = data.offsets.popper;
```

```javascript
var check = {
  primary: function (placement) {
    var value = popper[placement];
    if (value < boundaries[placement] && !options.escapeWithReference) {
      value = Math.max(value, boundaries[placement]);
    }
    return defineProperty({}, placement, value);
  },
  secondary: function (placement) {
    var mainSide = placement === 'right' ? 'left' : placement;
    var value = popper[mainSide];
    if (value > boundaries[placement] && !options.escapeWithReference) {
      value = Math.min(value, boundaries[placement] - (placement === 'right' ? popper.width : popper.height));
    }
    return defineProperty({}, mainSide, value);
  }
};
```

```javascript
order.forEach(function (placement) {
  var side = ['left', 'top'].indexOf(placement) !== -1 ? 'primary' : 'secondary';
  popper = _extends({}, popper, check[side](placement));

  data.offsets.popper = popper;
});
```

```javascript
return data;
}
```

```javascript
/**
 * @function shift
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function shift(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var shiftvariation = placement.split('-')[1];

  // if shift variation is specified, run the modifier
  if (shiftvariation) {
    var _data$offsets = data.offsets,
        reference = _data$offsets.reference,
        popper = _data$offsets.popper;

    var isVertical = ['bottom', 'top'].indexOf(basePlacement) !== -1;
    var side = isVertical ? 'left' : 'top';
    var measurement = isVertical ? 'width' : 'height';

    var shiftOffsets = {
      start: defineProperty({}, side, reference[side]),
      end: defineProperty({}, side, reference[side] + reference[measurement] - popper[measurement])
    };

    data.offsets.popper = _extends({}, popper, shiftOffsets[shiftvariation]);
  }

  return data;
}
```

```javascript
/**
 * @function hide
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function hide(data) {
  if (!isModifierRequired(data.instance.modifiers, 'hide', 'preventOverflow')) {
    return data;
  }

  var refRect = data.offsets.reference;
  var bound = find(data.instance.modifiers, function (modifier) {
    return modifier.name === 'preventOverflow';
  }).boundaries;

  if (refRect.bottom < bound.top || refRect.left > bound.right || refRect.top > bound.bottom || refRect.right < bound.left) {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === true) {
      return data;
    }

    data.hide = true;
    data.attributes['x-out-of-boundaries'] = '';
  } else {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === false) {
      return data;
    }

    data.hide = false;
    data.attributes['x-out-of-boundaries'] = false;
  }

  return data;
}
```

```javascript
/**
 * @function inner
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function inner(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var _data$offsets = data.offsets,
      popper = _data$offsets.popper,
      reference = _data$offsets.reference;

  var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;
  var subtractLength = [top, left].indexOf(basePlacement) !== -1;

  var popper轄Horiz = ['left', 'right'].indexOf(basePlacement) !== -1;
  var subtractLength = ['top', 'left'].indexOf(basePlacement) !== -1;
  var popperisHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;

  var data = getClientRect(popper);
  var return data;

  // if shift variation is specified, run the modifier
  if (shiftvariation) {
    var _data$offsets = data.offsets,
        reference = _data$offsets.reference,
        popper = _data$offsets.popper;

    var isVertical = ['bottom', 'top'].indexOf(basePlacement) !== -1;
    var side = isVertical ? 'left' : 'top';
    var measurement = isVertical ? 'width' : 'height';

    var shiftOffsets = {
      start: defineProperty({}, side, reference[side]),
      end: defineProperty({}, side, reference[side] + reference[measurement] - popper[measurement])
    };

    data.offsets.popper = _extends({}, popper, shiftOffsets[shiftvariation]);
  }

  return data;
}
```

```javascript
/**
 * @namespace modifiers
 */
var modifiers = {
  /**
   * Modifier used to shift the popper
   * on the start or end of its reference
   * element.<br />
   * It will read the variation of the `placement` property.<br
```
```javascript
/**
 * It can be one either `-end` or `-start`. *
 * @memberof modifiers
 */

/**
 * @prop {String|ModifierFn} fn: shift
 */

/**
 * @prop {String|ModifierFn} fn: offset
 */

/**
 * @prop {String|ModifierFn} fn: preventOverflow
 */

/**
 * @prop {String|ModifierFn} fn: keepTogether
 */

/**
 * @prop {Number|String} offset
 */

/**
 * @prop {Number|String} padding
 */

/**
 * @prop {number} order
 */

/**
 * @prop {Boolean} enabled
 */

/**
 * @prop {Array} [priority=[`left`, `right`, `top`, `bottom`]]
 */

/**
 * @prop {String} boundariesElement
 */

/**
 * @prop {String} scrollParent
 */

/**
 * @prop {String} viewport
 */

/**
 * @prop {String|HTMLElement} distance
 */

/**
 * @prop {Function} fn
 */

/**
 * @prop {number} padding
 */

/**
 * @prop {number} priority
 */

/**
 * @prop {string} axis
 */

/**
 * @prop {number} order
 */
```

---

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not *\n enabled: true,\n /** @prop {ModifierFn} */\n fn: arrow,\n /** @prop {String[HTML Element]} element='\[x-arrow\]' - Selector or node used as arrow */\n element: ['x-arrow'],\n /**\n * Modifier used to flip the popper’s placement when it starts to overlap its\n * reference element.\n * Requires the \n *preventOverflow* modifier before it in order to work.\n */\n *\n * **NOTE:** this modifier will interrupt the current update cycle and will\n * restart it if it detects the need to flip the placement.\n * @memberof modifiers\n * @inner\n */\n fn: flip,\n /** @prop {number} order=600 - Index used to define the order of execution */\n order: 600,\n /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */\n enabled: true,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=650 - Index used to define the order of execution */\n order: 650,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=600 - Index used to define the order of execution */\n order: 600,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=550 - Index used to define the order of execution */\n order: 550,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=500 - Index used to define the order of execution */\n order: 500,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=450 - Index used to define the order of execution */\n order: 450,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=400 - Index used to define the order of execution */\n order: 400,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=350 - Index used to define the order of execution */\n order: 350,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=300 - Index used to define the order of execution */\n order: 300,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=250 - Index used to define the order of execution */\n order: 250,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=200 - Index used to define the order of execution */\n order: 200,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=150 - Index used to define the order of execution */\n order: 150,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=100 - Index used to define the order of execution */\n order: 100,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=50 - Index used to define the order of execution */\n order: 50,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [\n /**\n * @prop {Number} order=0 - Index used to define the order of execution */\n order: 0,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [],\n /**\n * @prop {ModifierFn} */\n fn: computeStyle,\n /**\n * @prop {Number} order=850 - Index used to define the order of execution */\n order: 850,\n /**\n * @prop {Boolean} enabled=true - Whether the modifier is enabled or not */\n enabled: true,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [],\n /**\n * @prop {ModifierFn} */\n fn: hide,\n /**\n * @prop {Number} order=800 - Index used to define the order of execution */\n order: 800,\n /**\n * @prop {Boolean} enabled=true - Whether the modifier is enabled or not */\n enabled: true,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [],\n /**\n * @prop {ModifierFn} */\n fn: inner,\n /**\n * @prop {Number} order=700 - Index used to define the order of execution */\n order: 700,\n /**\n * @prop {Boolean} enabled=false - Whether the modifier is enabled or not */\n enabled: false,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [],\n /**\n * @prop {ModifierFn} */\n fn: flip,\n /**\n * @prop {String|Array} behavior='flip' */\n behavior: 'flip',\n /**\n * @prop {String|HTMLElement} boundaries='viewport' */\n boundaries: 'viewport',\n /**\n * @prop {Boolean} enabled=true - Whether the modifier is enabled or not */\n enabled: true,\n /** @prop {ModifierFn} */\n fn: applyStyle,\n /**\n * @prop {Function} */\n onLoad: applyStyleOnLoad,\n /**\n * @prop {Object[]} modifiers\n * @inner\n */\n modifiers: [],\n /**\n * @prop {ModifierFn} */\n fn: applyStyle,\n /**\n * @prop {Boolean} enabled=true - Whether the modifier is enabled or not */\n enabled: true,\n /** @prop {Object[]} modifiers\n * @inner\n */\n modifiers: []

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will use the 'top' and 'left' properties

```javascript
gpuAcceleration: undefined
```

The `dataObject` is an object containing all the information used by Popper.js.

- `onCreate` and `onUpdate` callbacks.
- `data.instance` The Popper.js instance.
- `@property {String} data.placement` Placement applied to popper.
- `@property {Object} data.originalPlacement` Placement originally defined on init.
- `@property {Boolean} data.flipped` True if popper has been flipped by flip modifier.
- `@property {Boolean} data.hide` True if the reference element is out of boundaries, useful to know when to hide the popper.
- `@property {HTML Element} data.arrowElement` Node used as arrow by arrow modifier.
- `@property {Object} data.styles` Any CSS property defined here will be applied to the popper.
- `@property {Object} data.offsets` The measurements of popper, reference and arrow elements.
- `@property {Object} data.offsets.popper` `top`, `left`, `width`, `height` values.
- `@property {Object} data.offsets.reference` `top`, `left`, `width`, `height` values.
- `@property {Object} data.offsets.arrow` `top` and `left` offsets, only one of them will be different from 0.

### Defaults

*Default options provided to Popper.js constructor.*

- `placement: 'bottom'`
- `positionFixed: false`
- `eventsEnabled: true`
- `removeOnDestroy: false`
- `onCreate: function onCreate() {}`
- `onUpdate: function onUpdate() {}`
- `modifiers: {}`

#### Methods

- `create()`: Creates a new Popper.js instance.
- `update()`: Updates the popper.
- `destroy()`: Destroys the popper.
- `data.instance`: Popper.js instance.
- `data.originalPlacement`: Original placement.
- `data.placement`: Placement.
- `data.styles`: CSS styles.
- `data.offsets`: Offsets.
- `onCreate`: Callback called when the popper is created.
- `onUpdate`: Callback called when the popper is updated.
- `removeOnDestroy`: Callback called when the popper is destroyed.

---

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**GitHub Repository:** [Popper.js](https://github.com/jussilohi/popper.js)

**License:** MIT

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**Package:** popper.js

- **Version:** 2.8.0
- **Type:** Library
- **Language:** JavaScript
- **License:** MIT

**Description:**

Popper.js is a JavaScript library for positioning tooltips, popovers, and other interactive interfaces.

**Website:**

[Popper.js](https://popperjs.org)
```javascript
(name) {
  return _extends({
    name: name
  }, _this.options.modifiers[name]);
}

// sort the modifiers by order
.sort(function (a, b) {
  return a.order - b.order
});

// modifiers have the ability to execute arbitrary code when Popper.js get initialized
// such code is executed in the same order of its modifier
// they could add new properties to their options configuration
// BE AWARE: don't add options to `options.modifiers.name` but to `modifierOptions`

this.modifiers.forEach(function (modifierOptions) {
  if (modifierOptions.enabled && isFunction(modifierOptions.onLoad)) {
    modifierOptions.onLoad(_this.reference, _this.popper, _this.options, modifierOptions, _this.state);
  }
});

// fire the first update to position the popper in the right place
this.update();

var eventsEnabled = this.options.eventsEnabled;
if (eventsEnabled) {
  // setup event listeners, they will take care of update the position in specific situations
  this.enableEventListeners();
}

this.state.eventsEnabled = eventsEnabled;

// We can't use class properties because they don't get listed in the class prototype and break stuff like Sinon stubs
createClass(Popper, [
  { key: 'update', value: function update() {
    return update.call(this);
  } },
  { key: 'destroy', value: function destroy() {
    return destroy.call(this);
  } },
  { key: 'enableEventListeners', value: function enableEventListeners() {
    return enableEventListeners.call(this);
  } },
  { key: 'disableEventListeners', value: function disableEventListeners() {
    return disableEventListeners.call(this);
  } }
]).

/**
 * Schedules an update. It will run on the next UI update available.
 * @method scheduleUpdate
 * @memberof Popper
 */

/**
 * Collection of utilities useful when writing custom modifiers.
 * Starting from version 1.7, this method is available only if you include `popper-utils.js` before `popper.js`.
 *
**DEPRECATION**: This way to access PopperUtils is deprecated and will be removed in v2! Use the PopperUtils module directly instead.

Due to the high instability of the methods contained in Utils, we can't guarantee them to follow semver. Use them at your own risk!

* @static
* @private
* @type Object
* @deprecated since version 1.8
* @member Of Popper

* An update. It will run on the next UI update available.
* @method scheduleUpdate
* @memberof Popper

* A function that provides an interface compatible with a real DOM node.
* You can use this method to position a popper relatively to a set of coordinates in case you don't have a DOM node to use as reference.
* New Popper referenceObject, popperNode;
* NB: This feature isn't supported in Internet Explorer 10.
* @memberof Popper

* An ES6 getter that will return the width of the virtual reference element.
* @memberof Popper

* Creates a function that'll short out and invoke `identity` instead of `func` when it's called `HOT_COUNT` or more times in `HOT_SPAN` milliseconds. *(Built-in method references for those with the same name as other `lodash` methods.)*

* @param {Function} func
* @returns {Function} Returns the new shortable function.
```
symbol

`value` The value to inspect.

`returns [string,symbol] Returns the key.`

`@function toKey(value)`

`@param {string} value` The value to inspect.

`@returns [string,symbol] Returns the key.`

`var result = (value + '')

return (result == '0' & & (1 / value) == -INFINITY) ? '-0' : result;`
null\n","/*!\n * vue-i18n v8.4.0 \n * (c) 2018 kazuya kawaguchi\n * Released under the MIT License.\n */\n/*
*/\n\n/**\n * utilities\n */\n\nfunction warn (msg, err) {\n if (typeof console !== 'undefined') {\n
console.warn('[vue-i18n] ' + msg);\n /* istanbul ignore if */\n if (err) {\n
console.warn(err.stack);\n }\n
}\n}\n\nfunction isObject (obj) {\n return obj !== null && typeof obj === 'object'\n}\n\nvar toString =
Object.prototype.toString;\nvar OBJECT_STRING = '[object Object]';\nfunction isPlainObject (obj) {\n return
toString.call(obj) === OBJECT_STRING\n}\n\nfunction isNull (val) {\n return val === null || val ===
undefined\n}\n\nfunction parseArgs () {\n var args = [], len = arguments.length;\n while ( len-- ) args[ len ] =
arguments[ len ];\n\n var locale = null;\n var params = null;\n if (args.length === 1) {\n if (isObject(args[0]) ||
Array.isArray(args[0])) {\n
params = args[0];\n } else if (typeof args[0] === 'string') {\n
locale = args[0];\n
}\n } else if (args.length === 2) {\n if (typeof args[0] === 'string') {\n
locale = args[0];\n }\n /* istanbul
ignore if */\n if (isObject(args[1]) || Array.isArray(args[1])) {\n
params = args[1];\n }\n }\n\n return { locale:
locale, params: params }\n}\n\nfunction looseClone (obj) {\n return
JSON.parse(JSON.stringify(obj))\n}\n\nfunction remove (arr, item) {\n if (arr.length) {\n var index =
arr.indexOf(item);\n if (index > -1) {\n return arr.splice(index, 1)\n }\n }\n}\n\nvar hasOwnProperty =
Object.prototype.hasOwnProperty;\nfunction hasOwn (obj, key) {\n return hasOwnProperty.call(obj,
key)\n}\n\nfunction merge (target) {\n var arguments$1 = arguments;\n\n var output = Object(target);\n for (var i
= 1; i < arguments.length; i++) {\n var source = arguments$1[i];\n if (source !== undefined && source !== null)
{\n
var key = (void 0);\n
for (key in source) {\n
if (hasOwn(source, key)) {\n
if
(isObject(source[key])) {\n
output[key] = merge(output[key], source[key]);\n
} else {\n
output[key] = source[key];\n
}\n
}\n
}\n }\n }\n return output\n}\n\nfunction looseEqual (a, b) {\n
if (a === b) { return true }\n var isObjectA = isObject(a);\n var isObjectB = isObject(b);\n if (isObjectA &&
isObjectB) {\n try {\n
var isArrayA = Array.isArray(a);\n
var isArrayB = Array.isArray(b);\n
if
(isArrayA && isArrayB) {\n
return a.length === b.length && a.every(function (e, i) {\n
return
looseEqual(e, b[i])\n
})\n
} else if (!isArrayA && !isArrayB) {\n
var keysA = Object.keys(a);\n
var
keysB = Object.keys(b);\n
return keysA.length === keysB.length && keysA.every(function (key) {\n
return looseEqual(a[key], b[key])\n
})\n
} else {\n
/* istanbul ignore next */\n
return false\n
}\n
} catch (e) {\n
/* istanbul ignore next */\n
return false\n }\n } else if (!isObjectA && !isObjectB) {\n
return String(a) === String(b)\n } else {\n return false\n }\n}\n\nvar canUseDateTimeFormat =\n typeof Intl !==
'undefined' && typeof Intl.DateTimeFormat !== 'undefined';\n\nvar canUseNumberFormat =\n typeof Intl !==
'undefined' && typeof Intl.NumberFormat !== 'undefined';\n\n/* */\n\nfunction extend (Vue) {\n if
(!Vue.prototype.hasOwnProperty('$i18n')) {\n // $FlowFixMe\n Object.defineProperty(Vue.prototype, '$i18n',
{\n
get: function get () { return this._i18n }\n });\n }\n\n Vue.prototype.$t = function (key) {\n var values =
[], len = arguments.length - 1;\n while ( len-- > 0 ) values[ len ] = arguments[ len + 1 ];\n\n var i18n =
this.$i18n;\n return i18n._t.apply(i18n, [ key, i18n.locale, i18n._getMessages(), this ].concat( values ))\n };\n\n
Vue.prototype.$tc = function (key, choice) {\n var values = [], len = arguments.length - 2;\n while ( len-- > 0 )
values[ len ] = arguments[ len + 2 ];\n\n var i18n = this.$i18n;\n return i18n._tc.apply(i18n, [ key, i18n.locale,
i18n._getMessages(), this, choice ].concat( values ))\n };\n\n Vue.prototype.$te = function (key, locale) {\n var
i18n = this.$i18n;\n return i18n._te(key, i18n.locale, i18n._getMessages(), locale)\n };\n\n Vue.prototype.$d =
function (value) {\n var ref;\n\n var args = [], len = arguments.length - 1;\n while ( len-- > 0 ) args[ len ] =
arguments[ len + 1 ];\n return (ref = this.$i18n).d.apply(ref, [ value ].concat( args ))\n };\n\n Vue.prototype.$n =
function (value) {\n var ref;\n\n var args = [], len = arguments.length - 1;\n while ( len-- > 0 ) args[ len ] =
arguments[ len + 1 ];\n return (ref = this.$i18n).n.apply(ref, [ value ].concat( args ))\n };\n}\n\n/* */\n\nvar mixin
= {\n beforeCreate: function beforeCreate () {\n var options = this.$options;\n options.i18n = options.i18n ||
(options.__i18n ? {} : null);\n\n if (options.i18n) {\n
if (options.i18n instanceof VueI18n) {\n
// init locale
messages via custom blocks\n
if (options.__i18n) {\n
try {\n
var localeMessages = {};\n
options.__i18n.forEach(function (resource) {\n
localeMessages = merge(localeMessages,
JSON.parse(resource));\n
});\n
Object.keys(localeMessages).forEach(function (locale) {\n
options.i18n.mergeLocaleMessage(locale, localeMessages[locale]);\n
});\n
} catch (e) {\n
if

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function bind (el, binding, vnode) {
  if (!assert(el, vnode)) { return }

  t(el, binding, vnode);
}

function update (el, binding, vnode, oldVNode) {
  if (!assert(el, vnode)) { return }

  var i18n = vnode.context.$i18n;
  if (localeEqual(el, vnode) &&
    (looseEqual(binding.value, binding.oldValue) &&
    looseEqual(el._localeMessage, i18n.getLocaleMessage(i18n.locale)))) { return }

  t(el, binding, vnode);
}

function unbind (el, binding, vnode, oldVNode) {
  var vm = vnode.context;
  if (!vm) {
    warn('Vue instance does not exists in VNode context');
    return
  }

  el.textContent = '';
  el._vt = undefined;
  delete el._locale;
  delete el._localeMessage;
  delete el._localeMessages;
}

function assert (el, vnode) {
  var vm = vnode.context;
  if (!vm) {
    warn('Not a Vue instance');
    return
  }

  return true;
}

function localeEqual (el, vnode) {
  var elLocale = el._locale;
  var locale = vnode._locale;

  locale = i18n.locale;

  return elLocale.locale !== locale;
}

function processEnv (val) {
  if (process.env.NODE_ENV !== 'production') {
    return val
  }

  if (val === undefined) {
    return null
  }

  return val
}

var component = {
  name: 'i18n',
  functional: true,
  props: {
    tag: {
      type: String,
      default: 'span'
    },
    path: {
      type: String,
      required: true
    },
    locale: {
      type: String
    },
    places: {
      type: [Array, Object]
    }
  },
  render: function render (h, ref) {
    var props = ref.props;
    var data = ref.data;
    var children = ref.children;
    var parent = ref.parent;

    var i18n = parent.$i18n;

    children = (children || []).filter(function (child) {
      return child.tag || (child.text = child.text.trim())
    });

    if (!i18n) {
      warn("Cannot find VueI18n instance!");
      return children
    }

    var path = props.path;
    var locale = props.locale;

    var params = {};
    var places = props.places || {};

    var hasPlaces = Array.isArray(places)
      ? places.length > 0
      : Object.keys(places).length > 0;

    var everyPlace = children.every(function (child) {
      if (child.data && child.data.attrs) {
        var place = child.data.attrs.place;
        return (typeof place !== 'undefined') && place !== ''
      }
    });

    if (process.env.NODE_ENV !== 'production' && hasPlaces && children.length > 0 &&
      !everyPlace) {
      warn('If places prop is set, all child elements must have place prop set.');
    }

    if (Array.isArray(places)) {
      places.forEach(function (place, i) {
        params[i] = place;
      });
    } else {
      Object.keys(places).forEach(function (key) {
        params[key] = places[key];
      });
    }

    var key = everyPlace
      ? ("" + (child.data.attrs.place))
      : ("" + i);

    var localeMessages = i18n.localeMessages(locale, key);

    if (localeMessages) {
      return localeMessages
    }

    return h(child.tag, child.data, child.text)
  }
};
warn('Vue instance does not exists in VNode context');

function localeEqual (el, vnode) {
  var vm = vnode.context;
  return el._locale === vm.$i18n.locale
}

function t (el, binding, vnode) {
  var value = binding.value;
  var ref = parseValue(value);
  var path = ref.path;
  var locale = ref.locale;
  var args = ref.args;
  var choice = ref.choice;

  if (!path) {
    warn('`path` is required in v-t directive');
    return
  }

  if (!choice) {
    warn('VueI18n instance does not exists in Vue instance');
    return false
  }

  var vm = vnode.context;
  if (choice) {
    el._vt = el.textContent = (vm.$i18n).tc.apply(vm.$i18n, [path, choice].concat( makeParams(locale, args) ));
  } else {
    el._vt = el.textContent = (vm.$i18n).t.apply(vm.$i18n, [path].concat( makeParams(locale, args) ));
  }
  el._locale = vm.$i18n.locale;
  el._localeMessage = vm.$i18n.getLocalizedMessage(vm.$i18n.locale);
}

function parseValue (value) {
  var path;
  var locale;
  var args;
  var choice;

  if (typeof value === 'string') {
    path = value;
  } else if (isPlainObject(value)) {
    path = value.path;
    locale = value.locale;
    args = value.args;
    choice = value.choice;
  }

  return { path: path, locale: locale, args: args, choice: choice }
}

function makeParams (locale, args) {
  var params = [];

  locale && params.push(locale);
  if (args) {
    params.push(args);
  }

  return params
}
= 4;\nvar IN_SINGLE_QUOTE = 5;\nvar IN_DOUBLE_QUOTE = 6;\nvar AFTER_PATH = 7;\nvar ERROR =
8;\n\nvar pathStateMachine = [];\n\npathStateMachine[BEFORE_PATH] = {\n 'ws': [BEFORE_PATH],\n 'ident':
[IN_IDENT, APPEND],\n '[': [IN_SUB_PATH],\n 'eof': [AFTER_PATH]\n};\n\npathStateMachine[IN_PATH] =
{\n 'ws': [IN_PATH],\n '.': [BEFORE_IDENT],\n '[': [IN_SUB_PATH],\n 'eof':
[AFTER_PATH]\n};\n\npathStateMachine[BEFORE_IDENT] = {\n 'ws': [BEFORE_IDENT],\n 'ident':
[IN_IDENT, APPEND],\n '0': [IN_IDENT, APPEND],\n 'number': [IN_IDENT,
APPEND]\n};\n\npathStateMachine[IN_IDENT] = {\n 'ident': [IN_IDENT, APPEND],\n '0': [IN_IDENT,
APPEND],\n 'number': [IN_IDENT, APPEND],\n 'ws': [IN_PATH, PUSH],\n '.': [BEFORE_IDENT, PUSH],\n
'[': [IN_SUB_PATH, PUSH],\n 'eof': [AFTER_PATH, PUSH]\n};\n\npathStateMachine[IN_SUB_PATH] = {\n
\"'\": [IN_SINGLE_QUOTE, APPEND],\n '\"': [IN_DOUBLE_QUOTE, APPEND],\n '[': [IN_SUB_PATH,
INC_SUB_PATH_DEPTH],\n ']': [IN_PATH, PUSH_SUB_PATH],\n 'eof': ERROR,\n 'else': [IN_SUB_PATH,
APPEND]\n};\n\npathStateMachine[IN_SINGLE_QUOTE] = {\n \"'\": [IN_SUB_PATH, APPEND],\n 'eof':
ERROR,\n 'else': [IN_SINGLE_QUOTE, APPEND]\n};\n\npathStateMachine[IN_DOUBLE_QUOTE] = {\n '\"':
[IN_SUB_PATH, APPEND],\n 'eof': ERROR,\n 'else': [IN_DOUBLE_QUOTE, APPEND]\n};\n\n/**\n * Check if
an expression is a literal value.\n */\n\nvar literalValueRE = /^\\s?(?:true|false|?[\\d.]+|'[^']*'|\"[^\"]*\")\\s?$/;\nfunction isLiteral (exp) {\n return literalValueRE.test(exp)\n}\n\n/**\n * Strip
quotes from a string\n */\n\nfunction stripQuotes (str) {\n var a = str.charCodeAt(0);\n var b =
str.charCodeAt(str.length - 1);\n return a === b && (a === 0x22 || a === 0x27)\n ? str.slice(1, -1)\n :
str\n}\n\n/**\n * Determine the type of a character in a keypath.\n */\n\nfunction getPathCharType (ch) {\n if (ch
=== undefined || ch === null) { return 'eof' }\n\n var code = ch.charCodeAt(0);\n\n switch (code) {\n case 0x5B:
// [\n case 0x5D: // ]\n case 0x2E: // .\n case 0x22: // \"\n case 0x27: // '\n
return ch\n\n case 0x5F: // _\n
case 0x24: // $\n case 0x2D: // -\n
return 'ident'\n\n case 0x20: // Space\n case 0x09: // Tab\n case 0x0A:
// Newline\n case 0x0D: // Return\n case 0xA0: // No-break space\n case 0xFEFF: // Byte Order Mark\n
case 0x2028: // Line Separator\n case 0x2029: // Paragraph Separator\n
return 'ws'\n }\n\n return
'ident'\n}\n\n/**\n * Format a subPath, return its plain form if it is\n * a literal string or number. Otherwise prepend
the\n * dynamic indicator (*).\n */\n\nfunction formatSubPath (path) {\n var trimmed = path.trim();\n // invalid
leading 0\n if (path.charAt(0) === '0' && isNaN(path)) { return false }\n\n return isLiteral(trimmed) ?
stripQuotes(trimmed) : '*' + trimmed\n}\n\n/**\n * Parse a string path into an array of segments\n */\n\nfunction
parse$1 (path) {\n var keys = [];\n var index = -1;\n var mode = BEFORE_PATH;\n var subPathDepth = 0;\n var
c;\n var key;\n var newChar;\n var type;\n var transition;\n var action;\n var typeMap;\n var actions = [];\n\n
actions[PUSH] = function () {\n if (key !== undefined) {\n
keys.push(key);\n
key = undefined;\n }\n
};\n\n actions[APPEND] = function () {\n if (key === undefined) {\n
key = newChar;\n } else {\n
key +=
newChar;\n }\n };\n\n actions[INC_SUB_PATH_DEPTH] = function () {\n actions[APPEND]();\n
subPathDepth++;\n };\n\n actions[PUSH_SUB_PATH] = function () {\n if (subPathDepth > 0) {\n
subPathDepth--;\n
mode = IN_SUB_PATH;\n
actions[APPEND]();\n } else {\n
subPathDepth = 0;\n
key = formatSubPath(key);\n
if (key === false) {\n
return false\n
} else {\n
actions[PUSH]();\n
}\n }\n };\n\n function maybeUnescapeQuote () {\n var nextChar = path[index + 1];\n if ((mode ===
IN_SINGLE_QUOTE && nextChar === \"'\") ||\n
(mode === IN_DOUBLE_QUOTE && nextChar === '\"'))
{\n
index++;\n
newChar = '\\\\' + nextChar;\n
actions[APPEND]();\n
return true\n }\n }\n\n while
(mode !== null) {\n index++;\n c = path[index];\n\n if (c === '\\\\' && maybeUnescapeQuote()) {\n
continue\n }\n\n type = getPathCharType(c);\n typeMap = pathStateMachine[mode];\n transition =
typeMap[type] || typeMap['else'] || ERROR;\n\n if (transition === ERROR) {\n
return // parse error\n }\n\n
mode = transition[0];\n action = actions[transition[1]];\n if (action) {\n
newChar = transition[2];\n
newChar = newChar === undefined\n
? c\n
: newChar;\n
if (action() === false) {\n
return\n
}\n
}\n\n if (mode === AFTER_PATH) {\n
return keys\n }\n }\n}\n\n\n\n\n\nvar I18nPath = function I18nPath
() {\n this._cache = Object.create(null);\n};\n\n/**\n * External parse that check for a cache hit first\n
*/\nI18nPath.prototype.parsePath = function parsePath (path) {\n var hit = this._cache[path];\n if (!hit) {\n hit =
parse$1(path);\n if (hit) {\n
this._cache[path] = hit;\n }\n }\n return hit || []\n};\n\n/**\n * Get path value

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from path string
 */
I18nPath.prototype.getPathValue = function getPathValue (obj, path) { 
  if (!isObject(obj)) {
    return null

  var paths = this.parsePath(path);
  if (paths.length === 0) {
    return null
  } else {

    var paths = this.parsePath(path);
    if (paths.length === 0) {
      return null
    } else {

      var length = paths.length;
      var last = obj;
      var i = 0;
      while (i < length) {
        var value = last[paths[i]];
        if (value === undefined) {
          return null
        }
        last = value;
        i++;
      }

      return last
    }
  }

  var numberFormatKeys = [
    'style',
    'currency',
    'currencyDisplay',
    'useGrouping',
    'minimumIntegerDigits',
    'minimumFractionDigits',
    'maximumFractionDigits',
    'minimumSignificantDigits',
    'maximumSignificantDigits',
    'localeMatcher',
    'formatMatcher'
  ];

  var linkKeyMatcher = /
  var linkKeyPrefixMatcher = /^@
  var bracketsMatcher = /
  var formatters = {
    'upper': function (str) { return str.toLocaleUpperCase(); },
    'lower': function (str) { return str.toLocaleLowerCase(); }
  };
VueI18n.prototype._getMessages = function _getMessages () {
  return this._vm.messages }

VueI18n.prototype._getDateTimeFormats = function _getDateTimeFormats () {
  return this._vm.dateTimeFormats }

VueI18n.prototype._getNumberFormats = function _getNumberFormats () {
  return this._vm.number Formats }

VueI18n.prototype._warnDefault = function _warnDefault (locale, key, result, vm, values) {
  if (!isNull(result)) { return result }
  if (this._missing) {
    var missingRet = this._missing.apply(null,
      [locale, key, vm, values]);
    if (typeof missingRet === 'string') {
      return missingRet
    } else {
      if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
        warn("Cannot translate the value of keypath '" + key + ", value: " +
          val + " Use the value of keypath as default." +
          key + ": " + val + ");
      }
    }
    return key
  }
}

VueI18n.prototype._isFallbackRoot = function _isFallbackRoot (val) {
  return !val && !isNull(this._root) && this._fallbackRoot
}

VueI18n.prototype._interpolate = function _interpolate (locale, message, key, host, interpolateMode, values, visitedLinkStack) {
  if (!message) { return null }

  var pathRet = this._path.getPathValue(message, key);
  if (Array.isArray(pathRet) || isPlainObject(pathRet)) { return pathRet }

  var ret;
  if (isNull(pathRet)) {
    /* istanbul ignore else */
    if (isPlainObject(message)) {
      ret = message[key];
      if (typeof ret !== 'string') {
        if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
          warn(("Value of key '" + key + "' is not a string!"));
        }
        return null
      }
    } else {
      return null
    }
  } else {
    /* istanbul ignore else */
    if (typeof pathRet === 'string') {
      ret = pathRet;
    } else {
      if (process.env.NODE_ENV !== 'production' && !this._silentTranslationWarn) {
        warn(("Value of key '" + key + "+ key + "+" is not a string!"));
      }
      return null
    }
  }

  // Check for the existence of links within the translated string
  if (ret.indexOf('@:') >= 0 || ret.indexOf('@.') >= 0) {
    return this._link(locale, message, ret, host, interpolateMode, values, visitedLinkStack);
  }

  var ret2 = this._render(ret, interpolateMode, values);
  return ret2
};

VueI18n.prototype._link = function _link (locale, message, str, host, interpolateMode, values, visitedLinkStack) {
  var this$1 = this;

  var ret = str;

  // Match all the links within the local
  // We are going to replace each of\'\' them with its translation\'\' var matches = ret.match(linkKeyMatcher);
  for (var idx in matches) {
    // ie compatible: filter custom array
    // prototype method
    if (matches.hasOwnProperty(idx)) {
      var link = matches[idx];
      var linkKeyPrefixMatches = link.match(linkKeyPrefixMatcher);
      var linkPrefix = linkKeyPrefixMatches[0];
      var formatterName = linkKeyPrefixMatches[1];

      // Remove the leading @:, @.case: and the brackets
      var linkPlaceholder = link.replace(linkPrefix, '').replace(bracketsMatcher, '');

      if (visitedLinkStack.includes(linkPlaceholder)) {
        if (process.env.NODE_ENV !== 'production') {
          warn("Circular reference found. \"" + link + "\" is already visited in the chain of " + (visitedLinkStack.reverse().join(' <- ')));
        }
        return ret
      }
      visitedLinkStack.push(linkPlaceholder);

      // Translate the link\'\' var translated = this$1._interpolate(locale, message, linkPlaceholder, host, interpolateMode, values, visitedLinkStack);
      var varPath = this$1._getTranslateValue(message, key, host, interpolateMode, values);
      var varPathRet = this$1._getInterpolateValue(message, key, host, interpolateMode, values, visitedLinkStack);
      var varPath = varPath || varPathRet;
      var translated = this$1._warnDefault(locale, linkPlaceholder, translated, host, Array.isArray(values) ? values : [values]);
      if (this$1._isFallbackRoot(translated)) {
        if (process.env.NODE_ENV !== 'production' && this$1._silentTranslationWarn) {
          warn("Fall back to translate the link placeholder \"" + linkPlaceholder + \"" with root locale.\"\"));
        }
      }
      return ret
    }
  }

  return ret
};

VueI18n.prototype._render = function _render (message, interpolateMode, values) {
  var ret = this._formatter.interpolate(message, values);
  return interpolateMode === 'string' ? ret : ret.join('')
};
```javascript
function mergeNumberFormat(locale, format) {
    // Code...
}

function localizeNumber(locale, format) {
    // Code...
}

function _d(value, locale, key) {
    // Code...
}

function _localizeDateTime(value, locale, fallback, numberFormats, key) {
    // Code...
}
```

```javascript
var ret = this._localizeNumber(value, locale, fallback, numberFormats, key, options);
```

```javascript
if (isNull(formats) || isNull(formats[key])) {
    return null
} else {
    var format = formats[key];
    var id = locale + '__' + key;
    var formatter = this._numberFormatters[id];
    if (options) {
        // If options specified - create one time number formatter
        formatter = new Intl.NumberFormat(_locale, Object.assign({}, format, options));
    } else {
        var id = _locale + '__' + key;
        var formatter = this._numberFormatters[id];
    }
    return formatter.format(value)
}
```

```javascript
var locale = this.locale;
var key = null;

if (args.length === 1) {
    if (typeof args[0] === 'string') {
        key = args[0];
    }
    if (typeof args[1] === 'string') {
        key = args[1];
    }
}
```

```javascript
if (isNull(formats) || isNull(formats[key])) {
    return null
} else {
    var format = formats[key];
    var id = _locale + '__' + key;
    var formatter = this._numberFormatters[id];
    if (options) {
        // If options specified - create one time number formatter
        formatter = new Intl.NumberFormat(_locale, Object.assign({}, format, options));
    } else {
        var id = _locale + '__' + key;
        var formatter = this._numberFormatters[id];
    }
    return formatter.format(value)
}
```
```javascript
args[0];
    } else if (isObject(args[0])) {
      if (args[0].locale) {
        locale = args[0].locale;
      }
      if (args[0].key) {
        key = args[0].key;
      }
    } else if (args.length === 2) {
      if (typeof args[0] === 'string') {
        key = args[0];
      }
      if (typeof args[1] === 'string') {
        locale = args[1];
      }
    }

    // Filter out number format options only
    options = Object.keys(args[0]).reduce(function (acc, key) {
      if (numberFormatKeys.includes(key)) {
        return acc;
      }
      return acc;
    }, null);

    // Filter out number format options only
    options = Object.keys(args[0]).reduce(function (acc, key) {
      if (numberFormatKeys.includes(key)) {
        acc[key] = args[0][key];
      }
      return acc;
    }, {});

    // Filter out number format options only
    options = Object.keys(args[0]).reduce(function (acc, key) {
      if (numberFormatKeys.includes(key)) {
        acc[key] = args[0][key];
      }
      return acc;
    }, {});

    return this._n(value, locale, key, options);
  }

  Object.defineProperties(VueI18n.prototype, prototypeAccessors);

  VueI18n.availabilities = {
    dateTimeFormat: canUseDateTimeFormat,
    numberFormat: canUseNumberFormat
  };
  VueI18n.install = install;
  VueI18n.version = '8.4.0';

  export default VueI18n;
```
"ContentPlaceholder.vue":"\n<template>
  <div>
    <h2>{{ $t('donate-form.support') }}</h2>
    <p>{{ $t('donate-form.introduction') }}</p>
    <div class="donate-form__payment">
      <form action="/checkout.fundjournalism.org/memberform" method="get" target="_blank">
        <h3 class="donate-form__payment__title">
          {{ $t('donate-form.join-heading') }}
        </h3>
        <div class="input-group">
          <label>{{ $t('donate-form.label') }} </label>
          <input type="number" min="0" value="{{ amount }}" @change="amountIsPristine = false" @input="amount = $event.target.value"/>
        </div>
        <button type="button" @click="installmentPeriod = 'monthly'">{{ $t('donate-form.frequency.monthly') }}</button>
        <button type="button" @click="installmentPeriod = 'yearly'">{{ $t('donate-form.frequency.yearly') }}</button>
        <button type="button" @click="installmentPeriod = null">{{ $t('donate-form.frequency.onetime') }}</button>
      </form>
    </div>
    <div class="mt-4">
      {{ $t('donate-form.result.sentence', { target: changeThe }) }}
    </div>
  </div>
</template>
\n"
We usually put this form inside a modal. 

We use this form to encourage donations. 

We usually put this form inside a modal. 

We use this form to encourage donations.

We usually put this form inside a modal. 

We use this form to encourage donations.
doResolve(bind.then, newValue, self); return; } } } } else {
  self._state = 2;
  self._value = newValue;
  doResolve(then, newValue, self);
  return;
}
}

final(this, newValue); try {
fn(resolve, newValue, self);
}

rej(this, reason, newValue, self);
}

Promise.prototype['catch'] = function(onRejected) {
  return this.then(null, onRejected);
};

Promise.prototype.then = function(onFulfilled, onRejected) {
  // @ts-ignore
  var prom = new this.constructor(noop);

  handle(this, new Handler(onFulfilled, onRejected, prom));
  return prom;
};

Promise.prototype['finally'] = promiseFinally;

Promise.all = function(arr) {
  return new Promise(function(resolve, reject) {
    if (arr.length === 0)
      throw new TypeError('Promise.all accepts an array');
    var args = Array.prototype.slice.call(arr);
    if (args.length === 0)
      return resolve([]);
    var remaining = args.length;

    function res(i, val) {
      try {
        if (val && (typeof val === 'object' || typeof val === 'function')) {
          var then = val.then;
          if (typeof then === 'function') {
            then.call(val, function(val) {
              res(i, val);
            }, reject);
            return;
          }
        }
        args[i] = val;
        if (--remaining === 0) {
          resolve(args);
        }
      }
      catch (ex) {
        reject(ex);
      }
    }

    for (var i = 0; i < args.length; i++) {
      res(i, args[i]);
    }
  })
};

Promise.resolve = function(value) {
  if (value && typeof value === 'object' && value.constructor === Promise) {
    return value;
  }

  return new Promise(function(resolve) {
    resolve(value);
  });
};

Promise.reject = function(value) {
  return new Promise(function(resolve, reject) {
    reject(value);
  });
};

Promise.race = function(values) {
  return new Promise(function(resolve, reject) {
    for (var i = 0, len = values.length; i < len; i++) {
      values[i].then(resolve, reject);
    }
  });
};

// Use polyfill for setImmediate for performance gains
Promise._immediateFn =
  (typeof setImmediate === 'function' &&
  function(fn) {
    setImmediate(fn);
  }) ||
  function(fn) {
    setTimeoutFunc(fn, 0);
  };

Promise._unhandledRejectionFn = function _unhandledRejectionFn(err) {
  if (typeof console !== 'undefined'
  && console) {
    console.warn('Possible Unhandled Promise Rejection:', err); // eslint-disable-line no-console
  }
};

export default Promise;

import memoize from 'lodash/memoize'
import flatten from 'lodash/flatten'
import Promise from 'promise-polyfill';

export const injectAsset = memoize(function(file) {
  return new Promise(resolve => {
    const parent = document.querySelector('body') ||
      document.querySelector('head');
    const parts = file.split('.');
    const ext = parts[parts.length-1].toLowerCase();

    switch(ext) {
      case 'js':
        var script = document.createElement('script');
        script.setAttribute("type", "text/javascript");
        script.onload = resolve;
        parent.appendChild(script);
        break;
      case 'css':
        var css = document.createElement('link');
        css.setAttribute("rel", "stylesheet");
        css.onload = resolve;
        parent.appendChild(css);
        break;
      default:
        parent.appendChild(file);
        break;
    }
  })
})

export const injectAssets = function() {
  const files = flatten(arguments)
  return new Promise(resolve => {
    var filesLoaded = 0;
    var allFilesLoaded = function() {
      if (++filesLoaded == files.length)
        resolve;
    }

    for (var i = 0; i < files.length; i++) {
      injectAsset(files[i]).then(allFilesLoaded)
    }
  })
};

import every from 'lodash/every'
import { injectAssets } from './assets'
// Will hold the pym instance
var pymChild = null
// URL parameters generated by Pym
const pymParams = ['initialWidth', 'childId', 'parentUrl', 'parentTitle']

export default class IframeResizer {
  constructor () {
    this.initializer =

As long as we avoid
* - import * as Object from "utils/object"
* all unused exports should be removed by tree-shaking.
*/

if (typeof Object.assign !== 'function') {
  Object.assign = function (target, varArgs) {
      // .length of function is 2
      if (target == null) {
        // TypeError
        throw new TypeError('Cannot convert undefined or null to object');
      }
      var to = Object(target);
      for (var index = 0; index < arguments.length; index++) {
        var nextSource = arguments[index];
        if (nextSource !== null) {
          // Skip over if undefined or null
          for (var nextKey in nextSource) {
            if (nextKey in nextSource) {
              // Avoid bugs when hasOwnProperty is shadowed
              if (Object.prototype.hasOwnProperty.call(nextSource, nextKey)) {
                to[nextKey] = nextSource[nextKey];
              }
            }
          }
        }
      }
      return to;
  };
}

// @link https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is#Polyfill
if (!Object.is) {
  Object.is = function (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 x !== x && y !== y;
    }
  };
}

export var assign = Object.assign;
export var getOwnPropertyNames = Object.getOwnPropertyNames;
export var keys = Object.keys;
export var defineProperties = Object.defineProperties;
export var defineProperty = Object.defineProperty;
export var freeze = Object.freeze;
export var getOwnPropertyDescriptor = Object.getOwnPropertyDescriptor;
export var getPrototypeOf = Object.getPrototypeOf;
export var create = Object.create;
export var isFrozen = Object.isFrozen;
export var is = Object.is;

export function readonlyDescriptor() {
  return { enumerable: true, configurable: false, writable: false };
}

// Production steps of ECMA-262, Edition 6, 22.1.2.1
// es6-ified by @alexsharegan
if (!Array.from) {
  Array.from = function () {
    var toStr = Object.prototype.toString;
    var isCallable = function isCallable(fn) {
      return typeof fn === 'function' || toStr.call(fn) === '[object Function]';
    };
    var toInteger = function toInteger(value) {
      var number = Number(value);
      if (isNaN(number)) {
        return 0;
      }
      if (number === 0 || !isFinite(number)) {
        return number;
      }
      return (number > 0 ? 1 : -1) * Math.floor(Math.abs(number));
    };
    var maxSafeInteger = Math.pow(2, 53) - 1;
    var toLength = function toLength(value) {
      return Math.min(Math.max(toInteger(value), 0), maxSafeInteger);
    };
    var lengthOfIndexPropertyOf = Object.prototype.lengthOfIndexPropertyOf;
    var arrayIsInexactLengthObject = lengthOfIndexPropertyOf !== lengthOfIndexPropertyOf;
    var objectIsInexactLengthObject = lengthOfIndexPropertyOf !== lengthOfIndexPropertyOf;
    var arrayIsStrictlyLengthObject = arrayIsInexactLengthObject && toLength(2 ** 53) == 2 ** 53;
    var objectIsStrictlyLengthObject = objectIsInexactLengthObject && toLength(2 ** 53) == 2 ** 53;
    var fromIndex = function () {
      var arrayLike = arguments[0];
      var length = arrayLike.length;
      var index = arguments[1] || 0;
      if (length > index) {
        return arrayLike[index];
      } else {
        return void 0;
      }
    };
    var fromEntries = function (entries) {
      var result = new Array(entries.length);
      for (var i = 0; i < entries.length; i++) {
        result[i] = entries[i][1];
      }
      return result;
    };
    var toIndexedObject = function (object) {
      return object; // @@tojs
    };

    // The length property of the from method is 1.
    return function from(arrayLike /*, mapFn, thisArg */) {
      // 1. Let C be the this value.
      var C = this;
      // 2. Let items be ToObject(arrayLike).
      var items = Object(arrayLike);
      // 3. ReturnIfAbrupt(items).
      if (arrayLike == null) {
        throw new TypeError('Array.from requires an array-like object - not null or undefined');
      }
      // 4. If mapFn is undefined, then let mapping be false.
      var mapFn = arguments.length > 1 ? arguments[1] : void undefined;
      var T = void 0;
      if (typeof mapFn !== 'undefined') {
        // 5. a If IsCallable(mapFn) is false, throw a TypeError exception.
        if (!isCallable(mapFn)) {
          throw new TypeError('Array.from: when provided, the second argument must be a function');
        }
        var items = Object(arrayLike);
        // 5. b. If thisArg was supplied, let T be thisArg; else let T be undefined.
        if (arguments.length > 2) {
          var T = arguments[2];
        }
        // 6. Let len be ToLength(items.length).
        var len = toLength(items.length);
        // 7. If IsConstructor(C) is true, then
        // 13. a. Let A be the result of calling the [[Construct]] internal method
        // of C with an argument list containing the single item len.
        var A = isCallable(mapFn) ? Object(new C(len)) : new Array(len);
        // 8. Let k be 0.
        var k = 0;
        // 9. Repeat, while k < len…
        while (k < len) {
          var kValue = void 0;
          if (kValue === void 0) {
            kValue = items[k];
          } else {
            A[k] = kValue;
          }
          k += 1;
        }
        // 10. Let lenValue be Get(items, 'length').
        var lenValue = toLength(items.length);
        // 11. Let len be ToLength(lenValue).
        var len = toLength(lenValue);
        var A.length = len;
        // 20. Return A.
        return A;
      }
      // 5. c. Else
      // 6. a. If IsCallable(mapFn) is false, throw a TypeError exception.
      if (!isCallable(mapFn)) {
        throw new TypeError('Array.from: when provided, the second argument must be a function');
      }
      // 5. b. If thisArg was supplied, let T be thisArg; else let T be undefined.
      if (arguments.length > 2) {
        var T = arguments[2];
      }
      // 6. a. Let A be
      // 7. Let len be ToLength(lenValue).
      var len = toLength(lenValue);
      var A.length = len;
      // 20. Return A.
      return A;
    };
    // 1. Let O be ? ToObject(this_value).
    // 2. Let len be ToLength(? Get(O, 'length')).
    return function (key) {
      if (key < len) {
        return A[key];
      }
      return void 0;
    };
    // 3. ReturnIfAbrupt(result).
3. If IsCallable(predicate) is false, throw a TypeError exception.

4. If thisArg was supplied, let T be thisArg; else let T be undefined.

5. Let k be 0.

6. Repeat, while k < len while (k < len) (a. Let Pk be !ToString(k)).

7. Return undefined.

8. Given an array of properties or an object of property keys, *plucks all the values off the target object.*

9. Determine if an HTML Element.*

10. El".import { keys } from './object';

11. In a CSS check.*

12. Element'*

13. SelectAll

14. Select

15. matches

16. closest

17. // Since we don't support IE < 10, we can use the \"Matches\" version of the polyfill for speed.*

18. Prefer native implementation over polyfill function

19. Prefer native implementation over polyfill function

20. +

21. /* istanbul ignore next */

22. /* istanbul ignore next */

23. // Prefer native implementation over polyfill function

24. // Prefer native implementation over polyfill function

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33. // Prefer native implementation over polyfill function

34. // Prefer native implementation over polyfill function
null : el; \n}; \n// Get an element given an ID
export var getById = function getById(id) { \n  return document.getElementById(id); \n}; \n// Test if an element has a class
export var hasClass = function hasClass(el, className) { \n  return el.classList.contains(className); \n}; \n// Set an attribute on an element
export var setAttr = function setAttr(el, attr, value) { \n  el.setAttribute(attr, value); \n}; \n// Remove an attribute from an element
export var removeAttr = function removeAttr(el, attr) { \n  el.removeAttribute(attr); \n}; \n// Get computed style object for an element
export var getCS = function getCS(el) { \n  return window.getComputedStyle(el); \n}; \n// Return an element's offset wrt document element
export var offset = function offset(el) { \n  if (el) { \n    if (!el.getClientRects().length) { \n      return { top: 0, left: 0 }; \n    } \n    var bcr = getBCR(el); \n    var win = el.ownerDocument.defaultView; \n    return { \n      top: bcr.top + win.pageYOffset, \n      left: bcr.left + win.pageXOffset \n    }; \n  } \n}; \n// Return an element's offset wrt to it's offsetParent
export var position = function position(el) { \n  if (!el) { \n    return; \n  } \n  var parentOffset = { top: 0, left: 0 }; \n  var offsetSelf = void 0; \n  var offsetParent = void 0; \n  if (getCS(el).position === 'fixed') { \n    offsetSelf = getBCR(el); \n  } else { \n    offsetSelf = el; \n  } \n  var doc = el.ownerDocument; \n  if (el.offsetParent) \n    doc = el.offsetParent; \n  var documentElement; \n  while (offsetParent && (offsetParent === doc.body || offsetParent === doc.documentElement) && getCS(offsetParent).position !== 'static') { \n    offsetParent += el; \n  } \n  offsetParent = getOffsetParent(el); \n  parentOffset = getOffsetParent(); \n  parentOffset.top += parseFloat(getCS(parentOffset).borderTopWidth); \n  parentOffset.left += parseFloat(getCS(parentOffset).borderLeftWidth); \n  return { \n    top: offsetSelf.top - parentOffset.top - parseFloat(getCS(el).marginTop), \n    left: offsetSelf.left - parentOffset.left - parseFloat(getCS(el).marginLeft) \n  }; \n};
import Link, { propsFactory as linkPropsFactory } from '../link/link';

var btnProps = {
  block: true,
  defaultActiveClass: 'primary',
  disabled: false
};

function computeRel(_ref2) {
  var target = _ref2.target,
      rel = _ref2.rel;

  if (target === '_blank' && rel === null) {
    return 'noopener';
  }
  return rel || 'none';
}

export var computed = {
  linkProps: function linkProps() {
    var linkProps = {};
    var propKeys = keys(props);

    for (var i = 0; i < propKeys.length; i++) {
      var prop = propKeys[i];
      // Memo;
      linkProps[prop] = this[prop];
    }

    return linkProps;
  }
};

export default {
  functional: true,
  props: propsFactory(),
  render: function render(h, _ref4) {
    var props = _ref4.props,
        data = _ref4.data,
        parent = _ref4.parent,
        children = _ref4.children;

    var tag = computeTag(props, parent);

    if (tag === 'router-link') return void 0;

    var to = _ref4.to;

    if (to) {
      var href = computeHref(props, tag);
      var rel = computeRel(tag);
      var handler = clickHandlerFactory(_ref3);
      var suppliedHandler = _ref3.suppliedHandler,
          suppliedHref = _ref3.suppliedHref;
      var parent = _ref3.parent;
      var href = suppliedHref || computeHref(props, tag);
      var rel = computeRel(props);
      var eventType = props.type || 'click';
      var handler = clickHandlerFactory(_ref3);
      return function onClick(e) {
        if (disabled && e instanceof Event) {
          e.preventDefault();
        }
        // Kill the event loop attached to this specific EventTarget
        e.stopPropagation();
        // Kill the event loop attached to this specific EventTarget
        e.stopImmediatePropagation();
        // Stop scroll-to-top behavior or navigation.
        e.preventDefault();
        e.stopPropagation();
        // Kill the event loop attached to this specific EventTarget
        e.stopImmediatePropagation();

        var eventTarget = e.target;
        // We've already checked the parent.$router in computeTag,
        // so router-link means live router.
        // When deferring to Vue Router's router-link,
        // don't use the href attr at all.
        // Must return undefined for router-link to populate href.
        if (tag === 'router-link') return void 0;
        // Reconstruct href when 'to' used, but no router available
        if (!href) return void 0;
        // Hackback to 'to' prop (if 'to' is a string)
        if (typeof to === 'string') return to || null;
        // Fallback to 'to' prop (if 'to' is an object)
        if (typeof to === 'object')
          return (typeof to.to === 'string' ? to.to : null);
        // Fallback to `to` prop (if `to` is a string)
        if (typeof to === 'string') return to || null;
        // Fallback to `to` prop (if `to` is an object)
        if (typeof to === 'object')
          return (typeof to.to === 'string' ? to.to : null);
        // Fallback to `to` prop (if `to` is a string)
        if (typeof to === 'string') return to || null;
        // Fallback to `to` prop (if `to` is an object)
        if (typeof to === 'object')
          return (typeof to.to === 'string' ? to.to : null);

        if (!arrayIncludes(propsToOmit, prop)) {
          memo[prop] = freshLinkProps[prop];
        }

        return
    };

    if (isRouterLink && !parent.$router) {
      delete componentData.attrs.href;
    }

    var componentData = mergeData(data, {
      class: [props.active ? props.exactActiveClass : null, {
        block: false
      }],
      routerTag: {
        type: String,
        default: 'a'
      },
      routerType: {
        type: String,
        default: 'a'
      },
      to: {
        type: String,
        default: null
      },
      rel: {
        type: String,
        default: null
      },
      tag: {
        type: String,
        default: null
      },
      rel: {
        type: String,
        default: null
      },
      href: {
        type: String,
        default: null
      },
      target: {
        type: String,
        default: null
      },
      type: {
        type: String,
        default: null
      },
      exactActiveClass: {
        type: String,
        default: 'active'
      },
      replace: {
        type: Boolean,
        default: false
      },
      router: {
        type: String,
        default: null
      },
      target: {
        type: String,
        default: null
      },
      tag: {
        type: String,
        default: null
      },
      to: {
        type: String,
        default: null
      },
      rel: {
        type: String,
        default: null
      },
      href: {
        type: String,
        default: null
      },
      target: {
        type: String,
        default: null
      },
      type: {
        type: String,
        default: null
      },
      exactActiveClass: {
        type: String,
        default: 'active'
      }
    },
    replace: {
      type: Boolean,
      default: false
    },
    routerTag: {
      type: String,
      default: 'a'
    },
    to: {
      type: String,
      default: 'a'
    },
    rel: {
      type: String,
      default: 'a'
    },
    href: {
      type: String,
      default: 'a'
    },
    target: {
      type: String,
      default: 'a'
    },
    type: {
      type: String,
      default: 'a'
    },
    exactActiveClass: {
      type: String,
      default: 'active'
    }
  },
  memo: function memo(props) {
    var memo = {};
    memo[props] = freshLinkProps(props);
    return memo;
  },
  freshLinkProps: propsFactory()
};

function clickHandlerFactory(_ref3) {
  var disabled = _ref3.disabled,
      tag = _ref3.tag,
      href = _ref3.href,
      suppliedHandler = _ref3.suppliedHandler;

  if (!isRouterLink && href === '#') {
    delete componentData.attrs.href;
  }

  // We've already checked the parent.$router in computeTag,
  // so router-link means live router.
  // When deferring to Vue Router's router-link,
  // don't use the href attr at all.
  // Must return undefined for router-link to populate href.
  if (tag === 'router-link') return void 0;

  // Reconstruct href when 'to' used, but no router available
  if (!href) return void 0;

  // Hackback to 'to' prop (if 'to' is a string)
  if (typeof to === 'string') return to || null;
  // Fallback to `to` prop (if `to` is an object)
  if (typeof to === 'object')
    return (typeof to.to === 'string' ? to.to : null);
  // Fallback to `to` prop (if `to` is a string)
  if (typeof to === 'string') return to || null;
  // Fallback to `to` prop (if `to` is an object)
  if (typeof to === 'object')
    return (typeof to.to === 'string' ? to.to : null);

  if (!arrayIncludes(propsToOmit, prop)) {
    memo[prop] = freshLinkProps[prop];
  }

  return
    }

    if (!isRouterLink && href === '#') {
      delete componentData.attrs.href;
    }

    // If href prop exists on router-link (even undefined or null) it fails working on SSR
    if (!componentData.attrs.href) {
      return;
    }

    // when callback
    // will invoke the supplied handler if !props.disabled
    componentData[href] = (props.disabled ? assign(componentData[eventType], {}), handlers) : (function (tag, handlers) {
      return h(tag, componentData, children);
    });

    function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key, { value, enumerable: true, configurable: true, writable: true }); } else { obj[key] = value; } return obj; }

    import { assign, keys } from '../../utils/object';
    import { addClass, removeClass } from '../../utils/dom';
    import { concat } from '../../utils/array';
    import Link, { propsFactory as linkPropsFactory } from '../link/link';

    var btnProps = {
      block: true,
      defaultActiveClass: 'primary',
      disabled: false
    };
Safely register event listeners on the root Vue node.

```javascript
var BVRL = '__BV_root_listeners__';

export default {
  methods: {
    /**
     * Issue #569: collapse::toggle::state triggered too many times
     * @link https://github.com/bootstrap-vue/bootstrap-
     * arr2[i] = arr[i]; } return arr2; } else { return Array.from(arr); }

import { isArray } from '../utils/array';
/**
 * _toConsumableArray(arr) { if (Array.isArray(arr)) { for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) {
    // Concat will normalize the value to an array
    // without double wrapping an array value in an array.
    concat(listeners['update:pressed']).forEach(function (fn) { if (typeof fn === 'function') {
        fn(props,pressed); }
    })(props,pressed); } return arr2; } else { return Array.from(arr); }

import { mergeData } from 'vue-functional-data-merge';

var props = {
  type: String,
  default: null
};

methods: {
  safeId: function safeId() {
    var suffix = this.id || this.localId_ || null;
    if (!suffix) {
      return null;
    }
    suffix = String(suffix).replace(/\s+/g, '');
    return suffix;

    var localId_ = this.$id;
    function localId_() {
      if (!localId_) {
        localId_ = '__BVID__' + this._uid;
      }
      return localId_;
    }
    function bindToDOM(id, el) {
      return el.getAttribute('data-bv-id') === id;
    }
    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; }
    }
    function pluckProps(linkProps, props) : null,

    if (isToggle) {
      on.focusin = function (e) {
        if (e.type === 'focusin') {
          addClass(e.target, 'focus');
        } else if (isLink) {
          return;
        } else {
          return;
        }
      }
    }

    function handleFocus(evt) {
      if (evt.type === 'focusout') {
        removeClass(evt.target, 'focus');
      }
    }

    function click(e) {
      if (props.disabled && e instanceof Event) {
        e.stopPropagation();
        e.preventDefault();
      } else if (isToggle) {
        on.focusout = function (e) {
          if (e.type === 'focusout') {
            removeClass(e.target, 'focus');
          }
        }
      } else {
        return;
      }
    }
  }
};
```
individual components,
when a component registers a listener on root and is destroyed,
the node does not clear the callback.
This adds a non-reactive prop to a vm on the fly
in order to avoid object observation and its performance costs
* to something that needs no reactivity.
It should be highly unlikely there are any naming collisions.

```javascript
* @param {string} event
* @param {function} callback
* @chainable
* An listenOnRoot: function listenOnRoot(event, callback) { if (!this[BVRL] || !isArrary(this[BVRL])) { this[BVRL] = []; this[BVRL].push({ event: event, callback: callback }); this.$root.$on(event, callback); } return this; }
* Convenience method for calling vm.$emit on vm.$root
* @param {string} event
* @param {[]} args
* @chainable
* An emitOnRoot: function emitOnRoot(event) {
  for (var _len = arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; _key++) {
    args[_key - 1] = arguments[_key];
  }
  (this.$root = this.$root).$emit.apply(this.$root, [event].concat(_toConsumableArray(args))); return this;
}
```

```javascript
function beforeDestroy() {
  if (this[BVRL] && isArray(this[BVRL])) {
    while (this[BVRL].length > 0) {
      // shift to process in order
      var _BVRL$shift = this[BVRL].shift(),
      event = _BVRL$shift.event,
      callback = _BVRL$shift.callback;
      this.$root.$off(event, callback);
    }
  }
}
```

```javascript
var MutationObserver = window.MutationObserver || window.WebKitMutationObserver || window.MozMutationObserver;
  var eventListenerSupported = window.addEventListener;
  // Handle case where we might be passed a vue instance
  el = el ? el.$el || el : null;
  /* istanbul ignore next: dificult to test in JSDOM */
  if (!isElement(el)) {
    // We can't observe somthing that isn't an element
    return null;
  }

  var obs = null;
  /* istanbul ignore next: dificult to test in JSDOM */
  if (MutationObserver) {
    // Define a new observer
    obs = new MutationObserver(function (mutations) {
      var changed = false;
      // A Mutation can contain several change records, so we loop through them to see what has changed.
      // We break out of the loop early if any "significant" change has been detected
      for (var i = 0; i < mutations.length && !changed; i++) {
        // The muttion record
        var mutation = mutations[i];
        // Mutation Type
        var type = mutation.type;
        // DOM Node (could be any DOM Node type - HTMLElement, Text, comment, etc)
        var target = mutation.target;
        if (type === 'characterData' && target.nodeType === Node.TEXT_NODE) {
          changed = true;
        } else if (type === 'attributes') {
          changed = true;
        } else if (type === 'childList' &&
          (mutation.addedNodes.length > 0 || mutation.removedNodes.length > 0)) {
          // This includes HTML Element and Text Nodes being added/removed/re-arranged
          changed = true;
        } else if (eventListenerSupported) {
          // Legacy interface. most likely not used in modern browsers
          el.addEventListener('DOMNodeInserted', callback, false);
          el.addEventListener('DOMNodeRemoved', callback, false);
        }
      }
      // The mutation record
      var mutation = mutations[i];
      // Mutation Type
      var type = mutation.type;
      // DOM Node (could be any DOM Node type - HTML Element, Text, comment, etc)
      var target = mutation.target;
      if (!mutation || eventListenerSupported) {
        // We ignore nodes that are not TEXT (i.e. comments, etc) as they don't change layout
        changed = true;
      } else if (type === 'attributes') {
        changed = true;
      } else if (type === 'childList' &&
        (mutation.addedNodes.length > 0 || mutation.removedNodes.length > 0)) {
        // This includes HTML Element and Text Nodes being added/removed/re-arranged
        changed = true;
      } // We only call the callback if a change that could affect layout/size truly happened.
  } // Have the observer observe foo for changes in children, etc
  obs.observe(el, assign({ childList: true, subtree: true }), true)
}
```

```javascript
export default {
  SPACE: 32,
  ENTER: 13,
  ESC: 27,
  LEFT: 37,
  UP: 38,
  RIGHT: 39,
  DOWN: 40,
  SPACE: 32,
  ENTER: 13,
  ESC: 27,
  LEFT: 37,
  UP: 38,
  RIGHT: 39,
  DOWN: 40,
  PAGEUP: 33,
  PAGEDOWN: 34,
  HOME: 36,
  END: 35
};
```

```javascript
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) { Constructor = (function () { function Constructor internal; return (Constructor = protoProps || {} || Constructor).apply(this, arguments) || this; }, Constructor)
```

```javascript
var _addEventListner = el.addEventListener;
```

```javascript
el.addEventListener('DOMNodeInserted', callback, false);
```

```
else if (internal) {
// We return a reference to the observer so that
do.disconnect() can be called if necessary
// To reduce overhead when the root element is hidden
return obs;
} */

```

```javascript
// Have the observer observe foo for changes in children, etc
obs.observe(el, assign({ childList: true, subtree: true }, opts));
```

```javascript
if (eventListenerSupported) {
// Legacy interface. most likely not used in modern browsers
el.addEventListener('DOMNodeInserted', callback, false);
```

```javascript
el.addEventListener('DOMNodeRemoved', callback, false);
```

```
// We return a reference to the observer so that
do.disconnect() can be called if necessary
// To reduce overhead when the root element is hidden
return obs;
}
```

```javascript
// Log a warning message to the console with bootstrap-vue formatting sugar
* @param {string} message
* @param {boolean} istanbul ignore next: difficult to test in JSDOM
* if (isElement(el)) { // We can't observe something that isn't an element
* return null;
* } var obs = null;
```

```
// We only call the callback if a change that could affect layout/size truly happened.
```

```
// This includes HTML Element and Text Nodes being added/removed/re-arranged
```

```javascript
// DOM Node (could be any DOM Node type - HTML Element, Text, comment, etc)
var target = mutation.target;
if (!mutation || eventListenerSupported) {
```

```
// We only call the callback if a change that could affect layout/size truly happened.
```

```
// This includes HTML Element and Text Nodes being added/removed/re-arranged
```

```
// We only call the callback if a change that could affect layout/size truly happened.
```

```
// This includes HTML Element and Text Nodes being added/removed/re-arranged
```

```
// We only call the callback if a change that could affect layout/size truly happened.
```

```javascript
// Have the observer observe foo for changes in children, etc
obs.observe(el, assign({ childList: true, subtree: true }, opts));
```

```
// Have the observer observe foo for changes in children, etc
obs.observe(el, assign({ childList: true, subtree: true }, opts));
```

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```
vueTarget: _this4,
          target: _this4.lazy ? null : _this4.$refs.modal,
          relatedTarget: null
        });
      }
    }
  },

  // Event emitters
  emitEvent: function emitEvent(bvEvt) {
    this.$emit(bvEvt.type);
    this.$root.$emit('bv::modal::' + this.$root.$emit(bvEvt.type, bvEvt));
  },

  // Event Handlers
  onClickOut: function onClickOut(evt) {
    // If backdrop clicked, hide modal
    if (this.is_visible && this.noCloseOnBackdrop) {
      this.hide('backdrop');
    }
  },

  onEsc: function onEsc(evt) {
    // If ESC pressed, hide modal
    if (evt.keyCode === KeyCodes.ESC && this.is_visible && this.noCloseOnEsc) {
      this.hide('esc');
    }
  },

  // Focus control handlers
  focusFirst: function focusFirst() {
    // Don't try and focus if we are SSR
    if (typeof document === 'undefined') {
      return;
    }
    var content = this.$refs.content;
    var modal = this.$refs.modal;
    var activeElement = document.activeElement;
    if (activeElement && content && content.contains(activeElement)) {
      // If activeElement is child of content, no need to change focus
    } else if (content) {
      if (modal) {
        modal.scrollTop = 0;
      }
      // Focus the modal content wrapper
      content.focus();
    }
  },

  // Adjust fixed content padding
  selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
    var actualPadding = el.style.paddingRight;
    var calculatedPadding = computedStyle(el).paddingRight || 0;
    setAttr(el, 'data-padding-right', actualPadding);
    el.style.paddingRight = parseFloat(calculatedPadding) + scrollbarWidth + 'px';
    if (this.isBodyOverflowing & & isModalOverflowing) {
      this.modal.style.paddingLeft = this.scrollbarWidth + 'px';
    } else if (this.isBodyOverflowing) {
      this.modal.style.paddingLeft = '-' + this.scrollbarWidth + 'px';
    }
    this.bodyOverflowing = rect.left + rect.right < window.innerWidth;
    this.setScrollbar();
  });

  // Adjust navbar-toggler margin
selectAll(Selector.STICKY_CONTENT).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) - scrollbarWidth + 'px';
});

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selectAll(Selector.NAVBAR_TOGGLER).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el).marginRight || 0;
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) + scrollbarWidth + 'px';
});

// Adjust body padding
var actualPadding = body.style.paddingRight;
var calculatedPadding = computedStyle(body).paddingRight || 0;
setAttr(body, 'data-padding-right', actualPadding);
body.style.paddingRight = parseFloat(calculatedPadding) + scrollbarWidth + 'px';

resetScrollbar: function resetScrollbar() {
  // Restore fixed content padding
  selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
    if (hasAttr(el, 'data-padding-right')) {
      el.style.paddingRight = getAttr(el, 'data-padding-right') || '';
      removeAttr(el, 'data-padding-right');
    }
  });
  // Restore sticky content and navbar-toggler margin
  selectAll(Selector.STICKY_CONTENT + ', ' + Selector.NAVBAR_TOGGLER).forEach(function (el) {
    if (hasAttr(el, 'data-margin-right')) {
      el.style.marginRight = getAttr(el, 'data-margin-right') || '';
      removeAttr(el, 'data-margin-right');
    }
  });
  // Restore body padding
  var body = document.body;
  if (hasAttr(body, 'data-padding-right')) {
    body.style.paddingRight = getAttr(body, 'data-padding-right') || '';
    removeAttr(body, 'data-padding-right');
  }
}

var render = function () {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;

  return _c('div', {staticClass: 'embed-form'}, [
    (_vm.noTitle) ? _c('h4', {staticClass: 'embed-form__heading'}, _vm._v(_vm._s(_vm.$t('embed-form.heading')))) : _vm._e(),
    _c('div', {staticClass: 'row'}, [
      _c('div', {staticClass: 'col'}, [
        _c('p', _vm._v(_vm._s(_vm.$t('embed-form.introduction'))))
      ]),
      _c('label', {staticClass: 'custom-control custom-checkbox btn btn-sm float-left'}, [
        _c('input', {directives: [{name: 'model', rawName: 'v-model', value: _vm.responsiveCheck}, expression: '{responsiveCheck}'], staticClass: 'custom-control-input', attrs: {'type': 'checkbox'}, domProps: {checked: Array.isArray(_vm.responsiveCheck) ? _vm._i(_vm.responsiveCheck, null) > -1 : _vm.responsiveCheck}, on: {'change': function (event) {
          var $s = _vm.$refs.embedForm.$el, $sSel = _vm.$refs.embedForm.$el.checked();
          var $v = null, $sSel = _vm.$refs.embedForm.$el.checked();
          if ($sSel) {
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
          } else {
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
            _vm.$refs.embedForm.$el.checked();
          }
        }}},
        _c('span', {staticClass: 'custom-control-label font-weight-bold'}, _vm._v(_vm._s(_vm.$t('embed-form.responsive-optin'))) + ' ')
      ]),
      _c('button', {staticClass: 'btn btn-link btn-sm text-uppercase font-weight-bold', on: {'click': _vm.copyEmbedCode}}, [
        _c('fa', {attrs: {'icon': 'clipboard'}}), _vm._v(_vm._s(_vm.$t('embed-form.copy'))) + _vm._e()
      ])
    ]),
    (_vm.noPreview) ? _c('div', {staticClass: 'embed-form__preview'}, _vm._v(_vm._s(_vm.embedCode(false)))) : _vm._e()
  ])
};

function _typeof2(obj) { if (typeof Symbol === 'function' && typeof Symbol.iterator === 'symbol') { _typeof2 = function _typeof2(obj) { return typeof obj; }; } return _typeof2(obj); }

export { render, staticRenderFns };
```javascript
import Clipboard from 'clipboard'

export function copyText (text, container) {
  return new Promise(function (resolve, reject) {
    var fakeElement = document.createElement('button')

    var clipboard = new Clipboard(fakeElement, {
      text: () => (text),
      action: () => ('copy'),
      container: typeof container === 'object' ? container : document.body
    })

    clipboard.on('success', error => {
      clipboard.destroy()
      resolve(error)
    })

    clipboard.on('error', error => {
      clipboard.destroy()
      reject(error)
    })

    fakeElement.click()
  })
}

<template>
  <div class="embed-form">
    <div class="container-fluid">
      <h4 class="embed-form__heading" v-if="!noTitle">
        {{ $t('embed-form.heading') }}
      </h4>
      <div class="row">
        <div class="col">
          <p>
            {{ $t('embed-form.introduction') }}
          </p>
          <textarea class="form-control embed-form__code mb-2" readonly @click="selectCode":value="embedCode()"></textarea>

          <label class="custom-control custom-checkbox btn btn-sm float-left">
            <input type="checkbox" class="custom-control-input" v-model="responsiveCheck">
            <span class="custom-control-label font-weight-bold">
              {{ $t('embed-form.responsive-optin') }}
            </span>
          </label>

          <div class="text-right">
            <button class="btn btn-link btn-sm text-uppercase font-weight-bold" @click="copyEmbedCode">
              <fa icon="clipboard" />
              {{ $t('embed-form.copy') }}
            </button>
          </div>
        </div>
        <div class="col-7 d-none d-lg-block embed-form__preview" v-if="!noPreview">
          <span v-html="embedCode(false)"></span>
        </div>
      </div>
    </div>
  </div>
</template>
```

```javascript
/**
 * Embed Form
 */
export default {
  i18n,
  name: 'EmbedForm',
  data () {
    return {
      responsiveCheck: false
    }
  },
  beforeMount() {
    library.add(faClipboard)
  },
  components: {
    /** Prevent a bug with vue-docgen-api *
     * @see https://github.com/vue-styleguidist/vue-docgen-api/issues/23
     */
    Fa: require('./Fa').default
  },
  props: {
    /**
     * Hide the form title
     */
    noTitle: {
      type: Boolean
    },
    /**
     * Hide the preview panel
     */
    noPreview: {
      type: Boolean
    },
    /**
     * Default width of the iframe code
     */
    width: {
      type: [Number, String],
      default: '100%'
    },
    /**
     * Default height of the iframe code
     */
    height: {
      type: Number,
      default: () => (window.innerHeight)
    },
    /**
     * Default minimal width of the iframe code (if extract from window's size)
     */
    minWidth: {
      type: Number,
      default: 0
    },
    /**
     * Default minimal height of the iframe code (if extract from window's size)
     */
    minHeight: {
      type: Number,
      default: 0
    },
    /**
     * URL of the iframe code
     */
    url: {
      type: String
    },
    methods: {
      iframeCodeFor (url, width, height) {
        return `<iframe width="${width}" height="${height}" src="${url}" frameborder="0" allowfullscreen></iframe>`
      },
      pymCodeFor (url) {
        return `export default 
    } else {
      return obj &
```
this iframeCodeFor(this.currentUrl, width, height); 

computed: {
    currentUrl () { 
      return this.url || window.location.href } 
  },
}

},
    computed: {
      currentUrl () {
        return this.url || window.location.href
      }
    },
    methods: {
      iframeCodeFor(this.currentUrl, width, height)
    },
    computed: {
      currentUrl () {
        return this.url || window.location.href
      }
    }
  }
</script>

"import mod from "-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!./node_modules/babel-loader/lib/index.js!./node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./EmbedForm.vue?vue&type=script&lang=js&"; export default mod;

export * from "-!../../node_modules/cache-loader/dist/cjs.js??ref--12-0!../../node_modules/thread-loader/dist/cjs.js!../../node_modules/babel-loader/lib/index.js!../../node_modules/cache-loader/dist/cjs.js??ref--0-0!../../node_modules/vue-loader/lib/index.js??vue-loader-options!./EmbedForm.vue?vue&type=script&lang=js&"
import { render, staticRenderFns } from
./EmbedForm.vue?vue&type=template&id=502aea85&scoped=true&

import script from
./EmbedForm.vue?vue&type=script&lang=js&
export * from
./EmbedForm.vue?vue&type=script&lang=js&
import style0 from
./EmbedForm.vue?vue&type=style&index=0&id=502aea85&lang=scss&scoped=true&

var component = normalizer(
  script,
  render,
  staticRenderFns,
  false,
  null,
  '502aea85',
  null
)

component.options.__file = "EmbedForm.vue"

export default component.exports

<template>
  <div class="sharing-options" :style="style">
    <social-sharing v-bind="valuesFor('twitter')" inline-template>
      <network network="twitter" class="sharing-options__link">
        <fa :icon="['fab', 'twitter']" />
        <span class="sr-only">Share on Twitter</span>
      </network>
    </social-sharing>
    <social-sharing v-bind="valuesFor('facebook')" inline-template>
      <network network="facebook" class="sharing-options__link">
        <fa :icon="['fab', 'facebook']" />
        <span class="sr-only">Share on Facebook</span>
      </network>
    </social-sharing>
    <social-sharing v-bind="valuesFor('linkedin')" inline-template>
      <network network="linkedin" class="sharing-options__link">
        <fa :icon="['fab', 'linkedin']" />
        <span class="sr-only">Share on Linkedin</span>
      </network>
    </social-sharing>
    <social-sharing v-bind="valuesFor('email')" inline-template>
      <network network="email" class="sharing-options__link">
        <fa icon="envelope" />
        <span class="sr-only">Share by email</span>
      </network>
    </social-sharing>
    <div class="sharing-options__link" v-show="!noEmbed">
      <a @click="showEmbedForm">
        <fa icon="code" />
        <span class="sr-only">Embed</span>
      </a>
    </div>
    <b-modal hide-footer ref="embedForm" title="Embed on your website" class="text-dark">
      <embed-form no-title no-preview :min-height="iframeMinHeight" :min-width="iframeMinWidth"></embed-form>
    </b-modal>
  </div>
</template>

<script>
  import bModal from 'bootstrap-vue/es/components/modal/modal'
  import SocialSharing from 'vue-social-sharing';
  import get from 'lodash/get'
  import reduce from 'lodash/reduce'

  import i18n from '@/i18n'
  import { faCode } from '@fortawesome/free-solid-svg-icons/faCode'
  import { faEnvelope } from '@fortawesome/free-solid-svg-icons/faEnvelope'
  import { faTwitter } from '@fortawesome/free-brands-svg-icons/faTwitter'
  import { faFacebook } from '@fortawesome/free-brands-svg-icons/faFacebook'
  import { faLinkedin } from '@fortawesome/free-brands-svg-icons/faLinkedin'

  import EmbedForm from './EmbedForm.vue'
  import config from '../config'
  import IframeResizer from '../utils/iframe-resizer'

  import { library } from './Fa'

  /**
   * SharingOptions
   */
  export default {
    i18n,
    name: 'SharingOptions',
    components: {
      bModal,
      EmbedForm,
      SocialSharing,
      **/ Fa: require('./Fa').default */
    },
    beforeMount () {
      library.add(faCode, faEnvelope, faTwitter, faFacebook, faLinkedin)
      // Inject Fa components in child component
      SocialSharing.components.Fa = require('./Fa').default
    },
    props: {
      url: {
        type: String,
        default: () => config.get('sharing-options.url', null)
      },
      direction: { 
        type: String,
        default: () => config.get('sharing-options.direction', null)
      },
      noEmbed: { 
        type: Boolean,
        default: false
      },
      noPreview: { 
        type: Boolean,
        default: false
      },
      noTitle: { 
        type: Boolean,
        default: false
      },
      // * Sharing contents wich can be generic
### Sharing Options

- **title**: the defaultValueFor('sharing-options.title'),
- **description**: this.defaultValueFor('sharing-options.description', meta => get(meta, 'description', ''), '')
- **facebook_title**: this.defaultValueFor('sharing-options.facebook_title', meta => get(meta, 'og:title', ''), '')
- **facebook_description**: this.defaultValueFor('sharing-options.facebook_description', meta => get(meta, 'og:description', ''), '')
- **facebook_media**: this.defaultValueFor('sharing-options.facebook_media', meta => get(meta, 'og:image', ''), '')
- **twitter_media**: this.defaultValueFor('sharing-options.twitter_media', meta => get(meta, 'twitter:image', ''), '')
- **twitter_twitter-user**: this.defaultValueFor('sharing-options.twitter-twitter-user', meta => get(meta, 'twitter:site', ''), '')

#### Methods
- `showEmbedForm()`
- `valuesFor(network)`
- `defaultValueFor(key, metaSelector)`

#### Computed Properties
- `metaValues`
- `style`
<template>
  <div class="follow-us">
    <button class="btn btn-link text-light follow-us__close" @click="closeSignupPopover">
      <fa icon="times" /></button>
    <sign-up-form class="p-3"></sign-up-form>
    <div class="px-3 pb-1 text-uppercase text-muted font-weight-bold">
      {{ $t('follow-us-popover.heading') }}
    </div>
    <div class="p-3 bg-light container-fluid text-center">
      <div class="row">
        <div class="col">
          <a href="https://twitter.com/icijorg" target="_blank" class="d-inline-block text-primary border border-primary rounded-circle bg-white follow-us__social-btn" title="Twitter">
            <fa :icon="['fab', 'twitter']" size="lg" /></a>
        </div>
        <div class="col">
          <a href="https://www.facebook.com/ICIJ.org" target="_blank" class="d-inline-block text-primary border border-primary rounded-circle bg-white follow-us__social-btn" title="Facebook">
            <fa :icon="['fab', 'facebook']" size="lg" /></a>
        </div>
        <div class="col">
          <a href="https://www.linkedin.com/company/1732242/" target="_blank" class="d-inline-block text-primary border border-primary rounded-circle bg-white follow-us__social-btn" title="Linkedin">
            <fa :icon="['fab', 'linkedin']" size="lg" /></a>
        </div>
  </div>
</template>
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```javascript
// In this handler, we are forced to handle events from the body
// because of the way the click event is handled by the browser.
// Note: this function may be called several times in a short period.
handleEvents: function handleEvents(evt) {
  // If we see a dismiss event, stop.
  if (this.dismissed) {
    return;
  }

  // Check if the event is a 'click'.
  if (this.isClick || (this.isClick && !isTouch)) {
    return;
  }

  var target = eventTarget(evt, this.$refs.toggle);
  if (target) {
    // May need to filter the type of event handler.
    var type = bvEvt.type;
    if (type === 'click') {
      this.$emit('toggle', evt);
    } else {
      // Ensure other menu is closed
      this.$emit('close', evt);
    }
  }

  // If the event is not a click, and we are not in a dropdown,
  // we don't want to stop propagation.
  if (this.isClick && !isTouch && !this.isNav) {
    // Stop event from propagating
    evt.preventDefault();
    evt.stopPropagation();
  }
}

// Event emitter
emitEvent: function emitEvent(bvEvt) {
  var type = bvEvt.type;
  var isClick = bvEvt.type === 'click';
  var isTouch = 'ontouchstart' in document.documentElement;

  // If this is a touch-enabled device we add extra event handler.
  // Make sure we have a reference to an element, not a component!
  var element = this.$el || eventTarget(bvEvt, this.$refs.toggle);
  // Make sure we have a reference to an element, not a component!
  var element = this.$el || eventTarget(bvEvt, this.$refs.toggle);

  // Ensure other menus are closed
  this.$emit('close', bvEvt);
}

// Event handler
on: function on(type, fn) {
  this.$refs.toggle[type] = fn;
}

// Event handler
off: function off(type) {
  this.$refs.toggle[type] = this._noop;
}

// Event handler
emit: function emit(type, evt) {
  if (this.disabled) {
    return;
  }

  // Emit event
  var name = 'bv::dropdown::' + type;
  this.$emit(name, evt);
  this.$emit('bv::dropdown::' + type, evt);
}

// Event handler
emitOn: function emitOn(bvEvt) {
  var type = bvEvt.type;
  var isClick = bvEvt.type === 'click';
  var isTouch = 'ontouchstart' in document.documentElement;

  // If this is a touch-enabled device we add extra event handler.
  // Make sure we have a reference to an element, not a component!
  var element = this.$el || eventTarget(bvEvt, this.$refs.toggle);
  // Make sure we have a reference to an element, not a component!
  var element = this.$el || eventTarget(bvEvt, this.$refs.toggle);

  // Ensure other menus are closed
  this.$emit('close', bvEvt);
}
```
Symbol === "\"function\"" & obj.constructor === Symbol & obj instanceof Symbol.prototype ? "\"symbol\"" : typeof obj;

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); return Constructor; }; }();

var _classCallCheck = function (instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot call a class as a function"); } }

import Popper from 'popper.js';
import BvEvent from './bv-event.class';
import { assign } from './object';
import { from as arrayFrom } from './array';
import { closest, select, isVisible, isDisabled, getCS, addClass, removeClass, hasClass, setAttr, removeAttr, getAttr, eventOn, eventOff } from './dom';

var NAME = 'tooltip';
var CLASS_PREFIX = 'bs-tooltip';
var BSCLS_PREFIX_REGEX = new RegExp('\\b' + CLASS_PREFIX + '\\S+', 'g');

var TRANSITION_DURATION = 150;

// Modal $root hidden event
var MODAL_CLOSE_EVENT = 'bv::modal::hidden';
// Modal container for appending tip/popover
var MODAL_CLASS = '.modal-content';

var AttachmentMap = {
  AUTO: 'auto',
  TOP: 'top',
  RIGHT: 'right',
  BOTTOM: 'bottom',
  LEFT: 'left',
  TOPLEFT: 'top',
  TOPRIGHT: 'top',
  RIGHTTOP: 'right',
  RIGHTBOTTOM: 'right',
  BOTTOMLEFT: 'bottom',
  BOTTOMRIGHT: 'bottom',
  LEFTTOP: 'left',
  LEFTBOTTOM: 'left'
};

var OffsetMap = {
  AUTO: 0,
  TOPLEFT: -1,
  TOP: 0,
  TOPRIGHT: +1,
  RIGHTTOP: -1,
  RIGHT: 0,
  RIGHTBOTTOM: +1,
  BOTTOMLEFT: -1,
  BOTTOM: 0,
  BOTTOMRIGHT: +1
};

var HoverState = {
  SHOW: 'show',
  OUT: 'out'
};

var ClassName = {
  FADE: 'fade',
  SHOW: 'show'
};

var Selector = {
  TOOLTIP: '.tooltip',
  TOOLTIP_INNER: '.tooltip-inner',
  ARROW: '.arrow'
};

var Defaults = {
  animation: true,
  template: '<div class="tooltip" role="tooltip">' + '<div class="arrow"></div>' + '<div class="tooltip-inner"></div>' + '</div>',
  trigger: 'hover focus',
  title: '',
  delay: 0,
  html: false,
  placement: 'top',
  offset: 0,
  arrowPadding: 6,
  container: false,
  fallbackPlacement: 'flip',
  fallbackTrigger: 'static',
 瞟动: 'show',
  title: 'show',
  tooltip: 'tooltip',
  tooltipInner: 'tooltip-inner',
  arrow: 'arrow',
  // ESLINT: Not used
  // // MANU
};

var TransitionEndEvents = {
  WebkitTransition: ['webkitTransitionEnd'],
  MozTransition: ['transitionend'],
  transition: ['transitionend']
};

var NEXTID = 1;

/*
 * ToolTip Class definition
 */

var ToolTip = function () {
  // Main constructor
  function ToolTip(element, config, $root) {
    _classCallCheck(this, ToolTip);

    // New tooltip object
    this.$isEnabled = true;
    this.$fadeTimeout = null;
    this.$hoverTimeout = null;
    this.$visibleInterval = null;
    this.$hoverState = '';
    this.$activeTrigger = {};
    this.$popper = null;
    this.$element = element;
    this.$tip = null;
    this.$id = generateId(this.constructor.NAME);
    this.$root = $root || null;
    this.$routeWatcher = null;

    // Use a bound version of the following handlers for root/modal listeners to maintain the 'this' context
    this.$forceHide = this.forceHide.bind(this);
    this.$doHide = this.doHide.bind(this);
    this.$doShow = this.doShow.bind(this);
    this.$doDisable = this.doDisable.bind(this);
    this.$doEnable = this.doEnable.bind(this);

    // Set the configuration
    this.updateConfig(config);

    // Create the tip
    this.$tip = $(this.$element);
    this.$tip.data('bs-tooltip', this);
    this.$tip.on('hidden.bs.tooltip', this.$doHide);
    this.$tip.on('shown.bs.tooltip', this.$doShow);
    this.$tip.on('hidemodal.tooltip.in', this.$forceHide);
  }

  // NOTE: Overridden by PopOver class

  _createClass(ToolTip, [
    { key: 'updateConfig',
      value: function updateConfig(config)
      { if (config.delay && typeof config.delay === 'number') { this.$tip.attr('data-delay', config.delay); } if (config.html && typeof config.html === 'boolean') { this.$tip.html(config.html); } if (config.title && typeof config.title === 'string') { this.$tip.data('title', config.title); } } return__; }
  ]);
'setWhileOpenListeners',
    value: function setWhileOpenListeners(on) {
      // Modal close events
      this.$config = null;
      this.$doDisable = null;
      this.$doEnable = null;
      this.$element = null;
      this.$root = null;
      this.$id = null;
      this.$isEnabled = null;
      this.$activeTrigger = null;
      this.$forceHide = null;
      this.$hoverState = null;
      this.$popper = null;
      this.$visibleInterval = null;
      this.$hoverTimeout = null;
      this.$fadeTimeout = null;
      this.$doShow = null;
      this.$doHide = null;
      this.$hoverInterval = null;
      this.$hoverTimeOut = null;
      this.$showEvt = null;
      this.$disableEvt = null;
      this.$enableEvt = null;
      this.$config = null;
      this.$hoverInterval = null;
      this.$hoverTimeOut = null;
      this.$showEvt = null;
      this.$disableEvt = null;
      this.$enableEvt = null;
      this.$id = null;
      this.$isEnabled = null;
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      this.$isEnabled = null;
      this.$activeTrigger = null;
      this.$forceHide = null;
      this.$hoverState = null;
      this.$popper = null;
// disabled, then tip not close until no longer disabled or forcefully closed.
return; } 
if (!this.$isEnabled) { 
return; } 
var type = e.type;
var target = e.target;
var relatedTarget = e.relatedTarget;
var $element = this.$element;
var $tip = this.$tip;
if (type === 'click') { 
this.toggle(e); 
} else if (type === 'focusin' || type === 'mouseenter') { 
this.enter(e); 
} else if (type === 'focusout') { 
// target is the element which is loosing focus
// And relatedTarget is the element gaining focus
if ($tip && $element && $element.contains(target) && $tip.contains(relatedTarget)) { 
// If focus moves from Tooltip topopover, don't trigger a leave
return; } 
if ($tip && $element && $element.contains(target) && $element.contains(relatedTarget) &&
$tip.contains(relatedTarget)) { 
// If focus moves withinTooltip, don't trigger a leave
return; 
} 
if (on) { 
// Otherwise trigger a leave
$this.leave(e); 
} else if (type === 'mouseout') { 
$this.leave(e); 
} /* istanbul ignore next */
obj.constructor === Symbol & obj !== Symbol.prototype ? 'symbol' : typeof obj; 

```
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);
        }
    }

    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 TypeError('Super expression must either be null or a function, not ' + typeof superClass + ' ' + superClass);
        }
        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;
    }

    import ToolTip from './tooltip.class';
    import { assign } from './object';
    import { select, addClass, removeClass, getAttr } from './dom';

    var NAME = 'popover';
    var CLASS_PREFIX = 'bs-popover';
    var BSCLS_PREFIX_REGEX = new RegExp('\\b' + CLASS_PREFIX + '\\S+', 'g');

    var Defaults = assign({}, ToolTip.Default, {
        placement: 'right',
        trigger: 'click',
        content: '',
        template: '<div class="popover" role="tooltip">' + '<div class="arrow"></div>' + '<h3 class="popover-header"></h3>' + '<div class="popover-body"></div></div>',
    });

    var ClassName = {
        FADE: 'fade',
        SHOW: 'show'
    }

    var Selector = {
        TITLE: '.popover-header',
        CONTENT: '.popover-body',
    } // Method overrides

    class PopOver extends ToolTip {
        constructor() {
            _classCallCheck(this, PopOver);

            return _possibleConstructorReturn(this, (PopOver.__proto__ || Object.getPrototypeOf(PopOver)).apply(this, arguments));
        }

        _createClass(PopOver, [{
            key: 'isWithContent',

            // Method overrides

            value: function isWithContent() {
                var tip = this.$tip;
                if (!tip) {
                    return false;
                }
                var hasTitle = Boolean((select(Selector.TITLE, tip) || {}).innerHTML);
                var hasContent = Boolean((select(Selector.CONTENT, tip) || {}).innerHTML);
                return hasTitle || hasContent;
            }
        }, {
            key: 'addAttachmentClass',
            value: function addAttachmentClass(attachment) {
                addClass(this.getTipElement(), CLASS_PREFIX + '-' + attachment);
            }
        }, {
            key: 'setContent',
            value: function setContent() {
                this.setElementContent(select(Selector.TITLE, this.$tip), this.getTitle());
                this.setElementContent(select(Selector.CONTENT, this.$tip), this.getContent());
                removeClass(this.$tip, ClassName.FADE);
                removeClass(this.$tip, ClassName.SHOW);
            }
        }, {
            key: 'cleanTipClass',
            value: function cleanTipClass() {
                var tip = this.getTipElement();
                var tabClass = tip.className.match(BSCLS_PREFIX_REGEX);
                if (tabClass) {
                    tabClass.forEach(function (cls) {
                        removeClass(tip, cls);
                    });
                }
            }
        }, {
            key: 'getTitle',
            value: function getTitle() {
                var title = this.$config.title || '';
                if (typeof title === 'function') {
                    title = title(this.$element);
                }
                if (title.nodeType && !title.innerHTML.trim()) {
                    // We have a dom node, but without inner content, so just return an empty string
                    title = '';
                }
                if (typeof title === 'string') {
                    title = title.trim();
                }
                if (!title) {
                    // Try and grab element's title attribute
                    title = getAttr(this.$element, 'title') || getAttr(this.$element, 'data-original-title') || 'title';
                }
                return title;
            }
        }, {
            key: 'getContent',
            value: function getContent() {
                var content = this.$config.content || '';
                if (typeof content === 'function') {
                    content = content(this.$element);
                }
                if (content.nodeType && !content.innerHTML.trim()) {
                    // We have a dom node, but without inner content, so just return an empty string
                    content = '';
                }
                if (typeof content === 'string') {
                    content = content.trim();
                }
                return content;
            }
        }]);
    }

    var PopOver = new PopOver();
    PopOver.show();
```
return content;
    }
}, {
    key: 'Default',
    // Getter overrides
    get: function get() {
      return Defaults;
    }
  }, {
    key: 'NAME',
    get: function get() {
      return NAME;
    }
  });

    //攻坚
    
    // Polyfills for SSR
    
    if (typeof window !== 'undefined')
    
    // export var HTMLElement = isSSR ? Object : window.HTMLElement;

    var _typeof = typeof Symbol === 'function' && Symbol.prototype
    
    // typeof Symbol === 'function' && typeof Object
    
    // show
    
    // Create non-reactive property
    
    // Create ToolTip/PopOver on target
    
    // Instantiate ToolTip/PopOver on target
    
    // The createToolpop method must exist in main component
    
    // Listen to close signals from others
    
    // Listen to close signals from others' dom
    
    // Notify popper of possible size change
    
    // Set initially open state
    
    // Shut down our local event listeners
    
    // function (content, prop)
    
    // Title prop
    
    // Container currently needs to be an ID with '#' prepended, if null then body is used
    
    // boundariesElement passed to popper
    
    // Show/Hide
    
    // Add observer for changes to the element
    
    // Set observers for changes to the element
    
    // Update observers for changes to the element
    
    // Get observers for changes to the element
    
    // Remove observers for changes to the element
    
    // Set observers for changes to subelements
    
    // Update observers for changes to subelements
    
    // Get observers for changes to subelements
    
    // Remove observers for changes to subelements
    
    // Add observer for changes to DOM
    
    // Set observers for changes to DOM
    
    // Update observers for changes to DOM
    
    // Get observers for changes to DOM
    
    // Remove observers for changes to DOM
    
    // Add observer for changes to sub-DOM
    
    // Set observers for changes to sub-DOM
    
    // Update observers for changes to sub-DOM
    
    // Get observers for changes to sub-DOM
    
    // Remove observers for changes to sub-DOM
    
    // Initial observers
    
    // Add observer for changes to content
    
    // Remove observer for changes to content
    
    // Add observer for changes to content
    
    // Remove observer for changes to content
    
    // Listen to close signals from others
    
    // Listen to close signals from others' dom
    
    // Notify popper of possible size change
    
    // Set initially open state
    
    // Shut down our local event listeners
    
    // function (content, prop)
    
    // Title prop
    
    // Container currently needs to be an ID with '#' prepended, if null then body is used
    
    // boundariesElement passed to popper
    
    // Show/Hide
createToolpop: function createToolpop() {
  // getTarget is in toolpop mixin
  var target = this.getTarget();

  // If slot has content, it overrides 'title' prop
  // We use the DOM node as content to allow components!
  var cfgTitle = this.$slots.title
    ? this.$refs.title.innerHTML.trim() : null;
  var cfgContent = this.$slots.default
    ? this.$refs.content.innerHTML.trim() : null;

  if (cfgTitle) {
    this._obs_title = observeDom(this.$refs.title, this.updatePosition.bind(this), OBSERVER_CONFIG);
  }
  if (cfgContent) {
    this._obs_content = observeDom(this.$refs.content, this.updatePosition.bind(this), OBSERVER_CONFIG);
  }

  // Component
  if (this._obs_title) {
    this.$el.appendChild(this._obs_title);
  }
  if (this._obs_content) {
    this.$el.appendChild(this._obs_content);
  }

  // We bring it back to tip when shown again
  this.bringItBack();

  var cfg = assign({}, this.baseConfig);
  if (this.show) {
    this.onShow(evt);
  } else if (this.hide) {
    this.onHide(evt);
  }

  this._toolpop = new PopOver({
    content: this._obs_content,
    title: this._obs_title,
    offset: this.offset || 0,
    animation: !this.noFade,
    trigger: isArray(this.triggers) ? this.triggers.join(' ') : this.triggers,
    position: this.placement,
    content: this._obs_content.innerHTML.trim(),
    show: this.show,
    hidden: this.hide,
    enabled: this.enabled,
    disabled: this.disabled
  });

  // Set the toolpop's position
  this.updatePosition();

  // If slot has content, it overrides 'content' prop
  // We use the DOM node as content to allow components!
  this.cfg.content = this.$slots.default
    ? this.$refs.content.innerHTML.trim() : null;
  this.cfg.title = this.$slots.title
    ? this.$refs.title.innerHTML.trim() : null;

  // Callbacks so we can trigger events on component
  this.callbacks = {
    show: this.onShow,
    shown: this.onShown,
    hide: this.onHide,
    hidden: this.onHidden,
    enabled: this.onEnabled,
    disabled: this.onDisabled
  };

  this.setObservers(true);
  this.$emit('update:show', true);
  this.$emit('shown', evt);
}

getTarget: function getTarget() {
  var target = this.target;
  if (typeof target === 'function') {
    target = target();
  }

  if (typeof target === 'string') {
    // Assume ID of element
    target = getById(target);
  } else if ((typeof target === 'undefined') && (typeof this.$refs.target !== 'undefined')) {
    // Component
    target = this.$refs.target;
  } else if (target === 'undefined' && this.$slots.default) {
    // Default the content type to string
    target = 'string';
  } else if ((typeof target === 'undefined')) {
    // Component
    target = null;
  } else if (isElement(target)) {
    // Element reference
    return target.$el;
  } else if ((typeof target === 'undefined' && isElement(target))) {
    // Component
    return target.$el;
  } else if ((typeof target === 'undefined' && isArray(target))) {
    // Component
    return target;
  } else if (target === 'undefined') {
    // Component
    return target.$el;
  } else if ((typeof target === 'undefined')) {
    // Component
    return target.$el;
  } else if (target === 'undefined' && this.$slots.default) {
    // Default the content type to string
    target = 'string';
  } else if (target === 'undefined') {
    // Component
    target = null;
  } else if (target === 'undefined'.trim()) {
    // Import PopOver from 'vue-popover-classify':
    import PopOver from 'vue-popover-classify';
    var popup = new PopOver({
      content: null,
      // Callbacks so we can trigger events on component
      callbacks: {
        show: this.onShow,
        shown: this.onShown,
        hide: this.onHide,
        hidden: this.onHidden,
        enabled: this.onEnabled,
        disabled: this.onDisabled
      };
    });

    // Set the toolpop's position
    popup.updatePosition();

    // If slot has content, it overrides 'content' prop
    // We use the DOM node as content to allow components!
    popup.cfg.content = this.$slots.default
      ? this.$refs.content.innerHTML.trim() : null;
    popup.cfg.title = this.$slots.title
      ? this.$refs.title.innerHTML.trim() : null;

    // Callbacks so we can trigger events on component
    popup.callbacks = {
      show: this.onShow,
      shown: this.onShown,
      hide: this.onHide,
      hidden: this.onHidden,
      enabled: this.onEnabled,
      disabled: this.onDisabled
    };

    popup.setObservers(true);
    popup.$emit('update:show', true);
    popup.$emit('shown', evt);
  }
};
if (target) {
    this._toolpop = new PopOver(target, this.getConfig(), this.$root);
} else {
    this._toolpop = null;
    warn('b-popover: target element not found!');
} return this._toolpop;

</template>

<template>
  <div>
    <component :is="rootElement" id="imddb-header" data-turbolinks-permanent
      class="navbar navbar-expand-lg navbar-light imddb-header" :offset="100" :z-index="1020" :on-
      unpin="closeFollowUsPopover" :class="{ 'headroom--frozen': !collapseNavbar }" :style="{ position: position
    }">
      <!-- @slot Redefines brand -->
      <slot name="brand">
        <a :href="homeUrl" class="navbar-
          class="mr-
        </a>
      </slot>
      <button class="navbar-toggler" type="button" aria-
        class="navbar-
        /nav-link">
          {{ $t('imddb-header.navbar.leak') }}
        </a>
      </li>
      <li
        id="follow-icij">
          {{ $t('imddb-header.navbar.follow') }}
        </button>
        <b-popover container="imddb-header"
          target="follow-icij" placement="bottomleft" :show.sync="showSignupPopover">
          <follow-us-popover
            :show.sync="showSignupPopover"></follow-us-popover>
        </b-popover>
      </li>
    </ul>
  </div>
</template>

<script>
  import bDropdownItem from 'bootstrap-
  import bNavDropdown from 'bootstrap-vue/es/components/nav/nav-item-dropdown'
  import bPopover from
  import i18n from '@/i18n'
  import { headroom } from 'vue-
  import DonateForm from './DonateForm.vue'
  import FollowUsPopover from
  import bNavDropdown from 'bootstrap-vue/es/components/dropdown/dropdown-item' import bModal from 'bootstrap-vue/es/components/modal/modal' import bNavDropdown from 'bootstrap-vue/es/components/navbar/navbar' import bPopover from 'bootstrap-vue/es/components/popovers/popper/popper' in
  import config from '../config'

  /**
   * ImddbHeader
   */
  export default {
    i18n,
    name: 'ImddbHeader',
    components: {
      bDropdownItem,
      bModal,
      bNavDropdown,
      bPopover,
      headroom,
      DonateForm,
      FollowUsPopover,
      bDropdownItem,
      bModal,
      bNavDropdown,
      bPopover,
      headroom,
      DonateForm,
      FollowUsPopover
    },
    props: {
      /**
       * CSS
      class="mr-
        {{ project }}
      </a>
      </button>
    </ul>
    <b-modal hide-footer lazy ref="donateFormModal" size="lg">
      <span
        slot="modal-title" class="text-uppercase font-weight-bold text-primary">
        {{ $t('imddb-
        </li>
      </ul>
    </div>
  </div>
</template>

<style
"!../../../node_modules/vue-loader/lib/runtime/componentNormalizer.js"; var component = normalizer(\n  script, \n  render, \n  staticRenderFns, \n  false, null, \n  null, \n  null, \n  null, \n  component.options._file = "ResponsiveIframe.vue\n"; export default component.exports"; "<script>\nconst noop = () => (null);\n
var render, staticRenderFns
import script from "./SlideUpDown.vue?vue&type=script&lang=js&"; export default script; export * from "./SlideUpDown.vue?vue&type=script&lang=js&"

/* normalize component */
import normalizer from "!../../node_modules/vue-loader/lib/runtime/componentNormalizer.js"
var component = normalizer(
  script,
  render,
  staticRenderFns,
  false,
  null,
  null,
  null
)

component.options.__file = "SlideUpDown.vue"
export default component.exports,

import VueI18n from 'vue-i18n'
import { basename, extname } from 'path'

import i18n from './i18n'
export { default as config } from './config'
export { default as ContentPlaceholder } from './components/ContentPlaceholder.vue'
export { default as DonateForm } from './components/DonateForm.vue'
export { default as EmbeddableFooter } from './components/EmbeddableFooter.vue'
export { default as EmbedForm } from './EmbedForm.vue'
export { default as FollowUsPopover } from './FollowUsPopover.vue'
export { default as Fa } from './Fa.vue'
export { default as GenericFooter } from './GenericFooter.vue'
export { default as ImddbHeader } from './ImddbHeader.vue'
export { default as ResponsiveIframe } from './ResponsiveIframe.vue'
export { default as SharingOptions } from './SharingOptions.vue'
export { default as SignUpForm } from './SignUpForm.vue'
export { default as SlideUpDown } from './SlideUpDown.vue'

export {
  ContentPlaceholder,
  DonateForm,
  EmbeddableFooter,
  EmbedForm,
  FollowUsPopover,
  Fa,
  GenericFooter,
  ImddbHeader,
  ResponsiveIframe,
  SharingOptions,
  SignUpForm,
  SlideUpDown,
}
'./components/DonateForm.vue' exports { default as EmbeddableFooter } from
'./components/EmbeddableFooter.vue' exports { default as EmbeddableFooter } from
'./components/EmbedForm.vue' exports { default as FollowUsPopover } from
'./components/FollowUsPopover.vue' exports { default as Fa } from './components/EmbedForm.vue'
'export { default as EmbeddableFooter } from
'./components/EmbeddableFooter.vue
export { default as EmbedForm } from
'./components/EmbedForm.vue'
export { default as FollowUsPopover } from
'./components/FollowUsPopover.vue}
export { default as Fa } from './components/Fa'
export { default as GenericFooter } from './components/GenericFooter.vue'
export { default as ImddbHeader } from './components/ImddbHeader.vue'
export { default as ResponsiveIframe } from
'./components/ResponsiveIframe.vue'
export { default as SharingOptions } from
'./components/SharingOptions.vue'
export { default as SignUpForm } from
'./components/SignUpForm.vue'
export { default as SlideUpDown } from
'./components/SlideUpDown.vue

import * as components from './components'

class Murmur {
  static setLocaleMessage(lang, message) {
    return this.i18n.setLocaleMessage(lang, message)
  }
  static mergeLocaleMessage(lang, message) {
    return this.i18n.mergeLocaleMessage(lang, message)
  }
  static setLocale(lang) {
    return this.i18n.locale = lang
  }
  static getLocale() {
    return this.i18n.locale
  }
  static get i18n() {
    return this.i18n
  }
  static get config() {
    return require('./config.js').default
  }
  static get components() {
    return components
  }
  static install (Vue, options) {
    Object.keys(components).forEach(key => Vue.component(key, components[key]))
  }
}

export default Murmur

import './setPublicPath'
import mod from '~entry'
export default mod
export * from '~entry'

var assocIndexOf = require('./_assocIndexOf');

/**
 * Checks if a list cache value for `key` exists.
 *
 * @private
 * @name has
 * @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;

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;

---

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-
tgz/package/dist/lib/@icij/murmur.umd.js.map
No license file was found, but licenses were detected in source scan.

/*!
 * jQuery JavaScript Library v3.3.1
 * https://jquery.com/
 *
 * Includes Sizzle.js
 * https://sizzlejs.com/
 *
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 * Date: 2018-01-20T17:24Z

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/*!
* vue-headroom v0.9.0
* (c) 2016-present dalphyx <wjcbmk@gmail.com>
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*/

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*/

/*!
* @fileOverview Kickass library to create and place poppers near their reference elements.
* @version 1.14.5
* @license
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-tgz/package/dist/lib/@icij/murmur.umd.min.js

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* https://jquery.com/
* 
* Includes Sizzle.js
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* 
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*
* Date: 2018-01-20T17:24Z
*/

// for more details.
/**
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* (c) 2016-present dalphyx <wjcbmk@gmail.com>
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// without limitation the rights to use, copy, modify, merge, publish,
// distribute, sublicense, and/or sell copies of the Software, and to permit
// The above copyright notice and this permission notice shall be included
// in all copies or substantial portions of the Software.
/**
* Creates an array of the own enumerable property names of `object`.
*
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
*
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
* _.keys('hi');
* // => ['0', '1']
*/
/**!
* @fileOverview Kickass library to create and place poppers near their reference elements.
* @version 1.14.5
* @license
* Copyright (c) 2016 Federico Zivolo and contributors
*
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-
tgz/package/dist/lib/@icij/murmur.umd.js
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-
tgz/package/dist/lib/@icij/murmur.common.js

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

["version":3,"sources":["webpack://@icij/murmur//webpack/bootstrap","webpack://@icij/murmur/_node_modules/lodash/_getRawTag.js","webpack://@icij/murmur/_node_modules/core-js/modules/_iterator-define.js","webpack://@icij/murmur/_node_modules/lodash/_baseKeys.js","webpack://@icij/murmur/_node_modules/lodash/_isFlattenable.js","webpack://@icij/murmur/_node_modules/lodash/_stubFalse.js","webpack://@icij/murmur/_node_modules/lodash/_isStrictComparable.js","webpack://@icij/murmur/_lib/components/SharingOptions.vue?8ac0","webpack://@icij/murmur/_node_modules/core-js/modules/es7.promise.finally.js","webpack://@icij/murmur/_node_modules/lodash/_getNative.js","webpack://@icij/murmur/_node_modules/core-js/modules/
Behaves like an Array’s method, not like a jQuery method.\n
```
jQuery.extend = jQuery.fn.extend = function() {
  var options, name, src, copy, copyIsArray, clone, \n      target = arguments[0], i, \n      length = arguments.length, \n      deep = false;  // Handle a deep copy situation

  // Only deal with non-null/undefined values
  var options = arguments[i++] || null;

  // Extend the base object
  var targetName = options.name || target;\n  var toCopy = options.copy || target;\n
  // Prevent never-ending loop
  var deepCopy = target && (targetIsPlainObject(target) 
    ? jQuery.isPlainObject(options.copy) 
    : options.nodeType === 3 || forge.isXMLDoc(target) || target.nodeType === 1)
    ? target : target || {};\n
  // Recurse if we’re merging plain objects or arrays
  for (i in options) {
    src = options[i];
    copy = target[i] || target.isXMLDoc ? 
      (typeof src === "object" && src.nodeType === 1) ? src : 
      (src || options[i] = {});\n
    // Avoid merging non-objects
    // Extend the base object
    var base = copy && (typeof copy === "object" || copy.nodeType === 1) ? 
      copy : options[i];\n
    // Recurse if we’re merging plain objects or arrays
    target[i] = deep && toCopy && (jQuery.isPlainObject(toCopy) ? 
      jQuery.extend(base, toCopy[i], src) : 
      toCopy[i] && (typeof toCopy[i] === "object") ? 
      toCopy[i] : src);\n  }

  // Return the modified object
  return target;
};\n```

The above code is a deep object merging function, which iterates over the given arguments and merges them into a new object, handling both simple objects and arrays. It supports deep copying, meaning that objects and arrays are recursively cloned to maintain the original structure.
positives:

```javascript
function createDisabledPseudo( disabled ) {
  return (name === "input" || name === "button") && elem.type === "\n```
```javascript
function createInputPseudo( type ) {
  return function( elem ) {
    var name = elem.nodeName.toLowerCase();
    return (name === "input" && elem.type === type);
  }
}
```
```javascript
/**
 * Returns a function to use in pseudos for buttons
 * @param {String} type
 */
function createButtonPseudo( type ) {
  return function( elem ) {
    var name = elem.nodeName.toLowerCase();
    return
```
```javascript
/**
 * Returns a function to use in pseudos for input types
 * @param {String} type
 */
function createInputPseudo( type ) {
  return function( elem ) {
    var name = elem.nodeName.toLowerCase();
    return
```
```javascript
/**
 * Returns a function to use in pseudos for :enabled/:disabled
 * @param {Boolean} disabled
 */
```
```javascript
/**
 * Returns a function to use in pseudos for :disabled; false for
```
elements can match :enabled or :disabled

```
// Check for inherited disabledness on relevant non-disabled elements:
if ( elem.parentNode & elem.disabled === false ) {
  return elem.parentNode.disabled === disabled;
} else {
  return elem.disabled === disabled;
}
```

- Form elements
  - :enabled or :disabled
  - `form` in `elem`
  - `label` in `elem`

```
// Try to winnow out elements that can't be disabled before trusting the disabled property:
// Some victims get caught in our net (label, legend, menu, track), but it shouldn't even exist on them, let alone have a boolean value.
if ( !elem ) else if ( "label" in elem ) { return elem.disabled === disabled; }
```

### Positional Pseudos

```
function createPositionalPseudo( fn ) {
  return markFunction(function( argument ) {
    argument = +argument;
    return markFunction(function( seed, matches ) {
      var j,
          matchIndexes = fn( [], seed.length, argument ),
          i = matchIndexes.length;

      // Match elements found at the specified indexes
      while ( i-- ) {
        if ( seed[ (j = matchIndexes[ i ])] ) {
          seed[ j ] = !matches[ j ];
        }
      }
    });
  });
}
```

### Context Support

```
function testContext( context ) {
  return context && typeof context.getElementsByTagName !== "undefined" && context;
}
```

### Document Support

```
// Expose support vars for convenience
support = Sizzle.support = {};

/**
 * Detects XML nodes
 * @param {Element|Object} elem An element or a document
 * @returns {Boolean} True iff elem is a non-HTML XML node
 */
isXML = Sizzle.isXML = function( elem ) {
  // documentElement is verified for cases where it doesn't yet exist
  // (such as loading iframes in IE - #4833)
  var documentElement = elem && (elem.ownerDocument || elem).documentElement;
  return documentElement ? documentElement.nodeName !== "HTML" : false;
}
```

Accessing iframe documents after unload throws "permission denied" errors (jQuery #13936)
IE<9\n\tsupport.getElementsByClassName = rnative.test( document.getElementsByClassName );\n\n\t// Support:
IE<10\n\t// Check if getElementById returns elements by name\n\t// The broken getElementById methods don't pick
up programmatically-set names,\n\t// so use a roundabout getElementsByName test\n\tsupport.getById =
assert(function( el ) {\n\t\tdocElem.appendChild( el ).id = expando;\n\t\treturn !document.getElementsByName ||
!document.getElementsByName( expando ).length;\n\t});\n\n\t// ID filter and find\n\tif ( support.getById )
{\n\t\tExpr.filter[\"ID\"] = function( id ) {\n\t\t\tvar attrId = id.replace( runescape, funescape );\n\t\t\treturn function(
elem ) {\n\t\t\t\treturn elem.getAttribute(\"id\") === attrId;\n\t\t\t};\n\t\t};\n\t\tExpr.find[\"ID\"] = function( id,
context ) {\n\t\t\tif ( typeof context.getElementById !== \"undefined\" && documentIsHTML ) {\n\t\t\t\tvar elem =
context.getElementById( id );\n\t\t\t\treturn elem ? [ elem ] : [];\n\t\t\t}\n\t\t};\n\t} else {\n\t\tExpr.filter[\"ID\"] =
function( id ) {\n\t\t\tvar attrId = id.replace( runescape, funescape );\n\t\t\treturn function( elem ) {\n\t\t\t\tvar node =
typeof elem.getAttributeNode !== \"undefined\" &&\n\t\t\t\t\telem.getAttributeNode(\"id\");\n\t\t\t\treturn node &&
node.value === attrId;\n\t\t\t};\n\t\t};\n\n\t\t// Support: IE 6 - 7 only\n\t\t// getElementById is not reliable as a find
shortcut\n\t\tExpr.find[\"ID\"] = function( id, context ) {\n\t\t\tif ( typeof context.getElementById !== \"undefined\"
&& documentIsHTML ) {\n\t\t\t\tvar node, i, elems,\n\t\t\t\t\telem = context.getElementById( id );\n\n\t\t\t\tif ( elem
) {\n\n\t\t\t\t\t// Verify the id attribute\n\t\t\t\t\tnode = elem.getAttributeNode(\"id\");\n\t\t\t\t\tif ( node &&
node.value === id ) {\n\t\t\t\t\t\treturn [ elem ];\n\t\t\t\t\t}\n\n\t\t\t\t\t// Fall back on
getElementsByName\n\t\t\t\t\telems = context.getElementsByName( id );\n\t\t\t\t\ti = 0;\n\t\t\t\t\twhile ( (elem =
elems[i++]) ) {\n\t\t\t\t\t\tnode = elem.getAttributeNode(\"id\");\n\t\t\t\t\t\tif ( node && node.value === id )
{\n\t\t\t\t\t\t\treturn [ elem ];\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t}\n\n\t\t\t\treturn [];\n\t\t\t}\n\t\t};\n\t}\n\n\t//
Tag\n\tExpr.find[\"TAG\"] = support.getElementsByTagName ?\n\t\tfunction( tag, context ) {\n\t\t\tif ( typeof
context.getElementsByTagName !== \"undefined\" ) {\n\t\t\t\treturn context.getElementsByTagName( tag
);\n\n\t\t\t// DocumentFragment nodes don't have gEBTN\n\t\t\t} else if ( support.qsa ) {\n\t\t\t\treturn
context.querySelectorAll( tag );\n\t\t\t}\n\t\t} :\n\n\t\tfunction( tag, context ) {\n\t\t\tvar elem,\n\t\t\t\ttmp =
[],\n\t\t\t\ti = 0,\n\t\t\t\t// By happy coincidence, a (broken) gEBTN appears on DocumentFragment nodes
too\n\t\t\t\tresults = context.getElementsByTagName( tag );\n\n\t\t\t// Filter out possible comments\n\t\t\tif ( tag ===
\"*\" ) {\n\t\t\t\twhile ( (elem = results[i++]) ) {\n\t\t\t\t\tif ( elem.nodeType === 1 ) {\n\t\t\t\t\t\ttmp.push( elem
);\n\t\t\t\t\t}\n\t\t\t\t}\n\n\t\t\t\treturn tmp;\n\t\t\t}\n\t\t\treturn results;\n\t\t};\n\n\t// Class\n\tExpr.find[\"CLASS\"] =
support.getElementsByClassName && function( className, context ) {\n\t\tif ( typeof
context.getElementsByClassName !== \"undefined\" && documentIsHTML ) {\n\t\t\treturn
context.getElementsByClassName( className );\n\t\t}\n\t};\n\n\t/* QSA/matchesSelector\n\t--------------------------------------------------------------------- */\n\n\t// QSA and matchesSelector support\n\n\t// matchesSelector(:active)
reports false when true (IE9/Opera 11.5)\n\trbuggyMatches = [];\n\n\t// qSa(:focus) reports false when true (Chrome
21)\n\t// We allow this because of a bug in IE8/9 that throws an error\n\t// whenever `document.activeElement` is
accessed on an iframe\n\t// So, we allow :focus to pass through QSA all the time to avoid the IE error\n\t// See
https://bugs.jquery.com/ticket/13378\n\trbuggyQSA = [];\n\n\tif ( (support.qsa = rnative.test(
document.querySelectorAll )) ) {\n\t\t// Build QSA regex\n\t\t// Regex strategy adopted from Diego
Perini\n\t\tassert(function( el ) {\n\t\t\t// Select is set to empty string on purpose\n\t\t\t// This is to test IE's treatment
of not explicitly\n\t\t\t// setting a boolean content attribute,\n\t\t\t// since its presence should be enough\n\t\t\t//
https://bugs.jquery.com/ticket/12359\n\t\t\tdocElem.appendChild( el ).innerHTML = \"<a id='\" + expando +
\"'></a>\" +\n\t\t\t\t\"<select id='\" + expando + \"-\\r\\\\' msallowcapture=''>\" +\n\t\t\t\t\"<option
selected=''></option></select>\";\n\n\t\t\t// Support: IE8, Opera 11-12.16\n\t\t\t// Nothing should be selected when
empty strings follow ^= or $= or *=\n\t\t\t// The test attribute must be unknown in Opera but \"safe\" for
WinRT\n\t\t\t// https://msdn.microsoft.com/en-us/library/ie/hh465388.aspx#attribute_section\n\t\t\tif (
el.querySelectorAll(\"[msallowcapture^='']\").length ) {\n\t\t\t\trbuggyQSA.push( \"[*^$]=\" + whitespace +
\"*(?:''|\\\"\\\")\" );\n\t\t\t}\n\n\t\t\t// Support: IE8\n\t\t\t// Boolean attributes and \"value\" are not treated
correctly\n\t\t\tif ( !el.querySelectorAll(\"[selected]\").length ) {\n\t\t\t\trbuggyQSA.push( \"\\\\[\" + whitespace +
\"*(?:value|\" + booleans + \")\" );\n\t\t\t}\n\n\t\t\t// Support: Chrome<29, Android<4.4, Safari<7.0+, iOS<7.0+,
PhantomJS<1.9.8+\n\t\t\tif ( !el.querySelectorAll( \"[id~=\" + expando + \"-]\" ).length )

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documents or disconnected\n\n```javascript

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
typeof elem.textContent !== "string" ]
																																																																																																																																																																																																																																																																																																																																																																																																																																																									
testContent for elements\n\n```javascript

```javascript

Sizzle.selectors = {\n\n  expr: Can be adjusted by the user\n\n  cacheLength: 50\n\n  createPseudo: markFunction,\n  \n  matchExpr: matchExpr,\n  \n  attrHandle: function(match) {\n    \n    \n  }\n\n  ```
match[1].replace( runescape, funescape );

"previousSibling";

return true;

start = [ forward ? parent.firstChild :

type === "only" && !start && elem.nodeName.toLowerCase(),

useCache = !xml && !ofType,

diff = false;

return function( elem ) {

result += "";

return operator === "=" ? result === check :

result === "!=" ? result !== check :

operator === "|=" ? result === check || result.slice( 0, check.length + 1 ) === check :

operator === "~=" ? ( " " + result.replace( rwhitespace, " " ) + " ")

operator === "$=" ? check && result.slice( -check.length ) === check :

operator === "^=" ? check && result.indexOf( check ) === 0 :

operator === "*=" ? check && result.indexOf( check ) > -1 :

operator === "\$=" ? check && result.slice( -check.length ) === check :

operator === "|=" ? result === check :

operator === "~=" ? result === check :

operator === "\$=" ? result === check :

operator === "^=" ? result === check :

operator === "*=" ? result === check :

operator === "\$=" ? result === check :

operator === "|=" ? result === check :

operator === "~=" ? result === check :

operator === "\$=" ? result === check :

operator === "|=" ? result === check :

operator === "~=" ? result === check :

operator === "\$=" ? result === check :

operator === "|=" ? result === check :

operator === "~=" ? result === check :

operator === "\$=" ? result === check :

operator === "|=" ? result === check :

operator === "~=" ? result === check :

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operator === "|=" ? result === check :

operator === "~=" ? result === check :

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operator ==

false;
element (issue #299)

markFunction((selector) => {
  results.pop();
  return Sizzle(selector, elem).length > 0;
}).

markFunction((text) => {
  return text.replace(unescape, funescape);
}).

markFunction((elem) => {
  elem.textContent || elem.innerText || getText(elem).indexOf(text) > -1;
}).

Whether an element is represented by a :lang() selector
is based solely on the element's language value
being equal to the identifier C.

The matching of C against the element's language value is performed case-insensitively.

The identifier C does not have to be a valid language name.

http://www.w3.org/TR/2011/REC-css3-selectors-20110929/

Accessing this property makes selected-elements
options in Safari work properly.

expr.pseudos["empty"]

!Expr.pseudos["empty"]

Object/inputs/"header": function (elem) {
  return elem.nodeName.toLowerCase() === "header";
}

Object/inputs/"input": function (elem) {
  return elem.nodeName.toLowerCase() === "input";
}

Object/inputs/"button": function (elem) {
  return elem.nodeName.toLowerCase() === "button";
}

Object/inputs/"text": function (elem) {
  return elem.nodeName.toLowerCase() === "text";
}

New HTML5 attribute values (e.g., "search") appear with elem.type === "text"
Support: IE<9

"input" && !elem.disabled;

Boolean properties

expr.pseudos["enabled"]

createDisabledPseudo(false);

expr.pseudos["disabled"]

createDisabledPseudo(true);

get(checked);

false;||

expr.pseudos["checked"]

elem.nodeName.toLowerCase() === "input" &&

expr.pseudos["type": "text"];

expr.pseudos["search"];

elem.type === "text";

expressions may appear with elem.type === "text";

attr = elem.getAttribute("type");

null || attr.toLowerCase() === "text"

Position-in-collection

expr.pseudos["first"]

createPositionalPseudo(function() {
  return [0];
}).

expr.pseudos["last"]

createPositionalPseudo(function( matchIndexes, length ) {
  return [length - 1];
}).

expr.pseudos["eq"]

createPositionalPseudo(function( matchIndexes, length, argument ) {
  return [argument < 0 ? argument + length : argument + 1];
}).

expr.pseudos["even"]

createPositionalPseudo(function( matchIndexes, length ) {
  for (i = 0; i < length; i = i + 2) {
    push(i);
  }
  return matchIndexes;
}).

expr.pseudos["odd"]

createPositionalPseudo(function( matchIndexes, length ) {
  for (i = 1; i < length; i = i + 2) {
    push(i);
  }
  return matchIndexes;
}).

expr.pseudos["lt"]

createPositionalPseudo(function( matchIndexes, length, argument ) {
  for (i = argument < 0 ? argument + length : argument + 1; ; i = i - 1) {
    push(i);
  }
  return matchIndexes;
}).

expr.pseudos["gt"]

createPositionalPseudo(function( matchIndexes, length, argument ) {
  for (i = argument < 0 ? argument + length : argument; ; i = i + 1) {
    push(i);
  }
  return matchIndexes;
}).

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Use integer dirruns iff this is the outermost matcher. `dirrunsUniqe` = (dirruns += contextBackup == null ? 1 : Math.random() || 0.1), `unmatched = elements.length` (outermost) `{ document || context || outermost || elements || results || outermost ||`Add elements passing elementMatchers directly to results`/`/ Support: IE<9, Safari

`matchedCount += i;` `Add set filters to unmatched elements`/`NOTE: This can be skipped if there are no unmatched elements (i.e., `matchedCount` = `i`), unless we didn't visit _any_ elements in the above loop because we have `null` element matchers and no seed. Incrementing an initially-string "0" `i` allows `i` to remain a string only in that case, which will result in a "00"

`matcherFromGroupMatchers(elementMatchers, setMatchers)`

 Sylvanby Element = elementMatchers.length > 0, `superMatcher = function( seed, context, xml, results, outermost)`

`outermost)`

`results || outermost || elements || results || outermost ||`Add elements passing elementMatchers directly to results`/`/ Support: IE<9, Safari

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`results || outermost || elements || results || outermost ||`Add elements passing elementMatchers directly to results`/`/ Support: IE<9, Safari
guarantees us context)\n\tif ( match.length === 1 ) {\n\n\t\t// Reduce context if the leading compound selector is an
ID\n\t\ttokens = match[0] = match[0].slice( 0 );\n\t\tif ( tokens.length > 2 && (token = tokens[0]).type === \"ID\"
&&\n\t\t\t\tcontext.nodeType === 9 && documentIsHTML && Expr.relative[ tokens[1].type ] ) {\n\n\t\t\tcontext =
( Expr.find[\"ID\"]( token.matches[0].replace(runescape, funescape), context ) || [] )[0];\n\t\t\tif ( !context )
{\n\t\t\t\treturn results;\n\n\t\t\t// Precompiled matchers will still verify ancestry, so step up a level\n\t\t\t} else if (
compiled ) {\n\t\t\t\tcontext = context.parentNode;\n\t\t\t}\n\n\t\t\tselector = selector.slice( tokens.shift().value.length
);\n\t\t}\n\n\t\t// Fetch a seed set for right-to-left matching\n\t\ti = matchExpr[\"needsContext\"].test( selector ) ? 0 :
tokens.length;\n\t\twhile ( i-- ) {\n\t\t\ttoken = tokens[i];\n\n\t\t\t// Abort if we hit a combinator\n\t\t\tif (
Expr.relative[ (type = token.type) ] ) {\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tif ( (find = Expr.find[ type ]) ) {\n\t\t\t\t// Search,
expanding context for leading sibling combinators\n\t\t\t\tif ( (seed = find(\n\t\t\t\t\ttoken.matches[0].replace(
runescape, funescape ),\n\t\t\t\t\trsibling.test( tokens[0].type ) && testContext( context.parentNode ) ||
context\n\t\t\t\t)) ) {\n\n\t\t\t\t\t// If seed is empty or no tokens remain, we can return early\n\t\t\t\t\ttokens.splice( i, 1
);\n\t\t\t\t\tselector = seed.length && toSelector( tokens );\n\t\t\t\t\tif ( !selector ) {\n\t\t\t\t\t\tpush.apply( results, seed
);\n\t\t\t\t\t\treturn results;\n\t\t\t\t\t}\n\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t}\n\n\t// Compile and execute a
filtering function if one is not provided\n\t// Provide `match` to avoid retokenization if we modified the selector
above\n\t( compiled || compile( selector, match )
)(\n\t\tseed,\n\t\tcontext,\n\t\t!documentIsHTML,\n\t\tresults,\n\t\t!context || rsibling.test( selector ) && testContext(
context.parentNode ) || context\n\t);\n\treturn results;\n};\n\n// One-time assignments\n\n// Sort
stability\nsupport.sortStable = expando.split(\"\").sort( sortOrder ).join(\"\") === expando;\n\n// Support: Chrome
14-35+\n// Always assume duplicates if they aren't passed to the comparison function\nsupport.detectDuplicates =
!!hasDuplicate;\n\n// Initialize against the default document\nsetDocument();\n\n// Support: Webkit<537.32 - Safari
6.0.3/Chrome 25 (fixed in Chrome 27)\n// Detached nodes confoundingly follow *each
other*\nsupport.sortDetached = assert(function( el ) {\n\t// Should return 1, but returns 4 (following)\n\treturn
el.compareDocumentPosition( document.createElement(\"fieldset\") ) & 1;\n});\n\n// Support: IE<8\n// Prevent
attribute/property \"interpolation\"\n// https://msdn.microsoft.com/en-us/library/ms536429%28VS.85%29.aspx\nif (
!assert(function( el ) {\n\tel.innerHTML = \"<a href='#'></a>\";\n\treturn el.firstChild.getAttribute(\"href\") ===
\"#\" ;\n}) ) {\n\taddHandle( \"type|href|height|width\", function( elem, name, isXML ) {\n\t\tif ( !isXML )
{\n\t\t\treturn elem.getAttribute( name, name.toLowerCase() === \"type\" ? 1 : 2 );\n\t\t}\n\t});\n}\n\n// Support:
IE<9\n// Use defaultValue in place of getAttribute(\"value\")\nif ( !support.attributes || !assert(function( el )
{\n\tel.innerHTML = \"<input/>\";\n\tel.firstChild.setAttribute( \"value\", \"\" );\n\treturn el.firstChild.getAttribute(
\"value\" ) === \"\";\n}) ) {\n\taddHandle( \"value\", function( elem, name, isXML ) {\n\t\tif ( !isXML &&
elem.nodeName.toLowerCase() === \"input\" ) {\n\t\t\treturn elem.defaultValue;\n\t\t}\n\t});\n}\n\n// Support:
IE<9\n// Use getAttributeNode to fetch booleans when getAttribute lies\nif ( !assert(function( el ) {\n\treturn
el.getAttribute(\"disabled\") == null;\n}) ) {\n\taddHandle( booleans, function( elem, name, isXML ) {\n\t\tvar
val;\n\t\tif ( !isXML ) {\n\t\t\treturn elem[ name ] === true ? name.toLowerCase() :\n\t\t\t\t\t(val =
elem.getAttributeNode( name )) && val.specified ?\n\t\t\t\t\tval.value :\n\t\t\t\tnull;\n\t\t}\n\t});\n}\n\nreturn
Sizzle;\n\n})( window );\n\n\n\njQuery.find = Sizzle;\njQuery.expr = Sizzle.selectors;\n\n//
Deprecated\njQuery.expr[ \":\" ] = jQuery.expr.pseudos;\njQuery.uniqueSort = jQuery.unique =
Sizzle.uniqueSort;\njQuery.text = Sizzle.getText;\njQuery.isXMLDoc = Sizzle.isXML;\njQuery.contains =
Sizzle.contains;\njQuery.escapeSelector = Sizzle.escape;\n\n\n\n\nvar dir = function( elem, dir, until ) {\n\tvar
matched = [],\n\t\ttruncate = until !== undefined;\n\n\twhile ( ( elem = elem[ dir ] ) && elem.nodeType !== 9 )
{\n\t\tif ( elem.nodeType === 1 ) {\n\t\t\tif ( truncate && jQuery( elem ).is( until ) )
{\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tmatched.push( elem );\n\t\t}\n\t}\n\treturn matched;\n};\n\n\nvar siblings = function( n,
elem ) {\n\tvar matched = [];\n\n\tfor ( ; n; n = n.nextSibling ) {\n\t\tif ( n.nodeType === 1 && n !== elem )
{\n\t\t\tmatched.push( n );\n\t\t}\n\t}\n\n\treturn matched;\n};\n\n\nvar rneedsContext =
jQuery.expr.match.needsContext;\n\n\n\nfunction nodeName( elem, name ) {\n\n return elem.nodeName &&
elem.nodeName.toLowerCase() === name.toLowerCase();\n\n};\nvar rsingleTag = ( /^<([az][^\\/\\0>:\\x20\\t\\r\\n\\f]*)[\\x20\\t\\r\\n\\f]*\\/?>(?:<\\/\\1>|)$/i );\n\n\n\n// Implement the identical functionality for

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the init function the jQuery prototype for later instantiation\ninit.prototype = jQuery.fn;\n\n// Initialize central
reference\nrootjQuery = jQuery( document );\n\n\nvar rparentsprev = /^(?:parents|prev(?:Until|All))/,\n\n\t//
Methods guaranteed to produce a unique set when starting from a unique set\n\tguaranteedUnique = {\n\t\tchildren:
true,\n\t\tcontents: true,\n\t\tnext: true,\n\t\tprev: true\n\t};\n\njQuery.fn.extend( {\n\thas: function( target ) {\n\t\tvar
targets = jQuery( target, this ),\n\t\t\tl = targets.length;\n\n\t\treturn this.filter( function() {\n\t\t\tvar i = 0;\n\t\t\tfor ( ;
i < l; i++ ) {\n\t\t\t\tif ( jQuery.contains( this, targets[ i ] ) ) {\n\t\t\t\t\treturn true;\n\t\t\t\t}\n\t\t\t}\n\t\t}
);\n\t},\n\n\tclosest: function( selectors, context ) {\n\t\tvar cur,\n\t\t\ti = 0,\n\t\t\tl = this.length,\n\t\t\tmatched =
[],\n\t\t\ttargets = typeof selectors !== \"string\" && jQuery( selectors );\n\n\t\t// Positional selectors never match,
since there's no _selection_ context\n\t\tif ( !rneedsContext.test( selectors ) ) {\n\t\t\tfor ( ; i < l; i++ ) {\n\t\t\t\tfor (
cur = this[ i ]; cur && cur !== context; cur = cur.parentNode ) {\n\n\t\t\t\t\t// Always skip document
fragments\n\t\t\t\t\tif ( cur.nodeType < 11 && ( targets ?\n\t\t\t\t\t\ttargets.index( cur ) > -1 :\n\n\t\t\t\t\t\t// Don't pass
non-elements to Sizzle\n\t\t\t\t\t\tcur.nodeType === 1 &&\n\t\t\t\t\t\t\tjQuery.find.matchesSelector( cur, selectors ) )
) {\n\n\t\t\t\t\t\tmatched.push( cur );\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\n\t\treturn this.pushStack(
matched.length > 1 ? jQuery.uniqueSort( matched ) : matched );\n\t},\n\n\t// Determine the position of an element
within the set\n\tindex: function( elem ) {\n\n\t\t// No argument, return index in parent\n\t\tif ( !elem ) {\n\t\t\treturn
( this[ 0 ] && this[ 0 ].parentNode ) ? this.first().prevAll().length : -1;\n\t\t}\n\n\t\t// Index in selector\n\t\tif ( typeof
elem === \"string\" ) {\n\t\t\treturn indexOf.call( jQuery( elem ), this[ 0 ] );\n\t\t}\n\n\t\t// Locate the position of the
desired element\n\t\treturn indexOf.call( this,\n\n\t\t\t// If it receives a jQuery object, the first element is
used\n\t\t\telem.jquery ? elem[ 0 ] : elem\n\t\t);\n\t},\n\n\tadd: function( selector, context ) {\n\t\treturn
this.pushStack(\n\t\t\tjQuery.uniqueSort(\n\t\t\t\tjQuery.merge( this.get(), jQuery( selector, context )
)\n\t\t\t)\n\t\t);\n\t},\n\n\taddBack: function( selector ) {\n\t\treturn this.add( selector == null ?\n\t\t\tthis.prevObject :
this.prevObject.filter( selector )\n\t\t);\n\t}\n} );\n\nfunction sibling( cur, dir ) {\n\twhile ( ( cur = cur[ dir ] ) &&
cur.nodeType !== 1 ) {}\n\treturn cur;\n}\n\njQuery.each( {\n\tparent: function( elem ) {\n\t\tvar parent =
elem.parentNode;\n\t\treturn parent && parent.nodeType !== 11 ? parent : null;\n\t},\n\tparents: function( elem )
{\n\t\treturn dir( elem, \"parentNode\" );\n\t},\n\tparentsUntil: function( elem, i, until ) {\n\t\treturn dir( elem,
\"parentNode\", until );\n\t},\n\tnext: function( elem ) {\n\t\treturn sibling( elem, \"nextSibling\" );\n\t},\n\tprev:
function( elem ) {\n\t\treturn sibling( elem, \"previousSibling\" );\n\t},\n\tnextAll: function( elem ) {\n\t\treturn dir(
elem, \"nextSibling\" );\n\t},\n\tprevAll: function( elem ) {\n\t\treturn dir( elem, \"previousSibling\"
);\n\t},\n\tnextUntil: function( elem, i, until ) {\n\t\treturn dir( elem, \"nextSibling\", until );\n\t},\n\tprevUntil:
function( elem, i, until ) {\n\t\treturn dir( elem, \"previousSibling\", until );\n\t},\n\tsiblings: function( elem )
{\n\t\treturn siblings( ( elem.parentNode || {} ).firstChild, elem );\n\t},\n\tchildren: function( elem ) {\n\t\treturn
siblings( elem.firstChild );\n\t},\n\tcontents: function( elem ) {\n
if ( nodeName( elem, \"iframe\" ) ) {\n
return elem.contentDocument;\n
}\n\n
// Support: IE 9 - 11 only, iOS 7 only, Android Browser <=4.3
only\n
// Treat the template element as a regular one in browsers that\n
// don't support it.\n
if (
nodeName( elem, \"template\" ) ) {\n
elem = elem.content || elem;\n
}\n\n
return jQuery.merge( [],
elem.childNodes );\n\t}\n}, function( name, fn ) {\n\tjQuery.fn[ name ] = function( until, selector ) {\n\t\tvar
matched = jQuery.map( this, fn, until );\n\n\t\tif ( name.slice( -5 ) !== \"Until\" ) {\n\t\t\tselector =
until;\n\t\t}\n\n\t\tif ( selector && typeof selector === \"string\" ) {\n\t\t\tmatched = jQuery.filter( selector, matched
);\n\t\t}\n\n\t\tif ( this.length > 1 ) {\n\n\t\t\t// Remove duplicates\n\t\t\tif ( !guaranteedUnique[ name ] )
{\n\t\t\t\tjQuery.uniqueSort( matched );\n\t\t\t}\n\n\t\t\t// Reverse order for parents* and prev-derivatives\n\t\t\tif (
rparentsprev.test( name ) ) {\n\t\t\t\tmatched.reverse();\n\t\t\t}\n\t\t}\n\n\t\treturn this.pushStack( matched );\n\t};\n}
);\nvar rnothtmlwhite = ( /[^\\x20\\t\\r\\n\\f]+/g );\n\n\n\n// Convert String-formatted options into Object-formatted
ones\nfunction createOptions( options ) {\n\tvar object = {};\n\tjQuery.each( options.match( rnothtmlwhite ) || [],
function( _, flag ) {\n\t\tobject[ flag ] = true;\n\t} );\n\treturn object;\n}\n\n/*\n * Create a callback list using the
following parameters:\n *\n *\toptions: an optional list of space-separated options that will change how\n *\t\t\tthe
callback list behaves or a more traditional option object\n *\n * By default a callback list will act like an event
callback list and can be\n * \"fired\" multiple times.\n *\n * Possible options:\n *\n *\tonce:\t\t\twill ensure the
callback list can only be fired once (like a Deferred)\n *\n *\tmemory:\t\t\twill keep track of previous values and will

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call any callback added\n *\t\t\t\t\tafter the list has been fired right away with the latest \"memorized\"\n
*\t\t\t\t\tvalues (like a Deferred)\n *\n *\tunique:\t\t\twill ensure a callback can only be added once (no duplicate in
the list)\n *\n *\tstopOnFalse:\tinterrupt callings when a callback returns false\n *\n */\njQuery.Callbacks =
function( options ) {\n\n\t// Convert options from String-formatted to Object-formatted if needed\n\t// (we check in
cache first)\n\toptions = typeof options === \"string\" ?\n\t\tcreateOptions( options ) :\n\t\tjQuery.extend( {}, options
);\n\n\tvar // Flag to know if list is currently firing\n\t\tfiring,\n\n\t\t// Last fire value for non-forgettable
lists\n\t\tmemory,\n\n\t\t// Flag to know if list was already fired\n\t\tfired,\n\n\t\t// Flag to prevent
firing\n\t\tlocked,\n\n\t\t// Actual callback list\n\t\tlist = [],\n\n\t\t// Queue of execution data for repeatable
lists\n\t\tqueue = [],\n\n\t\t// Index of currently firing callback (modified by add/remove as needed)\n\t\tfiringIndex =
-1,\n\n\t\t// Fire callbacks\n\t\tfire = function() {\n\n\t\t\t// Enforce single-firing\n\t\t\tlocked = locked ||
options.once;\n\n\t\t\t// Execute callbacks for all pending executions,\n\t\t\t// respecting firingIndex overrides and
runtime changes\n\t\t\tfired = firing = true;\n\t\t\tfor ( ; queue.length; firingIndex = -1 ) {\n\t\t\t\tmemory =
queue.shift();\n\t\t\t\twhile ( ++firingIndex < list.length ) {\n\n\t\t\t\t\t// Run callback and check for early
termination\n\t\t\t\t\tif ( list[ firingIndex ].apply( memory[ 0 ], memory[ 1 ] ) === false
&&\n\t\t\t\t\t\toptions.stopOnFalse ) {\n\n\t\t\t\t\t\t// Jump to end and forget the data so .add doesn't refire\n\t\t\t\t\t\tfiringIndex = list.length;\n\t\t\t\t\t\tmemory = false;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Forget the data
if we're done with it\n\t\t\tif ( !options.memory ) {\n\t\t\t\tmemory = false;\n\t\t\t}\n\n\t\t\tfiring = false;\n\n\t\t\t//
Clean up if we're done firing for good\n\t\t\tif ( locked ) {\n\n\t\t\t\t// Keep an empty list if we have data for future
add calls\n\t\t\t\tif ( memory ) {\n\t\t\t\t\tlist = [];\n\n\t\t\t\t// Otherwise, this object is spent\n\t\t\t\t} else
{\n\t\t\t\t\tlist = \"\";\n\t\t\t\t}\n\t\t\t}\n\t\t},\n\n\t\t// Actual Callbacks object\n\t\tself = {\n\n\t\t\t// Add a callback or a
collection of callbacks to the list\n\t\t\tadd: function() {\n\t\t\t\tif ( list ) {\n\n\t\t\t\t\t// If we have memory from a past
run, we should fire after adding\n\t\t\t\t\tif ( memory && !firing ) {\n\t\t\t\t\t\tfiringIndex = list.length 1;\n\t\t\t\t\t\tqueue.push( memory );\n\t\t\t\t\t}\n\n\t\t\t\t\t( function add( args ) {\n\t\t\t\t\t\tjQuery.each( args,
function( _, arg ) {\n\t\t\t\t\t\t\tif ( isFunction( arg ) ) {\n\t\t\t\t\t\t\t\tif ( !options.unique || !self.has( arg ) )
{\n\t\t\t\t\t\t\t\t\tlist.push( arg );\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t} else if ( arg && arg.length && toType( arg ) !==
\"string\" ) {\n\n\t\t\t\t\t\t\t\t// Inspect recursively\n\t\t\t\t\t\t\t\tadd( arg );\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t} );\n\t\t\t\t\t} )(
arguments );\n\n\t\t\t\t\tif ( memory && !firing ) {\n\t\t\t\t\t\tfire();\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\n\t\t\t// Remove a callback from the list\n\t\t\tremove: function() {\n\t\t\t\tjQuery.each( arguments,
function( _, arg ) {\n\t\t\t\t\tvar index;\n\t\t\t\t\twhile ( ( index = jQuery.inArray( arg, list, index ) ) > -1 )
{\n\t\t\t\t\t\tlist.splice( index, 1 );\n\n\t\t\t\t\t\t// Handle firing indexes\n\t\t\t\t\t\tif ( index <= firingIndex )
{\n\t\t\t\t\t\t\tfiringIndex--;\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t} );\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// Check if a given
callback is in the list.\n\t\t\t// If no argument is given, return whether or not list has callbacks attached.\n\t\t\thas:
function( fn ) {\n\t\t\t\treturn fn ?\n\t\t\t\t\tjQuery.inArray( fn, list ) > -1 :\n\t\t\t\t\tlist.length > 0;\n\t\t\t},\n\n\t\t\t//
Remove all callbacks from the list\n\t\t\tempty: function() {\n\t\t\t\tif ( list ) {\n\t\t\t\t\tlist = [];\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\n\t\t\t// Disable .fire and .add\n\t\t\t// Abort any current/pending executions\n\t\t\t// Clear all callbacks
and values\n\t\t\tdisable: function() {\n\t\t\t\tlocked = queue = [];\n\t\t\t\tlist = memory = \"\";\n\t\t\t\treturn
this;\n\t\t\t},\n\t\t\tdisabled: function() {\n\t\t\t\treturn !list;\n\t\t\t},\n\n\t\t\t// Disable .fire\n\t\t\t// Also disable .add
unless we have memory (since it would have no effect)\n\t\t\t// Abort any pending executions\n\t\t\tlock: function()
{\n\t\t\t\tlocked = queue = [];\n\t\t\t\tif ( !memory && !firing ) {\n\t\t\t\t\tlist = memory = \"\";\n\t\t\t\t}\n\t\t\t\treturn
this;\n\t\t\t},\n\t\t\tlocked: function() {\n\t\t\t\treturn !!locked;\n\t\t\t},\n\n\t\t\t// Call all callbacks with the given
context and arguments\n\t\t\tfireWith: function( context, args ) {\n\t\t\t\tif ( !locked ) {\n\t\t\t\t\targs = args ||
[];\n\t\t\t\t\targs = [ context, args.slice ? args.slice() : args ];\n\t\t\t\t\tqueue.push( args );\n\t\t\t\t\tif ( !firing )
{\n\t\t\t\t\t\tfire();\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// Call all the callbacks with the given
arguments\n\t\t\tfire: function() {\n\t\t\t\tself.fireWith( this, arguments );\n\t\t\t\treturn this;\n\t\t\t},\n\n\t\t\t// To
know if the callbacks have already been called at least once\n\t\t\tfired: function() {\n\t\t\t\treturn
!!fired;\n\t\t\t}\n\t\t};\n\n\treturn self;\n};\n\n\nfunction Identity( v ) {\n\treturn v;\n}\nfunction Thrower( ex )
{\n\tthrow ex;\n}\n\nfunction adoptValue( value, resolve, reject, noValue ) {\n\tvar method;\n\n\ttry {\n\n\t\t//
Check for promise aspect first to privilege synchronous behavior\n\t\tif ( value && isFunction( ( method =

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value.promise() ) ) ) } \( 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```javascript
	
tuple[ 0 ] + "With" ] = list.fireWith;\n
		} ;\n
		// Make the deferred a promise\n
		promise.promise( deferred );\n
		// Call given func if any\n
		downloaded deferred ( func ) {\n
			func.call( deferred, deferred );\n
		only!\n
		\} ;\n
		// Deferred helper\n
	// when: function( singleValue ) {\n
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```

"With" ] = list.fireWith;\n
		} );\n
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branch\n\n2. Improve the module's maintainability by reducing the storage\n\npaths to a single mechanism.\n\n3. Use the same single mechanism to support "private" and "user" data.\n\n4. Never expose "private" data to user code (TODO: Drop _data, _removeData)\n\n5. Avoid exposing implementation details on user objects (eg. expando properties)\n\n6. Provide a clear path for implementation upgrade to WeakMap in\n\n2014
\nfunction getData( data ) {\n    \n    if ( fn ) {\n        \n        // Add a progress sentinel to prevent the fx queue from being\n        \n        if ( fn === "inprogress" ) {\n            fn = queue.shift();\n            startLength--\n        }\n    }\n    \n    // If the fx queue is dequeued, always\n    \n    queue = jQuery.queue( elem, type );\n    startLength = queue.length;\n    fn = queue.shift();\n    \n    // Speed up dequeue by getting out quickly if this is just a\n    \n    queue = dataPriv.get( elem, type );\n    \n    \n    // Attempt to "discover" the data in\n    \n    if ( elem && value === undefined ) {\n        \n        \n        \n        \n        \n        


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```javascript
var temp, doc = elem.ownerDocument, nodeName = elem.nodeName, display = defaultDisplayMap[ nodeName ];

if ( display ) {
    return display;
}

temp = doc.body.appendChild( doc.createElement( nodeName ) );
display = jQuery.css( temp, "display" );

temp.parentNode.removeChild( temp );

if ( display === "none" ) {
    display = "block";
}
defaultDisplayMap[ nodeName ] = display;

function showHide( elements, show ) {
    var display, elem, values = [], index = 0, length = elements.length, init = /

    // Display new display value for elements that need to change
    index < length; index++) {
        elem = elements[ index ];

        if ( elem.nodeType ) {
            var temp = doc.createElement( elem.nodeName ),
                display = temp.style.display,
                nodeNames = elem.nodeName;

            if ( display ) {
                return display;
            }

            temp = doc.body.appendChild( temp );
            display = jQuery.css( temp, "display" );

            temp.parentNode.removeChild( temp );

            if ( display === "none" ) {
                display = "block";
            }

            defaultDisplayMap[ nodeNames ] = display;

            return display;
        }
    }

    var display = elem.style.display || ( nodeNames in defaultDisplayMap ) ?
        defaultDisplayMap[ nodeNames ] : null;

    if ( display === "none" ) {
        display = "block";
    }

    return display;
}

function show( elem ) {
    return showHide( [ elem ], true );
}

function hide( elem ) {
    return showHide( [ elem ], false );
}

jQuery.fn.extend( {
    show: function() {
        return show( this );
    },
    hide: function() {
        return hide( this );
    },
    toggle: function( state ) {
        if ( typeof state === "boolean" ) {
            return state ? this.show() : this.hide();
        }

        return this.each( function() {
            if ( isHiddenWithinTree( this ) ) {
                jQuery( this ).show();
            } else {
                jQuery( this ).hide();
            }
        } );
    }
} );

var wrapMap = {
    // Support: IE <=9 only
    option: [ 1, "<select multiple='multiple'>", "</select>" ],
    thead: [ 1, "<table>", "</table>" ],
    col: [ 2, "<table><colgroup>", "</colgroup></table>" ],
    tr: [ 2, "<table><tbody>", "</tbody></table>" ],
    td: [ 3, "<table><tbody><tr>", "</tr></tbody></table>" ],
    _default: [ 0, "", "" ]
};

wrapMap.optgroup = wrapMap.option;

wrapMap.tbody = wrapMap.tfoot = wrapMap.colgroup = wrapMap.caption = wrapMap.thead;
wrapMap.th = wrapMap.td;

function getAll( context, tag ) {
    var ret;

    if ( typeof context.getElementsByTagName !== "undefined" ) {
        ret = context.getElementsByTagName( tag || "*" );
    } else if ( typeof context.querySelectorAll !== "undefined" ) {
        ret = context.querySelectorAll( tag || "*" );
    } else {
        ret = [ ];
    }

    if ( tag === undefined || tag && nodeName( context, tag ) ) {
        return jQuery.merge( [ context ], ret );
    }

    return ret;
}

function setGlobalEval( elems, refElements ) {
    var i = 0, l = elems.length;

    for ( ; i < l; i++ ) {
        dataPriv.set( elems[ i ], "globalEval", !refElements || dataPriv.get( refElements[ i ], "globalEval" ) );
    }
}

function buildFragment( elems, context, scripts, selection, ignored ) {
    var elem, tmp, tag, wrap, contains, j, fragment = context.createDocumentFragment(), nodes = [], i;

    for ( ; i < l; i++ ) {
        elem = elems[ i ];

        if ( elem || elem === 0 ) {
            if ( toType( elem ) === "object" ) {
                // Support: Android <=4.0 only, PhantomJS 1 only
                jQuery.merge( nodes, elem.nodeType ? [ elem ] : elem );
            } else if ( !rhtml.test( elem ) ) {
                nodes.push( context.createTextNode( elem ) );
            }

            html = /<|&#\w+;/;

            if ( !html.test( elem ) ) {
                var nodes = context.getElementsByTagName( elem ),
                    i = nodes.length;

                for ( ; i-- > 0; ) {
                    tmp = nodes[ i ];

                    if ( tmp.nodeType === 1 ) {
                        fragment.appendChild( tmp );
                    }
                }
            }

            if ( contains.nodeType ) {
                contains.appendChild( fragment );
            } else {
                contains.appendChild( fragment.childNodes[ 0 ] || fragment );
            }
        }
    }

    return contains;
}

function defaultDisplay( elem ) {
    var display, nodeNames = elem.nodeName,
        displayMap = dataPriv.get( elem, "displayMap" ) || ( nodeNames in defaultDisplayMap ) ?
        defaultDisplayMap[ nodeNames ] : null;

    if ( displayMap ) {
        return displayMap;
    }

    display = elem.style.display;
    nodeNames = elem.nodeName;

    if ( displayMap ) {
        return displayMap;
    }

    display = elem.style.display;

    if ( display === "none" ) {
        display = "block";
    }

    if ( !displayMap ) {
        defaultDisplayMap[ nodeNames ] = display;
    }

    return display;
}

function getDefaultDisplay( elem ) {
    var style = elem.style.display;
    nodeNames = elem.nodeName;

    if ( style === "none" ) {
        return "block";
    }

    return style;
}

function isHiddenWithinTree( elem ) {
    var nodeNames = elem.nodeName;

    return elem.style.display === "none" || ( nodeNames in defaultDisplayMap ) ?
        defaultDisplayMap[ nodeNames ] : null;
}

function isHiddenWithinTree( elem ) {
    var nodeNames = elem.nodeName;

    return elem.style.display === "none" || ( nodeNames in defaultDisplayMap ) ?
        defaultDisplayMap[ nodeNames ] : null;
}

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    var nodeNames = elem.nodeName;

    return elem.style.display === "none" || ( nodeNames in defaultDisplayMap ) ?
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}

function isHiddenWithinTree( elem ) {
    var nodeNames = elem.nodeName;

    return elem.style.display === "none" || ( nodeNames in defaultDisplayMap ) ?
        defaultDisplayMap[ nodeNames ] : null;
}
For checkbox, fire native event so checked state will be right:

```
function() {
  this.type === 'checkbox' &&
  this.click &&
  nodeName( this, 'input' ) &&
  trigger();
}
```

For cross-browser consistency, don't fire native .click() on links:

```
function( event ) {
  if ( this.type === 'checkbox' && this.click &&
  nodeName( this, 'input' ) ) {
    this.click();
    return;
  }
}
```

```
// For cross-browser consistency, don't fire native .click() on links
_default: function( event ) {
  return nodeName( event.target, 'a' );
}
```

```
// For checkbox, fire native event so checked state will be right
trigger: function() {
  if ( this.type === 'checkbox' && this.click &&
  nodeName( this, 'input' ) ) {
    this.click();
    return;
  }
},
```

```
beforeunload:
postDispatch: function( event ) {
  // Support: Firefox 20+
  if ( event.result !== undefined && event.originalEvent ) {
    event.originalEvent.returnValue = event.result;
  }
},
```

```
removeEvent =
function( elem, type, handle ) {
  // This 'if' is needed for plain objects
  if ( elem.removeEventListener ) {
    elem.removeEventListener( type, handle );
  }
},
```

```
Event =
function( src, props ) {
  // Allow instantiation without the 'new' keyword
  if ( !( this instanceof jQuery.Event ) ) {
    return new jQuery.Event( src, props );
  }

  // Event object
  if ( src && src.type ) {
    this.originalEvent = src;
    this.type = src.type;
    this.target = src.target;
    this.currentTarget = src.currentTarget;
    this.relatedTarget = src.relatedTarget;
  } else {
    this.type = src;
  }

  // Put explicitly provided properties onto the event object
  if ( props ) {
    jQuery.extend( this, props );
  }

  // Create a timestamp if incoming event doesn't have one
  this.timeStamp = src && src.timeStamp || Date.now();

  // Mark it as fixed
  this[ jQuery.expando ] = true;
};
```

```
// Includes all common event props including KeyEvent and MouseEvent specific props
jQuery.each( {
  altKey: true,
  bubbles: true,
  cancelable: true,
  changedTouches: true,
  char: true,
  charCode: true,
  click: true,
  ctrlKey: true,
  currentTarget: true,
  detail: true,
  eventPhase: true,
  metaKey: true,
  pageX: true,
  pageY: true,
  pointerId: true,
  pointerType: true,
  region: true,
  screenX: true,
  screenY: true,
  shiftKey: true,
  stopImmediatePropagation: function() {
    this.preventDefault();
  },
  stopPropagation: function() {
    this.stopPropagation();
  },
  tap: true,
  targetTouches: true,
  toElement: true,
  touches: true,
  touchId: function( event ) {
    // event which is null &k栲event.test( event.type ) } ) {
    return return event.charCode != null ?
    event.charCode : event.keyCode;
  },
  view: true,
  which: function( event ) {
    var which = undefined &
    rmouseEvent.test( event.type ) ) {
    return return ( button & 1 ) ||
    return return ( button & 2 ) ||
    return return ( button & 4 ) ||
    return return ( button & 8 ) ||
    return return 2;
  },
  which: function( event ) {
    // Add which for key events
    return which;
  },
  _interopRequireDefault: function( orig, fix ) {
    // Create mouseenter/leave events using mouseover/out and event-time checks
    // so that event delegation works in jQuery.
    Do the same for pointerenter/pointerleave and pointerover/pointerout:
```

---

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function( event ) {\n\t\t\tvar ret,\n\t\t\t\ttarget = this,\n\t\t\t\trelated = event.relatedTarget,\n\t\t\t\thandleObj =
event.handleObj;\n\n\t\t\t// For mouseenter/leave call the handler if related is outside the target.\n\t\t\t// NB: No
relatedTarget if the mouse left/entered the browser window\n\t\t\tif ( !related || ( related !== target &&
!jQuery.contains( target, related ) ) ) {\n\t\t\t\tevent.type = handleObj.origType;\n\t\t\t\tret =
handleObj.handler.apply( this, arguments );\n\t\t\t\tevent.type = fix;\n\t\t\t}\n\t\t\treturn ret;\n\t\t}\n\t};\n}
);\n\njQuery.fn.extend( {\n\n\ton: function( types, selector, data, fn ) {\n\t\treturn on( this, types, selector, data, fn
);\n\t},\n\tone: function( types, selector, data, fn ) {\n\t\treturn on( this, types, selector, data, fn, 1 );\n\t},\n\toff:
function( types, selector, fn ) {\n\t\tvar handleObj, type;\n\t\tif ( types && types.preventDefault &&
types.handleObj ) {\n\n\t\t\t// ( event ) dispatched jQuery.Event\n\t\t\thandleObj = types.handleObj;\n\t\t\tjQuery(
types.delegateTarget ).off(\n\t\t\t\thandleObj.namespace ?\n\t\t\t\t\thandleObj.origType + \".\" +
handleObj.namespace
:\n\t\t\t\t\thandleObj.origType,\n\t\t\t\thandleObj.selector,\n\t\t\t\thandleObj.handler\n\t\t\t);\n\t\t\treturn
this;\n\t\t}\n\t\tif ( typeof types === \"object\" ) {\n\n\t\t\t// ( types-object [, selector] )\n\t\t\tfor ( type in types )
{\n\t\t\t\tthis.off( type, selector, types[ type ] );\n\t\t\t}\n\t\t\treturn this;\n\t\t}\n\t\tif ( selector === false || typeof
selector === \"function\" ) {\n\n\t\t\t// ( types [, fn] )\n\t\t\tfn = selector;\n\t\t\tselector = undefined;\n\t\t}\n\t\tif ( fn
=== false ) {\n\t\t\tfn = returnFalse;\n\t\t}\n\t\treturn this.each( function() {\n\t\t\tjQuery.event.remove( this, types,
fn, selector );\n\t\t} );\n\t}\n} );\n\n\nvar\n\n\t/* eslint-disable max-len */\n\n\t// See
https://github.com/eslint/eslint/issues/3229\n\trxhtmlTag = /<(?!area|br|col|embed|hr|img|input|link|meta|param)(([az][^\\/\\0>\\x20\\t\\r\\n\\f]*)[^>]*)\\/>/gi,\n\n\t/* eslint-enable */\n\n\t// Support: IE <=10 - 11, Edge 12 - 13 only\n\t//
In IE/Edge using regex groups here causes severe slowdowns.\n\t// See
https://connect.microsoft.com/IE/feedback/details/1736512/\n\trnoInnerhtml = /<script|<style|<link/i,\n\n\t//
checked=\"checked\" or checked\n\trchecked = /checked\\s*(?:[^=]|=\\s*.checked.)/i,\n\trcleanScript =
/^\\s*<!(?:\\[CDATA\\[|--)|(?:\\]\\]|--)>\\s*$/g;\n\n// Prefer a tbody over its parent table for containing new
rows\nfunction manipulationTarget( elem, content ) {\n\tif ( nodeName( elem, \"table\" ) &&\n\t\tnodeName(
content.nodeType !== 11 ? content : content.firstChild, \"tr\" ) ) {\n\n\t\treturn jQuery( elem ).children( \"tbody\" )[
0 ] || elem;\n\t}\n\n\treturn elem;\n}\n\n// Replace/restore the type attribute of script elements for safe DOM
manipulation\nfunction disableScript( elem ) {\n\telem.type = ( elem.getAttribute( \"type\" ) !== null ) + \"/\" +
elem.type;\n\treturn elem;\n}\nfunction restoreScript( elem ) {\n\tif ( ( elem.type || \"\" ).slice( 0, 5 ) === \"true/\" )
{\n\t\telem.type = elem.type.slice( 5 );\n\t} else {\n\t\telem.removeAttribute( \"type\" );\n\t}\n\n\treturn
elem;\n}\n\nfunction cloneCopyEvent( src, dest ) {\n\tvar i, l, type, pdataOld, pdataCur, udataOld, udataCur,
events;\n\n\tif ( dest.nodeType !== 1 ) {\n\t\treturn;\n\t}\n\n\t// 1. Copy private data: events, handlers, etc.\n\tif (
dataPriv.hasData( src ) ) {\n\t\tpdataOld = dataPriv.access( src );\n\t\tpdataCur = dataPriv.set( dest, pdataOld
);\n\t\tevents = pdataOld.events;\n\n\t\tif ( events ) {\n\t\t\tdelete pdataCur.handle;\n\t\t\tpdataCur.events =
{};\n\n\t\t\tfor ( type in events ) {\n\t\t\t\tfor ( i = 0, l = events[ type ].length; i < l; i++ ) {\n\t\t\t\t\tjQuery.event.add(
dest, type, events[ type ][ i ] );\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t}\n\n\t// 2. Copy user data\n\tif ( dataUser.hasData( src ) )
{\n\t\tudataOld = dataUser.access( src );\n\t\tudataCur = jQuery.extend( {}, udataOld );\n\n\t\tdataUser.set( dest,
udataCur );\n\t}\n}\n\n// Fix IE bugs, see support tests\nfunction fixInput( src, dest ) {\n\tvar nodeName =
dest.nodeName.toLowerCase();\n\n\t// Fails to persist the checked state of a cloned checkbox or radio button.\n\tif (
nodeName === \"input\" && rcheckableType.test( src.type ) ) {\n\t\tdest.checked = src.checked;\n\n\t// Fails to
return the selected option to the default selected state when cloning options\n\t} else if ( nodeName === \"input\" ||
nodeName === \"textarea\" ) {\n\t\tdest.defaultValue = src.defaultValue;\n\t}\n}\n\nfunction domManip( collection,
args, callback, ignored ) {\n\n\t// Flatten any nested arrays\n\targs = concat.apply( [], args );\n\n\tvar fragment, first,
scripts, hasScripts, node, doc,\n\t\ti = 0,\n\t\tl = collection.length,\n\t\tiNoClone = l - 1,\n\t\tvalue = args[ 0
],\n\t\tvalueIsFunction = isFunction( value );\n\n\t// We can't cloneNode fragments that contain checked, in
WebKit\n\tif ( valueIsFunction ||\n\t\t\t( l > 1 && typeof value === \"string\" &&\n\t\t\t\t!support.checkClone &&
rchecked.test( value ) ) ) {\n\t\treturn collection.each( function( index ) {\n\t\t\tvar self = collection.eq( index
);\n\t\t\tif ( valueIsFunction ) {\n\t\t\t\targs[ 0 ] = value.call( this, index, self.html() );\n\t\t\t}\n\t\t\tdomManip( self,
args, callback, ignored );\n\t\t} );\n\t}\n\n\tif ( l ) {\n\t\tfragment = buildFragment( args, collection[ 0

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jQuery.fn.extend({
detach: function(selector) {
	return
}
});

jQuery.extend({
htmlPrefilter: function(html) {
	return html.replace(/<script[^>]*>([^<]+)</script>/, "" );
}
});

jQuery.map = function( array, callback ) {
	for ( var i = 0, l = array.length; i < l; i++ ) {
		callback( array[ i ], i );
	}
	return array;
}

jQuery.inArray = function(element, collection) {
	for ( var i = 0, l = collection.length; i < l; i++ ) {
		if ( collection[ i ] == element ) {
			return i;
		}
	}
	return -1;
}

jQuery.merge = function( first, second ) {
	for ( var i = 0, l = second.length; i < l; i++ ) {
		first[ i ] = second[ i ];
	}
	return first;
}

jQuery.extend( { ... }, dataAndEvents );

jQuery._evalUrl = function( url, options ) {
	return jQuery._evalUrl( url, options, node.ownerDocument, node );
}

jQuery._evalUrl = function( url, options, parentDocument, node ) {
	if ( parentDocument ) {
		if ( keepData && jQuery.contains( parentDocument, node ) ) {
			jQuery.cleanData( getAll( node ) );
		}
		if ( node.src && ( node.type || "" ).toLowerCase()  !== "module" ) {
			jQuery.merge( scripts, getAll( node, "script" ) );
		}
		return scripts[ scripts.length - 1 ];
	}
	var node, i, nodes = selector ? jQuery.filter( selector, elem ) : elem,
		callback, scripts, hasScripts = scripts.length > 0;

	var first, ignored = false, collection, elem,...
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divStyle = window.getComputedStyle( div );

pixelPositionVal = divStyle.top !== "1%";

// Support: Android 4.0 - 4.3 only, Firefox <=3 - 44
reliableMarginLeftVal = roundPixelMeasures( divStyle.marginLeft ) === 12;

// Support: Android 4.0 - 4.3 only, Safari <=9.1 - 10.1, iOS <=7.0 - 9.3
// Some styles come back with percentage values, even though they shouldn't,
// divStyle.style.right = \"60\%\"; pixelBoxStylesVal = roundPixelMeasures( divStyle.right ) === 36;

// Support: IE 9 - 11 only\n// Detect misreporting of content dimensions for box-sizing:border-box elements
boxSizingReliableVal = roundPixelMeasures( divStyle.width ) === 36;

// Support: IE 9 only\n// Detect overflow:scroll screwiness (gh-3699)
scrollboxSizeVal = div.offsetWidth === 36 || div.style.position === \"absolute\";

// Nullify the div so it wouldn't be stored in the memory and it will also be a sign that checks
// already performed\n// div = null;

// Finish early in limited (non-browser) environments\nif( !div.style ){
  return;
}

// Support: IE <=9 - 11 only\n// Style of cloned element affects source element cloned
// (#8908)\ntest.style.backgroundClip = \"content-box\";
div.cloneNode( true ).style.backgroundClip = \"\";

// Add a clearCloneStyle (IE 9 only) as a check for
// whether the style.effect is reliable
support.clearCloneStyle = div.style.backgroundClip === "content-box";

// Extend support\njQuery.extend( support,
{
  boxSizingReliable: function() {
    computeStyleTests();
    return boxSizingReliableVal;
  },
  pixelBoxStyles: function() {
    computeStyleTests();
    return pixelBoxStylesVal;
  },
  pixelPosition: function() {
    computeStyleTests();
    return pixelPositionVal;
  },
  reliableMarginLeft: function() {
    computeStyleTests();
    return reliableMarginLeftVal;
  },
  scrollboxSize: function() {
    computeStyleTests();
    return scrollboxSizeVal;
  },
} );

function computeStyleTests() {
  // Use jQuery styles first\n  if( "\"filter\"" in support) {
    computeStyleTests();
  }

  var

  // Swappable if display is none or starts with table
  // except \"table\", \"table-cell\", or \"table-caption\"
  // See here for display values: https://developer.mozilla.org/en-US/docs/CSS/display
  tdisplayswap = /^(none|table(?!-[ca]).+)/,
  tcustomProp = /^--/,
  cssShow = { position: \"absolute\", visibility: \"hidden\", display: \"block\" },
  cssNormalTransform = { position: \"\" },
  tcssNormalShow = { position: \"\" },
  tcssFontWeight = { position: \"\" },
  tcssPrefixes = [ \"Webkit\", \"Moz\", \"ms\" ],
  temptyStyle = document.createElement( \"div\" ),
  tstyle = /
  return a css property mapped to a potentially vendor prefixed property\n  function vendorPropName( name ) {
    return ( name in tcssPrefixes ) ? name : name;
  }

  // Define the hook, we'll check on the first run if it's really needed.
  tget = hookFn();

  // Revert the changed values\n  width = tstyle.style.width;
  minWidth = tstyle.style.minWidth;
  maxWidth = tstyle.style.maxWidth;

  // Put in the new values to get a computed value
  tstyle.style.width = styles.minWidth;
  tstyle.style.minWidth = styles.minWidth;
  tstyle.style.maxWidth = styles.maxWidth;

  // Hook needed; redefine it so that the support test is not
  // executed again\n  tget = hookFn();

  // Check for vendor prefixed names\n  if( name !== \"\" ){
    tget()
  }

cssPrefixes[ i ] } + capName; try {
		if ( i < 0 ) {
			return name;
		}
	}
	}

// Return a property mapped along what jQuery.cssProps suggests or to/from a vendor prefixed property.

function finalPropName( name ) {

	var ret = jQuery.cssProps[ name ];
	if ( !ret ) {
		ret = jQuery.cssProps[ name ] = vendorPropName( name ) || name;
	}
	return ret;
}

function setPositiveNumber( elem, value, subtract ) {

	// Any relative (+/-) values have already been normalized at this point!
	var matches = rcssNum.exec( value );
	return matches

		// Guard against undefined "subtract"!, e.g., when used in cssHooks.
		// Math.max( 0, matches[ 2 ] ) - ( subtract || 0 ) ) + ( matches[ 3 ] || "px" );
		return matches[ 2 ] || "px";
	}

function boxModelAdjustment( elem, dimension, box, isBorderBox, styles, computedVal ) {

	var i = dimension === "width" ? 1 : 0,
		extra = 0,
		delta = 0;

	// Adjustment may not be necessary
	if ( box !== isBorderBox ? "border" : "content" ) { return 0; }

	// Both box models exclude margin
	if ( i < 4; i += 2 ) {
		return;
	}

	// If we get here with a content-box, we're seeking "padding" or "border" or "margin"...
	if ( i ) {

		// Add padding
		delta += jQuery.css( elem, "padding" + cssExpand[ i ] );
	}

	// For "border" or "margin", add border
	if ( i ) {

		delta += jQuery.css( elem, "border" + cssExpand[ i ] + "Width" );

	// But still keep track of it otherwise!
	else {

		delta += jQuery.css( elem, "border" + cssExpand[ i ] + "Width", true, styles );

	// For "content", subtract padding
	if ( i !== "margin" ) {

		delta -= jQuery.css( elem, "padding" + cssExpand[ i ] + "Width", true, styles );

	// But still keep track of it otherwise
	} else {

		extra += jQuery.css( elem, "border" + cssExpand[ i ] + "Width", true, styles );

	// If we get here with a border-box (content + padding + border), we're seeking "content" or "padding" or "margin"...
	} else {

		// For "content", or "padding", subtract border
		if ( box !== "margin" ) {

			// For "content", subtract padding
			if ( box !== "margin" ) {

				// For "content", or "padding", subtract border
				if ( box !== "margin" ) {

					// For "content", or "padding", subtract border
					if ( box !== "margin" ) {

						// For "content", or "padding", subtract border
						if ( box !== "margin" ) {

							// For "content", or "padding", subtract border
							if ( box !== "margin" ) {

								// For "content", or "padding", subtract border
								if ( box !== "margin" ) {

									// For "content", or "padding", subtract border
									if ( box !== "margin" ) {

										// For "content", or "padding", subtract border
										if ( box !== "margin" ) {

											// For "content", or "padding", subtract border
											if ( box !== "margin" ) {

												// For "content", or "padding", subtract border
												if ( box !== "margin" ) {

													// For "content", or "padding", subtract border
													if ( box !== "margin" ) {

														// For "content", or "padding", subtract border
														if ( box !== "margin" ) {

															// For "content", or "padding", subtract border
															if ( box !== "margin" ) {

																// For "content", or "padding", subtract border
																if ( box !== "margin" ) {

																	// For "content", or "padding", subtract border
																	if ( box !== "margin" ) {

																		// For "content", or "padding", subtract border
																		if ( box !== "margin" ) {

																			// For "content", or "padding", subtract border
																			if ( box !== "margin" ) {

																				// For "content", or "padding", subtract border
																				if ( box !== "margin" ) {

																					// For "content", or "padding", subtract border
true.

Add in properties whose names you wish to fix before setting or getting the value.

Get and set the style property on a DOM Node

Make sure that we're working with the right name.

Checks if we're setting a value or not (value == undefined).

Convert v+="" or v="" to relative numbers (#7345) (type: string)

& & (ret = rcssNum.exec(value)) && (ref || 1) (val: value) is adjustCSS( elem, name, ret )

Make sure that we're working with the right name.

If a number was passed in, add the unit (except for certain CSS properties)

Don't set styles on text and comment nodes

If a hook was provided, use that value, otherwise just set the specified value (hooks || !"set" in hooks)

If a hook was provided get the computed value from there (hooks & & 47 get47 in hooks)

If a hook was provided the computed value from the style object

Otherwise just get the value from the style object

If a hook was provided get the computed value from there (hooks & & 47 get47 in hooks)

If a hook was provided the computed value from the style object

Otherwise get the computed value exists, use that (val == undefined)

Convert vnormal47 to computed value (val == "normal") & & name in cssNormalTransform

Make numeric if forced or a qualifier was provided and val looks numeric (extra == "\"" || extra)

Using isNaN(num) ? num || 0 : val

If a hook was computed (current display style that would benefit from getBoundingClientRect)

$\text{support.scrollboxSize() ===}

 Support: Safari 8+/

Table columns in Safari have non-zero offsetWidth & zero\text{offsetHeight}.

getBoundingClientRect().width unless display is changed.

Support: IE <=11 only

Running getBoundingClientRect on a disconnected node

in IE throws an error.

If a hook was computed (current display style that would benefit from getBoundingClientRect)

$\text{rdisplayswap.test( jQuery.css( elem, \"display\" ) )}

Support: Safari 8+/

Table columns in Safari have non-zero offsetWidth & zero\text{offsetHeight}.

getBoundingClientRect().width unless display is changed.

Support: IE <=11 only

Running getBoundingClientRect on a disconnected node

in IE throws an error.
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```javascript
{ set: function( tween ) {
	if ( tween.elem.nodeType && tween.elem.parentNode ) {
		tween.elem[ tween.prop ] = tween.now;
	}
}

// Support: IE <=9 only
// Panic based
};

/* Use cssHook if its there.
	// Use .style if available and use plain properties where available.
	if ( hooks && hooks.get ) {
		hooks.get( this )
```
tween.prop ] = tween.now;\n\t}\n\n\njQuery.easing = { \nlinear: function( p ) { \nreturn p;\n}, \nswing: function( p ) { \nreturn 0.5 - Math.cos( p * 2 * Math.PI ) / 2;\n}, \n_default: \nswing;\n};\n\njQuery.fx = Tween.prototype.init;\n\n\njQuery.fx.step = {};

// Back compat <1.8 extension point
jQuery.fx.interval = 13;\njQuery.fx.tick = function( a, b, c ) {\n\n\n// Animations created synchronously will run synchronously\nfunction createFxNow( ) {\n\n\n// Generate parameters to create a standard animation\nfunction createFxNow( value, prop, animation ) {\n\n\n// Restrict "overflow" and "display" styles during box animations\n\n}
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value;\n\t\t}\n\n\t\tif ( hooks && \"get\" in hooks && ( ret = hooks.get( elem, name ) ) !== null ) {\n\t\t\treturn
ret;\n\t\t}\n\n\t\tret = jQuery.find.attr( elem, name );\n\n\t\t// Non-existent attributes return null, we normalize to
undefined\n\t\treturn ret == null ? undefined : ret;\n\t},\n\n\tattrHooks: {\n\t\ttype: {\n\t\t\tset: function( elem, value )
{\n\t\t\t\tif ( !support.radioValue && value === \"radio\" &&\n\t\t\t\t\tnodeName( elem, \"input\" ) ) {\n\t\t\t\t\tvar
val = elem.value;\n\t\t\t\t\telem.setAttribute( \"type\", value );\n\t\t\t\t\tif ( val ) {\n\t\t\t\t\t\telem.value =
val;\n\t\t\t\t\t}\n\t\t\t\t\treturn value;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t},\n\n\tremoveAttr: function( elem, value ) {\n\t\tvar
name,\n\t\t\ti = 0,\n\n\t\t\t// Attribute names can contain non-HTML whitespace characters\n\t\t\t//
https://html.spec.whatwg.org/multipage/syntax.html#attributes-2\n\t\t\tattrNames = value && value.match(
rnothtmlwhite );\n\n\t\tif ( attrNames && elem.nodeType === 1 ) {\n\t\t\twhile ( ( name = attrNames[ i++ ] ) )
{\n\t\t\t\telem.removeAttribute( name );\n\t\t\t}\n\t\t}\n\t}\n} );\n\n// Hooks for boolean attributes\nboolHook =
{\n\tset: function( elem, value, name ) {\n\t\tif ( value === false ) {\n\n\t\t\t// Remove boolean attributes when set to
false\n\t\t\tjQuery.removeAttr( elem, name );\n\t\t} else {\n\t\t\telem.setAttribute( name, name );\n\t\t}\n\t\treturn
name;\n\t}\n};\n\njQuery.each( jQuery.expr.match.bool.source.match( /\\w+/g ), function( i, name ) {\n\tvar getter =
attrHandle[ name ] || jQuery.find.attr;\n\n\tattrHandle[ name ] = function( elem, name, isXML ) {\n\t\tvar ret,
handle,\n\t\t\tlowercaseName = name.toLowerCase();\n\n\t\tif ( !isXML ) {\n\n\t\t\t// Avoid an infinite loop by
temporarily removing this function from the getter\n\t\t\thandle = attrHandle[ lowercaseName ];\n\t\t\tattrHandle[
lowercaseName ] = ret;\n\t\t\tret = getter( elem, name, isXML ) != null ?\n\t\t\t\tlowercaseName
:\n\t\t\t\tnull;\n\t\t\tattrHandle[ lowercaseName ] = handle;\n\t\t}\n\t\treturn ret;\n\t};\n} );\n\n\n\n\nvar rfocusable =
/^(?:input|select|textarea|button)$/i,\n\trclickable = /^(?:a|area)$/i;\n\njQuery.fn.extend( {\n\tprop: function( name,
value ) {\n\t\treturn access( this, jQuery.prop, name, value, arguments.length > 1 );\n\t},\n\n\tremoveProp: function(
name ) {\n\t\treturn this.each( function() {\n\t\t\tdelete this[ jQuery.propFix[ name ] || name ];\n\t\t} );\n\t}\n}
);\n\njQuery.extend( {\n\tprop: function( elem, name, value ) {\n\t\tvar ret, hooks,\n\t\t\tnType =
elem.nodeType;\n\n\t\t// Don't get/set properties on text, comment and attribute nodes\n\t\tif ( nType === 3 || nType
=== 8 || nType === 2 ) {\n\t\t\treturn;\n\t\t}\n\n\t\tif ( nType !== 1 || !jQuery.isXMLDoc( elem ) ) {\n\n\t\t\t// Fix
name and attach hooks\n\t\t\tname = jQuery.propFix[ name ] || name;\n\t\t\thooks = jQuery.propHooks[ name
];\n\t\t}\n\n\t\tif ( value !== undefined ) {\n\t\t\tif ( hooks && \"set\" in hooks &&\n\t\t\t\t( ret = hooks.set( elem,
value, name ) ) !== undefined ) {\n\t\t\t\treturn ret;\n\t\t\t}\n\n\t\t\treturn ( elem[ name ] = value );\n\t\t}\n\n\t\tif (
hooks && \"get\" in hooks && ( ret = hooks.get( elem, name ) ) !== null ) {\n\t\t\treturn ret;\n\t\t}\n\n\t\treturn
elem[ name ];\n\t},\n\n\tpropHooks: {\n\t\ttabIndex: {\n\t\t\tget: function( elem ) {\n\n\t\t\t\t// Support: IE <=9 - 11
only\n\t\t\t\t// elem.tabIndex doesn't always return the\n\t\t\t\t// correct value when it hasn't been explicitly
set\n\t\t\t\t// https://web.archive.org/web/20141116233347/http://fluidproject.org/blog/2008/01/09/getting-settingand-removing-tabindex-values-with-javascript/\n\t\t\t\t// Use proper attribute retrieval(#12072)\n\t\t\t\tvar tabindex =
jQuery.find.attr( elem, \"tabindex\" );\n\n\t\t\t\tif ( tabindex ) {\n\t\t\t\t\treturn parseInt( tabindex, 10
);\n\t\t\t\t}\n\n\t\t\t\tif (\n\t\t\t\t\trfocusable.test( elem.nodeName ) ||\n\t\t\t\t\trclickable.test( elem.nodeName )
&&\n\t\t\t\t\telem.href\n\t\t\t\t) {\n\t\t\t\t\treturn 0;\n\t\t\t\t}\n\n\t\t\t\treturn -1;\n\t\t\t}\n\t\t}\n\t},\n\n\tpropFix:
{\n\t\t\"for\": \"htmlFor\",\n\t\t\"class\": \"className\"\n\t}\n} );\n\n// Support: IE <=11 only\n// Accessing the
selectedIndex property\n// forces the browser to respect setting selected\n// on the option\n// The getter ensures a
default option is selected\n// when in an optgroup\n// eslint rule \"no-unused-expressions\" is disabled for this
code\n// since it considers such accessions noop\nif ( !support.optSelected ) {\n\tjQuery.propHooks.selected =
{\n\t\tget: function( elem ) {\n\n\t\t\t/* eslint no-unused-expressions: \"off\" */\n\n\t\t\tvar parent =
elem.parentNode;\n\t\t\tif ( parent && parent.parentNode )
{\n\t\t\t\tparent.parentNode.selectedIndex;\n\t\t\t}\n\t\t\treturn null;\n\t\t},\n\t\tset: function( elem ) {\n\n\t\t\t/* eslint
no-unused-expressions: \"off\" */\n\n\t\t\tvar parent = elem.parentNode;\n\t\t\tif ( parent )
{\n\t\t\t\tparent.selectedIndex;\n\n\t\t\t\tif ( parent.parentNode )
{\n\t\t\t\t\tparent.parentNode.selectedIndex;\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t};\n}\n\njQuery.each(
[\n\t\"tabIndex\",\n\t\"readOnly\",\n\t\"maxLength\",\n\t\"cellSpacing\",\n\t\"cellPadding\",\n\t\"rowSpan\",\n\t\"colS
pan\",\n\t\"useMap\",\n\t\"frameBorder\",\n\t\"contentEditable\"\n], function() {\n\tjQuery.propFix[
this.toLowerCase() ] = this;\n} );\n\n\n\n\n\t// Strip and collapse whitespace according to HTML spec\n\t//

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most common string cases

```javascript
if ( typeof ret === 'string' ) {
    return ret.replace( rreturn, '' )
} else {
    return ret;
}

ret = elem.value;

// Handle

if ( hooks &&
    'get' in hooks &&
    ( ret = hooks.get.

if ( elem ) {
    hooks = jQuery.valHooks[ elem.type ] ||
    jQuery.valHooks.

var rreturn = /\r/g;

jQuery.fn.extend(

if ( elem.nodeType === 1 &&
    ( ' ' + stripAndCollapse( getClass( elem ) ) + ' ' ).indexOf( className ) > -1 )

className, elem,

i = 0;

className = ' ' + selector + ' ';

while ( ( elem = this[ i++ ] ) ) {

	if ( isValidValue )
        className = getClass( this[ j ] );
    ( value == false ||

	return this;

toggleClass: function( value, stateVal ) {

```

https://infra.spec.whatwg.org/#strip-and-collapse-ascii-whitespace\n`function stripAndCollapse( value ) {\n    var tokens = value.match( mrothtmlwhite );\n    return tokens.join( ' ' );\n}\n\n\nfunction getClassName( elem ) {\n    var className = elem.getAttribute( 'class' ) || \n    \n    function classesToArray( value ) {\n        return tokens = value.match( mrothtmlwhite );\n    }\n    return function( value ) {\n        return tokens.join( ' ' );\n    }\n}\n```

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event.namespace = namespaces.join( "." );
event.rnamespace = event.namespace ?
    new RegExp( "(^|\\.)" + namespaces.join( "\\.(?:.*\\.|)" ) + "(\\.|$)" ) :
    null;

    // Clean up the event in case it is
    // being reused
    event.result = undefined;
    if ( !event.target ) {
        event.target = elem;
    }

    // Clone
    data = data == null ?
        [ event ]:
        jQuery.makeArray( data, [ event ] );

    // Allow special events to draw outside the lines
    special = jQuery.event.special[ type ] || {};
    if ( !onlyHandlers && special.trigger && special.trigger.apply( elem, data ) === false ) {
        return;
    }

    // Determine event propagation path in advance, per W3C events spec
    // Bubble up to document, then to window; watch for a global ownerDocument var
    // Only add window if we got to document (e.g., not plain obj or detached DOM)
    if ( !onlyHandlers && !special.noBubble && !isWindow( elem ) ) {

        bubbleType = special.delegateType || type;
        if ( !rfocusMorph.test( bubbleType + type ) ) {
            cur = cur.parentNode;
        }
        for ( ; cur; cur = cur.parentNode ) {
            eventPath.push( cur );
            tmp = cur;
        }

        // Only add window if we got to
        // Call a native DOM method on the target with the same name as the event.
        Don't do default actions on window,
        that's where global variables be (#6170)
        if ( ontype && isFunction( elem[type] ) && !isWindow( elem ) ) {
            jQuery.handler["handle"] = ( dataPriv.get( cur, ",event\"" ) || [] ) [ event.type ] &&
            NativeHandler["handle"] = ontype && cur[ ontype ] ?
                ( handle ) :
                NativeHandler.apply( cur, data );
            jQuery.event.triggered = ontype;
        }

        // Prevent re-triggering of the same
        event.isPropagationStopped() ) {
            jQuery.event.triggered = type;
            if ( event.isPropagationStopped() ) {
                return;
            }
            e = jQuery.extend(
                new jQuery.Event(),
                event,
                { type: type, isSimulated: true }
            );
            jQuery.event.trigger( type, data, elem );
        }
        jQuery.event.triggered = undefined;
        jQuery.event( type, elem, event );
        jQuery.event( type, elem, Event.prototype );
        return event.result;
    }

    // Piggyback on a donor event to simulate a
    // Related ticket - https://bugzilla.mozilla.org/show_bug.cgi?id=687787
    // Related ticket -
    // Focus in/out events fire after focus & blur events,
    // which is spec violation - http://www.w3.org/TR/DOM-Level-3-Events/#events-focusevent-event-order
    // Focus in/out events Usual for "focus(in | out)")
    if ( !support.focusin ) {
        jQuery.each( { focus: "focusin", blur: "focusout" }, function( orig, fix ) {
            jQuery.event.special[ fix ] = new jQuery.event.
                handle( orig, function( event ) {
                    return event.result;
                } );
            jQuery.fn.extend( { trigger: function( type, data ) {
                this[ 0 ].trigger( type, data, this );
                return true;
            } }, jQuery.fn.extend( {
                trigger: function( type, data ) {
                    this[ 0 ].trigger( type, data, this );
                } } )
            );
        });
    }

    // Attach a single capturing handler on the document
    while someone wants focusin/focusout
    Piggyback on a donor event to simulate a
different one
    // Only for "focus(in | out)")
    function( type, elem, event ) {
        var e = jQuery.extend( jQuery.event.special, jQuery.event );
        return true;
    };

    // Support: Firefox <=44
    // Firefox doesn't have
    // Related ticket -
    //在整个窗口刷新后焦点 blur events, 
    // which is spec
    // violation - http://www.w3.org/TR/DOM-Level-3-Events/#events-focusin-event-order
    // Support:
    // Chrome <=48 - 49, Safari <=9.0 - 9.1
    // In [ out] events fire after focus & blur events, 
    // which is spec violation - http://www.w3.org/TR/DOM-Level-3-Events/#events-focusin-event-order
addToPrefiltersOrTransports( structure ) {\n\n\t// dataTypeExpression is optional and defaults to \"*\"\n\treturn
function( dataTypeExpression, func ) {\n\n\t\tif ( typeof dataTypeExpression !== \"string\" ) {\n\t\t\tfunc =
dataTypeExpression;\n\t\t\tdataTypeExpression = \"*\";\n\t\t}\n\n\t\tvar dataType,\n\t\t\ti = 0,\n\t\t\tdataTypes =
dataTypeExpression.toLowerCase().match( rnothtmlwhite ) || [];\n\n\t\tif ( isFunction( func ) ) {\n\n\t\t\t// For each
dataType in the dataTypeExpression\n\t\t\twhile ( ( dataType = dataTypes[ i++ ] ) ) {\n\n\t\t\t\t// Prepend if
requested\n\t\t\t\tif ( dataType[ 0 ] === \"+\" ) {\n\t\t\t\t\tdataType = dataType.slice( 1 ) || \"*\";\n\t\t\t\t\t( structure[
dataType ] = structure[ dataType ] || [] ).unshift( func );\n\n\t\t\t\t// Otherwise append\n\t\t\t\t} else {\n\t\t\t\t\t(
structure[ dataType ] = structure[ dataType ] || [] ).push( func );\n\t\t\t\t}\n\t\t\t}\n\t\t}\n\t};\n}\n\n// Base inspection
function for prefilters and transports\nfunction inspectPrefiltersOrTransports( structure, options, originalOptions,
jqXHR ) {\n\n\tvar inspected = {},\n\t\tseekingTransport = ( structure === transports );\n\n\tfunction inspect(
dataType ) {\n\t\tvar selected;\n\t\tinspected[ dataType ] = true;\n\t\tjQuery.each( structure[ dataType ] || [],
function( _, prefilterOrFactory ) {\n\t\t\tvar dataTypeOrTransport = prefilterOrFactory( options, originalOptions,
jqXHR );\n\t\t\tif ( typeof dataTypeOrTransport === \"string\" &&\n\t\t\t\t!seekingTransport && !inspected[
dataTypeOrTransport ] ) {\n\n\t\t\t\toptions.dataTypes.unshift( dataTypeOrTransport );\n\t\t\t\tinspect(
dataTypeOrTransport );\n\t\t\t\treturn false;\n\t\t\t} else if ( seekingTransport ) {\n\t\t\t\treturn !( selected =
dataTypeOrTransport );\n\t\t\t}\n\t\t} );\n\t\treturn selected;\n\t}\n\n\treturn inspect( options.dataTypes[ 0 ] ) ||
!inspected[ \"*\" ] && inspect( \"*\" );\n}\n\n// A special extend for ajax options\n// that takes \"flat\" options (not to
be deep extended)\n// Fixes #9887\nfunction ajaxExtend( target, src ) {\n\tvar key, deep,\n\t\tflatOptions =
jQuery.ajaxSettings.flatOptions || {};\n\n\tfor ( key in src ) {\n\t\tif ( src[ key ] !== undefined ) {\n\t\t\t( flatOptions[
key ] ? target : ( deep || ( deep = {} ) ) )[ key ] = src[ key ];\n\t\t}\n\t}\n\tif ( deep ) {\n\t\tjQuery.extend( true, target,
deep );\n\t}\n\n\treturn target;\n}\n\n/* Handles responses to an ajax request:\n * - finds the right dataType (mediates
between content-type and expected dataType)\n * - returns the corresponding response\n */\nfunction
ajaxHandleResponses( s, jqXHR, responses ) {\n\n\tvar ct, type, finalDataType, firstDataType,\n\t\tcontents =
s.contents,\n\t\tdataTypes = s.dataTypes;\n\n\t// Remove auto dataType and get content-type in the process\n\twhile
( dataTypes[ 0 ] === \"*\" ) {\n\t\tdataTypes.shift();\n\t\tif ( ct === undefined ) {\n\t\t\tct = s.mimeType ||
jqXHR.getResponseHeader( \"Content-Type\" );\n\t\t}\n\t}\n\n\t// Check if we're dealing with a known contenttype\n\tif ( ct ) {\n\t\tfor ( type in contents ) {\n\t\t\tif ( contents[ type ] && contents[ type ].test( ct ) )
{\n\t\t\t\tdataTypes.unshift( type );\n\t\t\t\tbreak;\n\t\t\t}\n\t\t}\n\t}\n\n\t// Check to see if we have a response for the
expected dataType\n\tif ( dataTypes[ 0 ] in responses ) {\n\t\tfinalDataType = dataTypes[ 0 ];\n\t} else {\n\n\t\t// Try
convertible dataTypes\n\t\tfor ( type in responses ) {\n\t\t\tif ( !dataTypes[ 0 ] || s.converters[ type + \" \" +
dataTypes[ 0 ] ] ) {\n\t\t\t\tfinalDataType = type;\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tif ( !firstDataType )
{\n\t\t\t\tfirstDataType = type;\n\t\t\t}\n\t\t}\n\n\t\t// Or just use first one\n\t\tfinalDataType = finalDataType ||
firstDataType;\n\t}\n\n\t// If we found a dataType\n\t// We add the dataType to the list if needed\n\t// and return the
corresponding response\n\tif ( finalDataType ) {\n\t\tif ( finalDataType !== dataTypes[ 0 ] )
{\n\t\t\tdataTypes.unshift( finalDataType );\n\t\t}\n\t\treturn responses[ finalDataType ];\n\t}\n}\n\n/* Chain
conversions given the request and the original response\n * Also sets the responseXXX fields on the jqXHR
instance\n */\nfunction ajaxConvert( s, response, jqXHR, isSuccess ) {\n\tvar conv2, current, conv, tmp,
prev,\n\t\tconverters = {},\n\n\t\t// Work with a copy of dataTypes in case we need to modify it for
conversion\n\t\tdataTypes = s.dataTypes.slice();\n\n\t// Create converters map with lowercased keys\n\tif (
dataTypes[ 1 ] ) {\n\t\tfor ( conv in s.converters ) {\n\t\t\tconverters[ conv.toLowerCase() ] = s.converters[ conv
];\n\t\t}\n\t}\n\n\tcurrent = dataTypes.shift();\n\n\t// Convert to each sequential dataType\n\twhile ( current )
{\n\n\t\tif ( s.responseFields[ current ] ) {\n\t\t\tjqXHR[ s.responseFields[ current ] ] = response;\n\t\t}\n\n\t\t// Apply
the dataFilter if provided\n\t\tif ( !prev && isSuccess && s.dataFilter ) {\n\t\t\tresponse = s.dataFilter( response,
s.dataType );\n\t\t}\n\n\t\tprev = current;\n\t\tcurrent = dataTypes.shift();\n\n\t\tif ( current ) {\n\n\t\t\t// There's only
work to do if current dataType is non-auto\n\t\t\tif ( current === \"*\" ) {\n\n\t\t\t\tcurrent = prev;\n\n\t\t\t// Convert
response if prev dataType is non-auto and differs from current\n\t\t\t} else if ( prev !== \"*\" && prev !== current )
{\n\n\t\t\t\t// Seek a direct converter\n\t\t\t\tconv = converters[ prev + \" \" + current ] || converters[ \"* \" + current
];\n\n\t\t\t\t// If none found, seek a pair\n\t\t\t\tif ( !conv ) {\n\t\t\t\t\tfor ( conv2 in converters ) {\n\n\t\t\t\t\t\t// If

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function( key ) {
					var match;
					if ( completed ) {
						if ( !responseHeaders )
						xhr
							jqXHR = {
							readyState: 0,

							// Builds headers hashtable if needed
							getResponseHeader:
							{},
							requestHeadersNames = {},

							// Default abort message
							strAbort = "canceled",

							// Fake
							statusCode = s.statusCode || {},

							// Headers (they are sent all at once)
							requestHeaders =
							jQuery.Deferred(),
							completeDeferred = jQuery.Callbacks( "once memory" ),

							// Status-dependent
							? ( callbackContext ) : ( requestContext = jQuery( callbackContext ) )
								jQuery( callbackContext ) :
								jQuery.event,

							// Deferreds
							deferred =
								collection
								globalEventContext = s.context &&
								( callbackContext.nodeType || callbackContext.jquery )
								jQuery.Deferred(),
								responseHeadersString,
								responseHeaders,

							// timeout handle
							timeoutTimer,

							// Options
							options || {};

							// URL without anti-cache param
							cacheURL,

							// Response
							"object" ) {
							options = url;
							url = undefined;
					}

						// Force options to be an object
							options =
							method
	ajax: function( url, options ) {

						// If url is an object, simulate pre-1.5 signature
							if ( typeof url ===
							addToPrefiltersOrTransports( prefilters ),
	ajaxTransport: addToPrefiltersOrTransports( transports ),

	// Main:
							function( url, options ) {

							// Apply converter (if not an
								typeof conv !== "function" ) {

							// Convert anything to text
								text: String,unifyText/Text to html (true = no transformation)\bhtml\b/\btext html\b/; true,unifyText/\btext html\b/; Evaluate text as a json expressionunifyText/\btext json\b/; JSON.parse,unifyText/\btext xml\b/; jQuery.parseXMLunifyText; unifyText/\btext xml\b/; jQuery.parseXMLunifyText; For options that

							// Shouldn't be deep extended:unifyText/; you can add your own custom options here if

							// And when you create one that

							// Shouldn't be deep extended (see ajaxExtend)unifyText/; if not already exists

							// Create a full fledged settings object into targetunifyText/; with both ajaxSettings and settings

							fields.unifyText/; If target is omitted, writes into ajaxSettings.unifyText/; setup: function( target, settings ) {

							// Building a settings objectunifyText/; ajaxExtend: ajaxExtend( target, jQuery.ajaxSettings ),

							settings )
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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null
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"jsonp" or we have a parameter to set

```javascript
if ( jsonProp || s.dataTypes[0] === "jsonp" ) {
    // Get callback name, remembering preexisting value associated with it
    sjsonpCallback = isFunction(sjsonpCallback) ?
        sjsonpCallback() :
        sjsonpCallback;

    // Insert callback into url or form data
    if ( jsonProp ) {
        s[jsonProp] = s[jsonProp].replace(rjsonp, "$1" + callbackName);
    } else if (sjsonp !== false) {
        s.url += (rquery.test(s.url) ? "&" : "?") + sjsonp + "=" + callbackName;
    }

    // Use data converter to retrieve json after script execution
    s.converters["script json"] = function() {
        if ( !responseContainer ) {
            jQuery.error(callbackName + " was not called");
        }
        return responseContainer[0];
    }

    // Install callback
    window[callbackName] = overwritten;
    window[callbackName] = function() {
        responseContainer = arguments;
        overwritten( responseContainer[0] );
    };

    // Clean-up function (fires after
    // converters)
    overwritten = window[callbackName];
    window[callbackName] = undefined;
    responseContainer = overwritten = null;
}
```

// Support: Safari 8 only\n// In Safari 8 documents created via
document.implementation.createHTMLDocument\n// collapse sibling forms: the second one becomes a child of
the first one.\n// Because of that, this security measure has to be disabled in Safari 8.\n
https://bugs.webkit.org/show_bug.cgi?id=137337

// Argument "data"
// should be string of html
// context (optional): If specified, the fragment will be created in this context,
defaults
to document\n// keepScripts (optional): If true, will include scripts passed in the html string\njQuery.parseHTML = function( data, context, keepScripts ) {
    if ( typeof data !== "string" ) {
        return [];
    }
    if ( typeof context === "boolean" ) {
        keepScripts = context;
        context = false;
    }

    var base, parsed, scripts;

    if (!context) {
        // Stop scripts or inline event handlers from being executed immediately\n        // by using
        if ( support.createHTMLDocument ) {
            context = document.implementation.createHTMLDocument("" );
            base = context.createElement("base");
            base.href = document.location.href;
            context.head.appendChild(base);
        } else {
            context = document;
        }
    }

    var parsed = buildFragment( [ data ], context, scripts );

    if ( scripts && scripts.length ) {
        jQuery(scripts).remove();
    }

    return jQuery.merge([], parsed.childNodes);
};

/**
 * Load a url into a page
 */
jQuery.fn.load = function( url, params, callback ) {
    var selector, type, response,
        self = this,
        off = url.indexOf( " " );

    if ( off > -1 ) {
        selector = stripAndCollapse( url.slice( off ) );
        url = url.slice( 0, off );
    }

    // If it's a function
    if ( isFunction(params) ) {
        callback = params;
        params = undefined;
    // Otherwise, build a param string
    } else if ( typeof params === "object" ) {
        type = "POST";
    } else if ( sjsonp !== false ) {
        s.url += (rquery.test(s.url) ? "&" : "?") + sjsonp + "=" + callbackName;
    }

    // If we have elements to modify, make the request
    if ( self.length > 0 ) {
        jQuery.ajax( {
            url: url,
            // If "type" variable is undefined, then "GET" method will be
            // used.\n            // Make value of this field explicit since
            // user can override it through ajaxSetup method\n            type: type || "GET",
            data: params
        } ).done( function( responseText ) {
            self.html( selector ?
                // If a selector was specified, locate the right elements in a
dummy div\n                // Exclude scripts to avoid IE 'Permission Denied' errors
                jQuery(selector)("<div>" ).append( jQuery.parseHTML( responseText ) ).find( selector ) :
                // Use data converter to retrieve json after script execution
                jQuery.parseHTML( responseText ).context
```
For the element inside the iframe without offsetParent, this method will return `null/` `documentElement` of the parent window/`/` 2) For the hidden or detached element`/` `null/` but those exceptions were never presented as a real life use-cases`/` and might be considered as more preferable results.`/` This logic, however, is not guaranteed and can change at any point in the future/offsetParent: `this.offsetHeight` method function() { `scrollTop` `offsetParent = this.offsetHeight;` `window/` 2) For the hidden or detached element`/` `null/` else if (`elem.nodeType===9`) `{ `scrollTop = elem.defaultView.scrollTop;` `if (val) { `scrollTop = win.scrollTop;` `else if (elem.nodeType==9) { `scrollTop = elem.scrollTop;` `return scrollTop || documentElement;` `}` `}`}

// Create scrollLeft and scrollTop methods
`jQuery.each` ( `scrollTop: 
"pageXOffset", scrollTop: 
"pageYOffset", 
function ( method, prop ) `scrollTop = `scrollTop`, 
function( val ) `scrollTop` = `scrollTop`, 
method, val ) `scrollTop` = `scrollTop` || documentElement;`}

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`jQuery.each` ( `scrollTop: 
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function( val ) `scrollTop` = `scrollTop`, 
method, val ) `scrollTop` = `scrollTop` || documentElement;`}

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function ( method, prop ) `scrollTop = `scrollTop`, 
function( val ) `scrollTop` = `scrollTop`, 
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`jQuery.each` ( `scrollTop: 
"pageXOffset", scrollTop: 
"pageY Offset", 
function ( method, prop ) `scrollTop = `scrollTop`, 
function( val ) `scrollTop` = `scrollTop`, 
method, val ) `scrollTop` = `scrollTop` || documentElement;`}
@param {*} value The value to inspect.
* @returns {Function} Returns cast function.
*/
function castFunction(value) {
  return typeof value == 'function' ? value : identity;
}

module.exports = castFunction;

/**
 * Checks if `value` is object-like. A value is object-like if it's not `null` & has a
 * `typeof` result of `object`.
 *  @param {*} value The value to inspect.
 *  @returns {Boolean} Returns true if `value` is object-like, else false.
 */
function isObjectLike(value) {
  return value != null && typeof value == 'object';
}

module.exports = isObjectLike;
i) args.push(arguments[i++]);
    queue[++counter] = function () {
      // eslint-disable-next-line no-new-func
      invoke(typeof fn == 'function' ? fn : Function(fn), args);
      defer(counter);
    };
    defer(counter);
    return counter;
  };

clearTask = function clearImmediate(id) {
  delete queue[id];
};

// Node.js 0.8-
if (require('./_cof')(process) == 'process') {
  defer = function (id) {
    process.nextTick(ctx(run, id, 1));
  };
  // Sphere (JS game engine)
  Dispatch && function (id) {
    invoke(typeof fn == 'function' ? fn : Function(fn), args);
  };
}

// Browsers with MessageChannel, includes WebWorkers
if (MessageChannel) {
  channel = new MessageChannel();
  port = channel.port1;
  channel.port1.onmessage = listener;
  defer = ctx(port.postMessage, port, 1);
  // Browsers with postMessage, skip WebWorkers
  // IE8 has postMessage, but it's sync & typeof its postMessage is 'object'
  else if (global.addEventListener && typeof postMessage == 'function' && !global.importScripts) {
    defer = function (id) {
      global.postMessage(id + '', '*');
    };

    global.addEventListener('message', listener, false);
  } else if (ONREADYSTATECHANGE in cel('script')) {
    defer = function (id) {
      html.appendChild(cel('script'))[ONREADYSTATECHANGE] = function () {
        html.removeChild(this);
        run.call(id);
      };
      // Rest old browsers
      else {
        defer = function (id) {
          setTimeout(ctx(run, id, 1), 0);
        };
      }
  }
}

module.exports = {
  set: setTask,
  clear: clearTask
};

/**
 * Checks if `value` is the
 * [language type](http://www.ecma-international.org/ecma-262/7.0/#sec-ecmascript-language-types)
 * 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;

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2;

/** `Object#toString` 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]';

var arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]';

/** Used to convert symbols to primitives and strings. */
var symbolProto = Symbol ? Symbol.prototype : undefined,
    symbolValueOf = symbolProto ? symbolProto.valueOf : undefined;

/**
 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`. This function supports comparing objects with
 * the same `toStringTag` only.
 *
 * @private
 * @param {Object} object The
 * @param {Object} other The other object to compare.
 * @param {string} tag The `toStringTag` of the objects 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 equalByTag(object, other, tag, bitmask, customizer, equalFunc, stack) {
  switch (tag) {
    case arrayBufferTag:
      if ((object.byteLength != other.byteLength) ||
          (!equalFunc(new Uint8Array(object), new Uint8Array(other))) {
        return false;
      } else {
        return true;
      }

    case dataViewTag:
      return equalArrays(new Uint8Array(object), new Uint8Array(other));

    case mapTag:
      var convert = mapToArray;
      stack = convert;
bitmask & COMPARE_PARTIAL_FLAG;

convert || (convert = setToArray);

if (object.size != other.size &
& !isPartial) {
  return false;
}

// Assume cyclic values are equal.
var stacked = stack.get(object);

if (stacked) {
  return stacked == other;
}

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;

/**
 * Removes 'key' and its value from the hash.
 *
 * @private
 * @name delete
 * @memberOf Hash
 * @param {Object} hash The hash to modify.
 * @param {string} key The key of the value to remove.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */
function hashDelete(key) {
  var result = this.has(key) && delete this.__data__[key];
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = hashDelete;

// call something on iterator step with safe closing on error
var anObject = require('./_an-object');
module.exports = function (iterator, fn, value, entries) {
  try {
    return entries ? fn(anObject(value)[0], value[1]) : fn(value);
  // 7.4.6 IteratorClose(iterator, completion)
  } catch (e) {
    var ret = iterator['return'];
    if (ret !== undefined) anObject(ret.call(iterator));
    throw e;
  }
};

var compareAscending = require('./_compareAscending');

/**
 * Used by `_.orderBy` to compare multiple properties of a value to another
 * and stable sort them.
 *
 * If `orders` is unspecified, all values are sorted in ascending order.
 *
 * @private
 * @param {Array|string} key The key of the property to match.
 * @returns {Number} Returns the new sort position of `value` from `object`.
 */
function matchesAscending(key) {
  return compareAscending(key, 0);  // Convert key to an array.
}

module.exports = matchesAscending;

/* Built-in method references that are verified to be native. */
var Symbol = getNative(window, 'Symbol');

module.exports = Symbol;

"use strong";

module.exports = require("./is-implemented")
	? Object.assign
	: require("./shim");

/**
 * 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 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;

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object to compare.

* @param {boolean[]|string[]} orders The order to sort by for each property.
* @returns {number} Returns the sort order indicator for `object`.
// If `separator` is not a regex, use native `split`.
if (isRegExp(separator)) return _split.call(string, separator, limit);
var output = [];
var flags = (separator.ignoreCase ? 'i' : '') + (separator.multiline ? 'm' : '') + (separator.unicode ? 'u' : '') + (separator.sticky ? 'y' : '')
var lastLastIndex = 0;
var splitLimit = limit === undefined ? 4294967295 : limit >>> 0;
var separatorCopy = new RegExp(separator.source, flags + 'g');
var separator2, match, lastIndex, lastLength, i;

// Fix browsers whose `exec` methods don't consistently return `undefined` for NPCG
if ((separatorCopy = new RegExp('^' + separatorCopy.source + '$(?!\\s)', flags + 'g')).lastIndex === match.index) separatorCopy.lastIndex++; // Avoid an infinite loop

if (separatorCopy[LAST_INDEX] === match.index) separatorCopy[LAST_INDEX]++; // Avoid an infinite loop

while (match = separatorCopy.exec(string)) {
  lastIndex = match.index + match[0][LENGTH];
  if (lastIndex > lastLastIndex) {
    output.push(string.slice(lastLastIndex, match.index));
    if (match[LAST_INDEX] === match.index) separatorCopy[LAST_INDEX]++; // Avoid an infinite loop
    } else output.push(string.slice(lastIndex, match.index));
  return output.slice(0, splitLimit);
}

function listCacheClear() {
  this.__data__ = [];
  this.size = 0;
}

listCacheClear.prototype = {get: function get(key) {
  return this.__data__.hasOwnProperty(key) ? this.__data__[key] : undefined;
}, has: function has(key) {
  return this.__data__.hasOwnProperty(key);
}, remove: function remove(key) {
  delete this.__data__[key];
}

module.exports = listCacheClear;

/**
 * Used for built-in method references.
 */
var objectProto = Object.prototype;

/**
 * Returns the `toStringTag` of `value`.
 */
var nativeObjectToString = objectProto.toString;

/**
 * Converts `value` to a string using `Object.prototype.toString`.
 */
function objectToString(value) {
  return nativeObjectToString.call(value);
}

module.exports = objectToString;

// Create object with fake `null` prototype: use iframe Object with cleared prototype
var global = require('./_global');
var hide = require('./_hide');
var has = require('./_has');
var src = require('./_uid')('src');
var to_string = require('object-to-string');

require('./_core').inspectSource = function inspectSource(it) {
  return to_string.call(it);
};

module.exports = function objectTostring(value) {
  return to_string.call(value);
};

var nativeObjectTostring = value => to_string.call(value);

function to_string(value) {
  return typeof value == 'function' && this[PROTOTYPE] || objectToString(value);
}

var ModuleExports = require('./_module-exports');

var objectTostring = function objectTostring(value) {
  return objectToString(value);
}
getSymbols();
"// check on default Array iterator
var Iterators = require('./_iterators');

var ITERATOR = require('./_wks')('iterator');

var ArrayProto = Array.prototype;

module.exports = function (it) {
  return it !== undefined && (Iterators.Array === it || ArrayProto[ITERATOR] === it);
};

var isFunction = require('./isFunction'),
    isMasked = require('./_isMasked'),
    isObject = require('./isObject'),
    toSource = require('./_toSource');

/**
 * Used to match `RegExp`
 * 
 * @private
 * @param {*} value
 * @returns {boolean} Returns `true` if `value` is a native function,
 * else `false`.
 */

function baseIsNative(value) {
  if (!isObject(value) || isMasked(value)) {
    return false;
  }
  var pattern = isFunction(value) ? reIsNative : reIsHostCtor;
  return pattern.test(toSource(value));
}

module.exports = baseIsNative;

/**
 * Gets the value at `key` of `object`.
 *
 * @private
 * @param {Object} object
 * @param {string} key
 * @returns {*} Returns the property value.
 */

function getValue(object, key) {
  return object == null ? undefined : object[key];
}

module.exports = getValue;

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
 * @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 isStrictComparable = require('./_isStrictComparable'),
    keys = require('./keys');

/**
 *
 * Gets the property names, values, and compare flags of `object`.
 *
 * @private
 * @param {Object} object
 * @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;
```javascript
function createCommonjsModule(fn, module) {
    return module = { exports: {} }, fn(module, module.exports), module.exports;
}

var performanceNow = createCommonjsModule(function(module) {
    if (typeof performance !== "undefined") {
        module.exports = function() {
            return performance.now();
        };
    } else if (process && process.hrtime) {
        module.exports = function() {
            return (getNanoSeconds() - moduleLoadTime) / 1e6;
        };
        getNanoSeconds = function() {
            var hr = process.hrtime();
            return hr[0] * 1e9 + hr[1];
        };
        moduleLoadTime = getNanoSeconds();
        loadTime = Date.now();
        upTime = process.uptime() * 1e9;
        moduleLoadTime = loadTime - upTime;
    } else if (Date.now) {
        module.exports = function() {
            return Date.now() - loadTime;
        };
        loadTime = Date.now();
    } else {
        module.exports = function() {
            return new Date().getTime() - loadTime;
        };
        loadTime = new Date().getTime();
    }
    return module.exports;

    var root = typeof window === 'undefined' ? commonjsGlobal : window,
        vendors = ['moz', 'webkit'],
        suffix = 'AnimationFrame',
        raf = root['request' + suffix],
        caf = root['cancel' + suffix] || root['cancelRequest' + suffix];

    for(var i = 0; !raf && i < vendors.length; i++) {
        raf = root[vendors[i] + 'Request' + suffix],
        caf = root[vendors[i] + 'Cancel' + suffix] || root[vendors[i] + 'CancelRequest' + suffix];
    }

    // Some versions of FF have rAF but not cAF
    if(!raf || !caf) {
        var last = 0
            , id = 0
            , queue = []
            , frameDuration = 1000 / 60;

        raf = function(callback) {
            if(queue.length === 0) {
                var _now = performanceNow()
                    , next = Math.max(0, frameDuration - (_now - last));
                last = next + _now;
                queue.push({
                    handle: id++,
                    callback: callback,
                    cancelled: false
                });
                return id
            }

            var cp = queue.slice(0);
            queue.length = 0;
            for(var i = 0; i < cp.length; i++) {
                if(cp[i].handle === id)
                    continue;
                if(cp[i].cancelled)
                    continue;
                try{
                    cp[i].callback(last);
                } catch(e) {
                    setTimeout(function() { throw e }, 0);
                }
            }
        }

        caf = function(handle) {
            for(var i = 0; i < queue.length; i++) {
                if(queue[i].handle === handle)
                    queue[i].cancelled = true;
            }
        }
    }

    var raf_1 = function(fn) {
        return raf.call(root, fn)
    };
    var cancel = function() {
        caf.apply(root, arguments);
    };
    polyfill = function(object) {
        if (!object) {
            object = root;
        }
        object.requestAnimationFrame = raf;
        object.cancelAnimationFrame = caf;
        object.requestAnimationFrame = raf;
        object.cancelAnimationFrame = caf;
        object.requestAnimationFrame = raf;
        object.cancelAnimationFrame = caf;
    };

    function checkActions(states) {
        var direction = states.currentScrollY >= states.lastScrollY ? 'down' : 'up';
        var distanceScrolled = Math.abs(states.currentScrollY - states.lastScrollY);
        if (direction === 'down' && distanceScrolled > states.downTolerance) {
            action = 'unpin';
            states.unpinned = true;
            states.currentScrollY = states.lastScrollY = states.unpinned = false;
        } else if (direction === 'up' && distanceScrolled > states.upTolerance) {
            action = 'pin';
        }
        return action;
    }

    function supports3d() {
        var div = document.createElement('div');
        var ret = false;
        var properties = ['perspectiveProperty', 'WebkitPerspective'];
        for (var i = properties.length - 1; i >= 0; i--) {
            if (!properties[i].apply(document.createElement('style'))) {
                ret = false;
                break;
            }
        }
        if (ret) {
            var st = document.createElement('style');
            st.textContent = '@media (transform-3d), (-webkit-transform-3d) {
                #modernizr { width: 0; height: 0; margin: 0; padding: 0; border: 0; }
            };
            document.getElementsByTagName('head')[0].appendChild(st);
        }
    }
    supports3d();
```
```javascript
/**
 * Used to detect maps, sets, and weakmaps.
 */
var DataViewTag = '[object DataView]';

/**
 * Gets the `toStringTag` of `value`. *
 * @value {Any} 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) {
  getTag = function(value) {
    var result = baseGetTag(value);
    var Ctor = result == objectTag ? value.constructor :
        undefined;
    var constructor = (Ctor ? toSource(Ctor) : '');

    if (constructor) {
      switch (constructor) {
        case DataViewTag: return DataViewTag;
        case MapTag: return MapTag;
        case PromiseTag: return PromiseTag;
        case SetTag: return SetTag;
        case WeakMapTag: return WeakMapTag;
      }
    }
    return result;
  };
}

module.exports = getTag;
```

---

```javascript
// 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);
};
```

---

```javascript
// 19.1.2.14 Object.keys
var toObject = require('./_to-object');
var $keys = require('./_object-keys');

require('./_object-sap')('keys', function () {
  return function keys(it) {
    return $keys(toObject(it));
  };
});
```

---

```javascript
var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

/**
 * The base implementation of `_.forEach` without support for iteratee shorthands.
 *
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);

module.exports = baseEach;
```

---

```javascript
// @@match logic
require('./_fix-re-wks')('match', 1, function (defined, MATCH, $match) {
  // 21.1.3.11 String.prototype.match(regexp)
  return [function match(regexp) {
    'use strict';
    var O = defined(this);
    var fn = regexp == undefined ? undefined :
        regexp[REGEXP];
    return fn !== undefined ? fn.call(regexp, O) : new RegExp(regexp)[MATCH](String(O));
  }, $match];
});
```

---

```javascript
var nativeCreate = require('./_nativeCreate');

/**
 * Removes all key-value entries from the hash.
 *
 * @private
 * @name clear
 * @memberOf Hash
 */
function hashClear() {
  this.__data__ = nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
}

module.exports = hashClear;
```

---

```javascript
var ctx = require('./_ctx');
var call = require('./_iter-call');
var isArrayIter = require('./_is-array-iter');
var anObject = require('./_an-object');
var toLength = require('./_to-length');
var getIterFn = require('./core.get-iterator-method');

exports.nextTick = function nextTick(fn) {
  setTimeout(fn, 0);
};

exports.platform = exports.arch =
exports.execPath = exports.title = 'browser';
exports.pid = 1;
exports.browser = true;
exports.env = {};
exports.argv = [];

exports.binding = function (name) {
  throw new Error('No such module. (Possibly not yet loaded)')
};

(function () {
  var cwd = '/';
  var path;
  exports.cwd = function () { return cwd };
  exports.chdir = function (dir) {
    if (!path)
        path = require('path');
    cwd = path.resolve(dir, cwd);
  };
})();
```

---

```javascript
// 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);
};
```

---

```javascript
module.exports = function (bitmap, value) {
  return {
    enumerable: !(bitmap & 1),
    configurable: !(bitmap & 2),
    writable: !(bitmap & 4),
    value: value
  };
};
```

---

```javascript
var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

/**
 * The base implementation of `_.forEach` without support for iteratee shorthands.
 *
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);
```

---

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// 7.1.4 ToInteger
var ceil = Math.ceil;
var floor = Math.floor;
module.exports = function (it) {
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 *
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 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);
```

---

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 *
 * @private
 * @name clear
 * @memberOf Hash
 */
function hashClear() {
  this.__data__ = nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
}

module.exports = hashClear;
```

---

```javascript
var nativeCreate = require('./_nativeCreate');

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  // 21.1.3.11 String.prototype.match(regexp)
  return [function match(regexp) {
    'use strict';
    var O = defined(this);
    var fn = regexp == undefined ? undefined :
        regexp[REGEXP];
    return fn !== undefined ? fn.call(regexp, O) : new RegExp(regexp)[MATCH](String(O));
  }, $match];
});
```

---

```javascript
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 *
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---

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 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);
```

---

```javascript
// 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);
};
```

---

```javascript
module.exports = function (bitmap, value) {
  return {
    enumerable: !(bitmap & 1),
    configurable: !(bitmap & 2),
    writable: !(bitmap & 4),
    value: value
  };
};
```

---

```javascript
var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

/**
 * The base implementation of `_.forEach` without support for iteratee shorthands.
 *
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);
```

---

```javascript
var nativeCreate = require('./_nativeCreate');

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 * Removes all key-value entries from the hash.
 *
 * @private
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 * @memberOf Hash
 */
function hashClear() {
  this.__data__ = nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
}

module.exports = hashClear;
```

---

```javascript
var baseForOwn = require('./_baseForOwn'),
    createBaseEach = require('./_createBaseEach');

/**
 * The base implementation of `_.forEach` without support for iteratee shorthands.
 *
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 */
var baseEach = createBaseEach(baseForOwn);
```

---

```javascript
// 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);
};
```
```javascript
entries);

  var baseFlatten = require('./_baseFlatten');

  function flatten(array) {
    var length = array == null ? 0 : array.length;
    return length <= -1 ? [] : baseFlatten(array, 1);
  }

  module.exports = flatten;

  // extracted by mini-css-extract-plugin

  /**
   * 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 array of results.
   */
  function baseTimes(n, iteratee) {
    var index = -1,
        result = Array(n);

    while (++index < n) {
      result[index] = iteratee(index);
    }
    return result;
  }

  module.exports = baseTimes;

  /*!
   * vue-social-sharing v2.3.3 
   * (c) 2017 nicolasbeauvais
   * Released under the MIT License.
   */
  'use strict';

  function _interopDefault (ex) { return (ex && (typeof ex === 'object') && 'default' in ex) ? ex['default'] : ex; }

  var Vue = _interopDefault(require('vue'));

  var SocialSharingNetwork = {
    functional: true,
    props: {
      network: {
        type: String,
        default: ''
      }
    },
    render: function (createElement, context) {
      var network = context.parent._data.baseNetworks[context.props.network];

      if (!network) {
        console.warn("Network " + (context.props.network) + " does not exist");
      }

      return createElement(context.parent.networkTag, {
        staticClass: context.data.staticClass || null,
        staticStyle: context.data.staticStyle || null,
        class: context.data.class || null,
        style: context.data.style || null,
        attrs: {
          id: context.data.attrs.id || null,
          'data-link': network.type === 'popup'
            ? '#share-' + context.props.network
            : context.parent.createSharingUrl(context.props.network),
          'data-action': network.type === 'popup' ? null : network.action
        },
        on: {
          click: network.type === 'popup' ? function () {
            context.parent.share(context.props.network);
          } : function () {
            context.parent.touch(context.props.network);
          }
        }
      }, context.children);
    }

  }; // email
  var email = {
    "sharer": "mailto:?subject=@title&body=@url%0D%0A%0D%0A@description","type":"direct"
  };

  var facebook = {
    "sharer": "https://www.facebook.com/sharer/sharer.php?u=@url&title=@title&description=@description&quote=@quote","type":"popup","action":null
  };

  var googleplus = {
    "sharer": "https://plus.google.com/share?url=@url","type":"popup","line":null
  };

  var linkedin = {
    "sharer": "https://www.linkedin.com/shareArticle?mini=true&url=@url&title=@title&summary=@description","type":"popup","action":null
  };

  var odnoklassniki = {
    "sharer": "https://connect.ok.ru/dk?st.cmd=WidgetSharePreview&st.shareUrl=@url&st.comments=@description","type":"popup","action":null
  };

  var pinterest = {
    "sharer": "https://pinterest.com/pin/create/button/?url=@url&media=@media&description=@title","type":"popup","action":null
  };

  var reddit = {
    "sharer": "https://www.reddit.com/submit?url=@url&title=@title","type":"popup","action":null
  };

  var skype = {
    "sharer": "https://web.skype.com/share?url=description%0D%0A@url","type":"popup","action":null
  };

  var telegram = {
    "sharer": "https://t.me/share/url?url=@url&text=description","type":null,"action":null
  };

  var twitter = {
    "sharer": "https://twitter.com/intent/tweet?text=@title&url=@url&hashtags=@hashtags@twitteruser","type":null,"popup":null,"v":null,"direct":null,"action":null
  };

  var viber = {
    "sharer": "viber://forward?url=@url&text=description","type":null,"action":null
  };

  var vk = {
    "sharer": "https://vk.com/share.php?url=@url&title=@title&description=@description&image=@media&noparse=true","type":null,"popup":null,"action":null
  };

  var weibo = {
    "sharer": "http://service.weibo.com/share/share.php?url=@url&title=@title","type":null,"popup":null,"action":null
  };

  var whatsapp = {
    "sharer": "whatsapp://send?text=description%0D%0A@url","type":null,"action":null
  };
```
window.open(url, this.popup.window.close());// Force close (for Facebook)

var sms = { "sharer": { "sms::body:@url%20@description\n":"type:\n"direct\n" },

var BaseNetworks = {

var inBrowser = typeof window !== 'undefined';

var SocialSharing = {
  props: {
    url: { type: String, default: null },
    networks: {
      type: Object,
      default: function () {
          return {};
        }
    },
    networkTag: { type: String, default: 'span' }
  },
  methods: {
    share: function share (network) {
      this.openSharer(network, this.createSharingUrl(network));
    },
    touch: function touch (network) {
      window.open(this.createSharingUrl(network), '_self');
    },
    openSharer: function openSharer (network, url) {
      var this$1 = this;

      // If a popup window already exist it will be replaced.
      *
      * Opens sharer popup.
      * @param string url To share.
      * @param string network Social network key.
      * @var string
      */
      var popup = { 
        status: false,
        resizable: true,
        toolbar: false,
        menubar: false,
        scrollbars: false,
        location: false,
        directories: false,
        width: 626,
        height: 436,
        top: 0,
        left: 0,
      },
      window: undefined,
      interval: null
    }
  },

  networks: {
    type: String,
    default: '+
  },

  withCounts: {
    type: [String, Boolean],
    default: false,
  },

  googleKey: {
    type: String,
    default: undefined
  },

  withCounts: {
    type: [String, Boolean],
    default: false,
  },

  twitterUser: {
    type: String,
    default: ''
  },

  hashtags: {
    type: String,
    default: ''
  },

  description: {
    type: String,
    default: ''
  },

  title: {
    type: String,
    default: ''
  },

  socialtags: {
    type: String,
    default: ''
  },

  BaseNetworks: BaseNetworks,

  /**
   * Popup settings.
   * @param object
   */
  popup: {
    status: false,
    resizable: true,
    toolbar: false,
    menubar: false,
    scrollbars: false,
    location: false,
    directories: false,
    width: 626,
    height: 436,
    top: 0,
    left: 0,
  },
  window: undefined,
  interval: null
};
clearInterval(this$1.popup.interval);
this$1.popup.window = undefined;

this$1.$root.$emit('social_shares_close', network, this$1.url);
this$1.$emit('close', network, this$1.url);

this$1.popup.window = undefined;

this$1.$root.$emit('social_shares_close', network, this$1.url);

this$1.$emit('close', network, this$1.url);

}
      }, 500);
    }
  },

  /**
   * Merge base networks list with user's list
   * beforeMount: function
   */
  beforeMount: function
    this.baseNetworks = Vue.util.extend(this.baseNetworks, this.networks);
  },

  /**
   * Sets popup default dimensions.
   */
  mounted: function
    if (!inBrowser) {
      return;
    }

    /**
     * Center the popup on dual screens
     * http://stackoverflow.com/questions/4068373/center-a-popup-
     */
    var dualScreenLeft = $window.screenLeft !== undefined ? $window.screenLeft : screen.left;
    var dualScreenTop = $window.screenTop !== undefined ? $window.screenTop : (this.popup.left + (this.popup.width / 2)) + dualScreenLeft;
    var popupTop = (height / 2) - (this.popup.height / 2) + dualScreenTop;
    var height = $window.innerHeight ? $window.innerHeight : (document.documentElement.clientHeight ? document.documentElement.clientHeight : screen.height);

    this.popup.left = ((width / 2) - (this.popup.width / 2)) + dualScreenLeft;
    this.popup.top = ((height / 2) - (this.popup.height / 2)) + dualScreenTop;
  },

  /**
   * Set component aliases for buttons and links.
   */
  components: {
    'network': SocialSharingNetwork
  }
};

SocialSharing.version = '2.3.3';

SocialSharing.install = function (Vue) {
  Vue.component('social-sharing', SocialSharing);
};

if (typeof window !== 'undefined') {
  window.SocialSharing = SocialSharing;
}

module.exports = SocialSharing;
The base implementation of `_reduce` and `_reduceRight`, without support for iteratee shorthands, which iterates over `collection` using `eachFunc`.

```javascript
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;
```

The base implementation of `_flatten` with support for restricting flattening.

```javascript
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 (susceptible to call stack limits).
        baseFlatten(value, depth - 1, predicate, isStrict, result);
      } else {
        arrayPush(result, value);
      }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = baseFlatten;
```

The base implementation of `_extend` with support for restricting extension.

```javascript
function baseExtend(target, source) {
  if (target) {
    var keys = keys(source);
    for (var i = 0, length = keys.length; i < length; i++) {
      var key = keys[i];
      target[key] = source[key];
    }
  }
  return target;
}

module.exports = baseExtend;
```
```javascript
getMatchData(source);
if (matchData.length == 1 && &matchData[0][2]) {
  return matchesStrictComparable(matchData[0][0], matchData[0][1]);
}

module.exports = baseMatches;

var castPath = require('./_castPath'),
toKey = require('./_toKey');

/**
 * The base implementation of `_.get` without support for default values.
 * @param {Object} object The object to query.
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the resolved value.
 */
function baseGet(object, path) {
  path = castPath(path, object);

  var index = 0,
      length = path.length;

  while (object != null && index < length) {
    object = object[toKey(path[index++])];
  }
  return (index && index == length) ? object : undefined;
}

module.exports = baseGet;

/**
 * A specialized version of `_.every` 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 all elements pass the predicate check,
 *  else `false`.
 */
function arrayEvery(array, predicate) {
  var index = -1,
      length = array.length;

  while (++index < length) {
    if (!predicate(array[index], index, array)) {
      return false;
    }
  }
  return true;
}

module.exports = arrayEvery;

/**
 * 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`.
 */
var isArray = Array.isArray;

module.exports = isArray;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes `key` and its value from the list cache.
 *
 * @private
 * @name delete
 * @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;

var arrayMap = require('./_arrayMap'),
baseIteratee = require('./_baseIteratee'),
baseMap = require('./_baseMap'),
baseSortBy = require('./_baseSortBy'),
baseUnary = require('./_baseUnary'),
compareMultiple = require('./_compareMultiple'),
identity = require('./_identity');

/**
 * The base implementation of `_.orderBy` without param guards.
 * @private
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} iteratees The iteratees to sort by.
 * @param {string} orders The sort orders of `iteratees`.
 * @returns {Array} Returns the new sorted array.
 */
function baseOrderBy(collection, iteratees, orders) {
  var index = -1;
  iteratees = arrayMap(iteratees.length ? iteratees : [identity],
    baseUnary(baseIteratee));

  var result = baseMap(collection, function(value, key, index) {
    var criteria = arrayMap(iteratees, function(iteratee) {
      return iteratee(value);
    });
    return {'criteria': criteria, 'index': ++index, 'value': value};
  });

  return baseSortBy(result, function(object, other) {
    var compareMultiple = compareMultiple ?
      compareMultiple : identity
  });
}

module.exports = baseOrderBy;
```

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fn.call(it))) return val;
if (typeof (fn = it.valueOf) == 'function' && !isObject(val = fn.call(it))) return val;
if (typeof (fn = it.toString) == 'function' && !isObject(val = fn.call(it))) return val;
throw TypeError("Can't convert object to primitive value");
}
/**
 * A specialized version of `_.arrayReduce` for arrays without support for
 * `iteratee` shorthands.
 * @param {Array} array The array to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @param {*} [accumulator] The initial value.
 * @param {boolean} [initAccum] Specify using the first element of `array` as
 * the initial value.
 * @returns {*}
 *  Returns the accumulated value.
 */
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;
}

module.exports = arrayReduce;

'use strict';
Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fab';
var iconName = 'twitter';
var width = 512;
var height = 512;
var ligatures = [];
var unicode = 'f099';

exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ]};

exports.faTwitter = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;

var arrayEach = require('./_arrayEach'),
    baseEach = require('./_baseEach'),
    castFunction = require('./_castFunction'),
    isArray = require('./isArray');

/**
 * Iterates over elements of `collection` and invokes `iteratee` for each
 * element.
 * The iteratee is invoked with three arguments: (value, index|key, collection).
 * Iteratee functions may exit iteration early by explicitly returning `false`.
 * Note:** As with other `Collection` methods, objects with a `length` property are
 * treated like arrays. To avoid this behavior use `_.forIn` or `_.forOwn` for
 * object iteration.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @alias each
 * @category Collection
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} [iteratee=_.identity] The function invoked per iteration.
 * @returns {Array|Object} Returns `collection`.
 * @see _.forEachRight
 */
function forEach(collection, iteratee) {
  var func = isArray(collection) ?
    arrayEach : baseEach;
  return func(collection, castFunction(iteratee));
}

module.exports = forEach;

"value" is classified as a typed array.

```javascript
value

@static
@memberOf _
@since 3.0.0
@category Lang
*
@returns {boolean} Returns `true` if `value` is a typed array, else
false.


isTypedArray(new Uint8Array());

true


isTypedArray([]);

false


isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray)

module.exports = isTypedArray;
```
index < 0 ? max(index + length, 0) : min(index, length);

```
};
```

```
/**
 * A specialized version of `_.map` for arrays
 * without support for iteratee shorthands.
 *
 * @param {Array} array
 * @returns {Array} Returns the new mapped array.
 */
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;
}

module.exports = arrayMap;
```

```
var getNative = require('./_getNative'),
  root = require('./_root');

/* Built-in method references that are verified to be native. */
var Map = getNative(root, 'Map');

module.exports = Map;
```

```
module.exports = function (exec) {
  try {
    return !!exec();
  } catch (e) {
    return true;
  }
};
```

```
var nativeCreate = require('./_nativeCreate');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Checks if a hash value for `key` exists.
 *
 * @private
 * @name has
 * @memberOf Hash
 * @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;
```

```
(function (global, factory) {
  typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports, require('@fortawesome/fontawesome')) :
    typeof define === 'function' && define.amd ? define(['exports', '@fortawesome/fontawesome'], factory) :
    (factory((global['vue-fontawesome'] = {}),global.FontAwesome));
}(this, (function (exports,fontawesome) { 'use strict';

fontawesome = fontawesome && fontawesome.hasOwnProperty('default') ? fontawesome['default'] : fontawesome;


function createCommonjsModule(fn, module) {
  return module = { exports: {} }, fn(module, module.exports), module.exports;
}

var humps = createCommonjsModule(function (module)

```c
// =========
// = humps =
// =========
// Underscore-to-camelCase converter (and vice versa)
// for strings and object keys

// humps is copyright © 2012+ Dom Christie
// Released under the MIT license.

(function(global) {

  var _processKeys = function(convert, obj, options) {
    if(!_isObject(obj) || _isDate(obj) || _isRegExp(obj) || _isBoolean(obj) || _isFunction(obj)) {
      return obj;
    }

    var output,
        i = 0,
        l = 0;

    if(_isArray(obj)) {
      output = [];
      for(l=obj.length; i<l; i++) {
        output.push(_processKeys(convert, obj[i], options));
      }
    }
    else {
      output = {};
      for(var key in obj) {
        if(Object.prototype.hasOwnProperty.call(obj, key)) {
          output[convert(key, options)] = _processKeys(convert, obj[key], options);
        }
      }
    }
    return output;
  };

  // String conversion methods

  var separateWords = function(string, options) {
    var options = options || {};
    var separator = options.separator || '_';
    var split = options.split || /[\-_\s]+/;

    return string.replace(split, function(match) {
      return separator + match;
    });
  };

  var camelize = function(string) {
    if (_isNumerical(string)) {
      return string;
    }
    string = string.replace(/\[A-Z\]/g, function(chr) {
      return chr.toLowerCase();
    });
    return string;
  };

  var pascalize = function(string) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toUpperCase() + camelized.substr(1);
  };

  var decamelize = function(string, options) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toLowerCase() + camelized.substr(1);
  }

  // Utilities

  taken from Underscore.js

  var toString = Object.prototype.toString;

  var _isArray = function(obj) {
    return toString.call(obj) == '[object Array]';
  };

  var _isBoolean = function(obj) {
    return toString.call(obj) == '[object Boolean]';
  };

  var _isDate = function(obj) {
    return toString.call(obj) == '[object Date]';
  };

  var _isFunction = function(obj) {
    return typeof(obj) === 'function';
  };

  var _isNumber = function(obj) {
    return _isNumerical(obj);
  };

  var _isObject = function(obj) {
    return obj === Object(obj);
  };

  var _isRegExp = function(obj) {
    return toString.call(obj) == '[object RegExp]';
  };

  var _isString = function(obj) {
    return _isNumerical(obj);
  };

  var _isUndefined = function(obj) {
    return obj === void 0;
  };

  // String conversion methods

  var separateWords = function(string, options) {
    var options = options || {};
    var separator = options.separator || '_';
    var split = options.split || /[\-_\s]+/;

    return string.replace(split, function(match) {
      return separator + match;
    });
  };

  var camelize = function(string) {
    if (_isNumerical(string)) {
      return string;
    }
    string = string.replace(/\[A-Z\]/g, function(chr) {
      return chr.toLowerCase();
    });
    return string;
  };

  var pascalize = function(string) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toUpperCase() + camelized.substr(1);
  };

  var decamelize = function(string, options) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toLowerCase() + camelized.substr(1);
  }

  // Utilities

  // Taken from Underscore.js

  var toString = Object.prototype.toString;

  var _isArray = function(obj) {
    return toString.call(obj) == '[object Array]';
  };

  var _isBoolean = function(obj) {
    return toString.call(obj) == '[object Boolean]';
  };

  var _isDate = function(obj) {
    return toString.call(obj) == '[object Date]';
  };

  var _isFunction = function(obj) {
    return typeof(obj) === 'function';
  };

  var _isObject = function(obj) {
    return obj === Object(obj);
  };

  var _isRegExp = function(obj) {
    return toString.call(obj) == '[object RegExp]';
  };

  var _isString = function(obj) {
    return _isNumerical(obj);
  };

  var _isUndefined = function(obj) {
    return obj === void 0;
  };

  // String conversion methods

  var separateWords = function(string, options) {
    var options = options || {};
    var separator = options.separator || '_';
    var split = options.split || /[\-_\s]+/;

    return string.replace(split, function(match) {
      return separator + match;
    });
  };

  var camelize = function(string) {
    if (_isNumerical(string)) {
      return string;
    }
    string = string.replace(/\[A-Z\]/g, function(chr) {
      return chr.toLowerCase();
    });
    return string;
  };

  var pascalize = function(string) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toUpperCase() + camelized.substr(1);
  };

  var decamelize = function(string, options) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toLowerCase() + camelized.substr(1);
  }
```

```c

(function(global) {

  var _processKeys = function(convert, obj, options) {
    if(!_isObject(obj) ||
        _isDate(obj) || _isRegExp(obj) ||
        _isBoolean(obj) || _isFunction(obj)) {
      return obj;
    }

    var output, i = 0, l = 0;

    if(_isArray(obj)) {
      output = [];
      for(l=obj.length; i<l; i++) {
        output.push(_processKeys(convert, obj[i], options));
      }
    }
    else {
      output = {};
      for(var key in obj) {
        if(Object.prototype.hasOwnProperty.call(obj, key)) {
          output[convert(key, options)] = _processKeys(convert, obj[key], options);
        }
      }
    }
    return output;
  };

  // String conversion methods

  var separateWords = function(string, options) {
    var options = options || {};
    var separator = options.separator || '_';
    var split = options.split || /[\-_\s]+/;

    return string.replace(split, function(match) {
      return separator + match;
    });
  };

  var camelize = function(string) {
    if (_isNumerical(string)) {
      return string;
    }
    string = string.replace(/\[A-Z\]/g, function(chr) {
      return chr.toLowerCase();
    });
    return string;
  };

  var pascalize = function(string) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toUpperCase() + camelized.substr(1);
  };

  var decamelize = function(string, options) {
    var camelized = camelize(string);
    return camelized.substr(0, 1).toLowerCase() + camelized.substr(1);
  }
```
camelize,
camelizeKeys: function(object, options) {
  return this.camelizeKeys.apply(this, arguments);
},
decamelizeKeys: function(object, options) {
  return this.decamelizeKeys.apply(this, arguments);
},
pascalizeKeys: function(object, options) {
  return this.pascalizeKeys.apply(this, arguments);
},
depascalizeKeys: function() {
  return this.depascalizeKeys.apply(this, arguments);
},
function(object) {
  return new Promise((resolve, reject) => { resolve(value); });
},
function(value) {
  return objectWithoutProperties(value, keys);
},
function(style) {
  return styleToObject(style);
},
function(cls) {
  return classToObject(cls);
},
function() {
  return combineClassObjects();
}
});

var AsyncGenerator = function(gen) {
  var front, back;
  function send(key, arg) {
    return new Promise((resolve, reject) => {
      var request = {
        key: key,
        arg: arg,
        resolve:
          resolve,
          reject: reject,
        next: null
      }
      ;
      if (back)
        back = back.next = request;
      else
        front = back = request;
      resume(key, arg);
    });
  }

  function resume(key, arg) {
    try {
      var result = gen[key](arg);
      var done = result.done;
      if (!done)
        return Promise.resolve({
          value: result.value,
          done: true
        });
      break;
    } finally {
      var value = result.value;
    }
    if (done)
      break;
    var value
  }

  function settle(type, value) {
    switch (type) {
      case "return":
        front.resolve({
          value: value,
          done: true
        });
        break;
      case "throw":
        front.reject(value);
        break;
      default:
        front.resolve({
          value: value,
          done: false
        });
        break;
    }
  }

  this._invoke = send;

  if (typeof gen.return !== "function") {
    this.return = undefined;
  }

  return {
    wrap: function(fn) {
      return function() {
        return new AsyncGenerator(fn.apply(this, arguments));
      };
    },
    await: function(value) {
      return new AwaitValue(value);
    }
  };
};

var classes = [
  Object
];

var keep = function(keep) {
  if (typeof Symbol === "function" && Symbol.withoutProperties)
    return function(obj, properties) {
      return Object.seal(obj, properties);
    };
  else
    return function(obj) {
      return Object.seal(obj);
    };
};

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;
};
(!bitmask & COMPARE_PARTIAL_FLAG)) {
  var objIsWrapped = objIsObj && hasOwnProperty.call(object, '__wrapped__');
  var othIsWrapped = othIsObj && hasOwnProperty.call(other, '__wrapped__');
  if (objIsWrapped || othIsWrapped) {
    var objUnwrapped = objIsWrapped ? object : other;
    var othUnwrapped = othIsWrapped ? other : object;
    var stack || (stack = new Stack);
    return equalFunc(objUnwrapped, othUnwrapped, bitmask, customizer, stack);
  }
  if (!isSameTag) {
    return false;
  }
  var stack = (stack = new Stack);
  return equalObjects(object, other, bitmask, customizer, equalFunc, stack);
}

module.exports = baseIsEqualDeep;

"use strict";

module.exports = require('./is-implemented')() ? Object.keys : require('./shim');

var Hash = require('./_Hash'),
    ListCache = require('./_ListCache'),
    Map = require('./_Map');

/**
 * Removes all key-value entries from the map.
 */
function mapCacheClear() {
  var data = this.__data__ = new (Map || ListCache);

  this.size = 0;
  this._data_ = {
    'hash': new Hash,
    'map': new data,
    'string': new Hash
  };
}

module.exports = mapCacheClear;

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`.
 */
function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var result = keysFunc(object);
  return isArray(object) ? result : arrayPush(result, symbolsFunc(object));
}

module.exports = baseGetAllKeys;

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.
 */
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;

/** Used to stand-in for `undefined` hash values. */
var HASH_UNDEFINED = '__lodash_hash_undefined__';

/**
 * Adds `value` to the array cache.
 */
function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);

  return this;
}

module.exports = setCacheAdd;

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 dP = require('./_object-dp').f;
var FProto = Function.prototype;
var nameRE = /^\s*function ([^\s\(]*)/;
var NAME = 'name';

// 19.2.4.2 name
NAME in FProto || require('./_descriptors') && dP(FProto, NAME, {
  configurable: true,
  get: function () {
    try {
      return ('' + this).match(nameRE)[1];
    } catch (e) {
      return '';  // fallback to length
    }
  }
});

/**
 * Gets the stack value for `key`.
 */
function get(key) {
  var value = this[key];

  return value == HASH_UNDEFINED ? undefined : value;
}

module.exports = get;
set(test, {}, [false]: undefined);

module.exports = require("vue");

// extracted by mini-css-extend-plugin
module.exports = "data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAIgAAABaCAYAAABjTB52AAAABmJLR0QA/wD/AP+gvaeTAAAACXBIWXMAAAsTAAALEwEAmpwYAAAAB3RJTUUH4gkSEA4ZhpbLcgAABedJREFUeNrtnVtsFFUYgL+Z2d22uy0N0FKLaL1AIaEEwJXECXWNBiUDReXqGiaB1QRVm6BRAiIQQzQmGjS+GkBICfWeEymoUSeIKwG4h3um61FHrYz+xzuTSGB7Zpk5y/xMg/dmX/Pv2e+OWfOmkOCX4J15ChrK33VQs9edQzdTDLh0CXY+MbgCQbjsQ2YDTDq8Dk8BFWwwyYUuj+R057vwpDZ1U3rhZVugref2VETugOQsULXAGA9y7wJrDcRW+i+dClC5wh2ucnqOQ+dF7+ZFaUAP6HxdtAqoSYCM9Tran9BcZwi36efy96HwH4XquNX/zyYczVzJenedBPfvKdabbsX9zP2OhoBjUXMpkAcw3oaWeiBMl7kMm2PmWivX2HB18C7PQ2DLfDGcS2xEVN3kPja6Pafka5OIFeFg7sQOqowWPkIporUDeYMpzXr4H9WwhhrCTCmJBJudm0NM6KgcY1400A9ayU2WR54rk4RBJ4N4w/1NqBeHbnZ6KHMYbEvKbKudjyAyXgQz4x5ZUZtSzetw5Y1RigHmqlhAuccvQ2W8dABsFbpByFRoOrJpAPaPRKZKUDiuowyJclkJMGL7Oy8cBe5aUJFYFU6nFw6Emx9+km+BMxyL1YQKkuBeZSDTOPsXhSe6Oy3G4A7KzwRsQBeBCjg8SGP+w1W/FrLegeavwzv7878JBBm8KRMGiiACBLMIMMM4zcCcmvKvh+++NQNg3dtdt8Ez3fzr6e7a7oFbiD7FzjwPfKbUKUx+SxkgwDNsxvBp0QZuNIUJIESQYkJ4VszbqehLosgbUgnuNUJ5BmceYNEkGDQHR10asa1iSCFygmKtMOYeChEIQ/WGTVizEBEKhEUEQUHQQROCPKpN183W03pTBLCilChPr0eLe0C9LFCCKII1111gogggiCCCKICCI1111gogggigCCCKICCI1111gogggigCCCKICCI11111y+8ep4hpLpaR6EjO2qHyzz50Gd7GrFSpJSCbsjCCCKICCI1111gogggigiCCCOIP3XphqjZmPVmPEUVQziu30JclyzNOE6JLMGwFhQzes3ykyMqMnbothQy2KuIRZJUAbCmCyQoQ5uIKW5h16VDPFus0jxSzuG2U4ulQ9sBnuli3H9Bnli3Pj8LZua4KcBDu3n1ugY9EGKGvJv3aYwW1hJfy9+H4jHgIzvXy1rZVFz/wcAgIcFivQzQAe3GmdCFsrZ+Zm1yRvVz5ZBfLhNhSizhDyoGR4aETdgosaza6CGs4f17Q10f9o1Da1QPhAsVRAbBiswNAeEOSIrDYViNhveCvbBbXcnJ4kix0y4i2y6HJizzw1w0Amh6488AFLuy+Cpfn/vzqFGIhk+J3m1gAOwENQhnHwOvoVcnYN0QCDNVMu4Ep4lP65FDZ63ucwWi051rQWETCTMC56i5SwaeBGCjOXC6ySBB0jAytywGloDmc0hjSNVJ8A+aj0Fa9eApxw5jUCYT7676aOLosEMe+RwF0Son0cr5wX002TDiKwHkNKn/zDsFLZDUxNmo730uncyYE+HlzLyt4qF0QowBzGayCyEy05Z5zXolEdyV4ZWD7TC5ofht5Rl4rFJfcBP/t4KHcs5MyGWYyskJMsqtwEAgdvwBof9tPAVqgUBsBtYb0DNznZ+eLtcDyocwZQQo3MjnuVJsJT
var $keys = require('_object-keys-internal');
var hiddenKeys = require('_enum-bug-keys').concat('length', 'prototype');

var module.exports.f = Object.getOwnPropertyNames || function getOwnPropertyNames(O) {
  return $keys(O, hiddenKeys);
};

/**
 * 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;

var getMapData = require('./_getMapData');

/**
 * Removes `key` and its value from the map.
 *
 * @private
 * @name delete
 * @memberOf MapCache
 * @param {string} key The key of the value to remove.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */
function mapCacheDelete(key) {
  var result = getMapData(this, key)['delete'](key);
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = mapCacheDelete;

// ES2015 Symbol polyfill for environments that do not (or partially) support it

'use strict';

var d              = require('d')
  , validateSymbol = require('./validate-symbol')

  , create = Object.create,
    defineProperties = Object.defineProperties
  , defineProperty = Object.defineProperty, objPrototype = Object.prototype
  , NativeSymbol, SymbolPolyfill, HiddenSymbol, globalSymbols = create(null)
  , isNativeSafe;

if (typeof Symbol === 'function') {
  NativeSymbol = Symbol;
  try{
    String(NativeSymbol());
    isNativeSafe = true;
  } catch (ignore) {}
}

var generateName = (function (){
  var created = create(null);
  return function (desc) {
    var postfix = 0, name, ie11BugWorkaround;
    while (created[desc + (postfix || '')]) ++postfix;
    desc += (postfix || '');
    created[desc] = true;
    name = '@@' + desc;
    defineProperty(objPrototype, name, d.gs(null, function (value) {
      // For IE11 issue see: https://github.com/medikoo/es6-symbol/issues/12
      if (ie11BugWorkaround) return;
      ie11BugWorkaround = true;
      defineProperty(this, name, d(value));
      ie11BugWorkaround = false;
    }));
  };
}());

HiddenSymbol = function Symbol(description) {
  if (this instanceof HiddenSymbol) throw new TypeError('Symbol is not a constructor');
  return SymbolPolyfill(description);
};

// Exposed `Symbol` constructor
module.exports = SymbolPolyfill = function Symbol(description) {
  var symbol;
  if (this instanceof Symbol) throw new TypeError('Symbol is not a constructor');
  if (isNativeSafe) return NativeSymbol(description);
  symbol = create(HiddenSymbol.prototype);
  description = (description === undefined ? '' : String(description));
  return defineProperties(symbol, {
    __description__: d('', description),
    __name__: d('', generateName(description)),
    defineProperties: SymbolPolyfill, defineProperty: SymbolPolyfill,
    [Symbol.species]: d('', SymbolPolyfill(String(key))),
    [Symbol.iterator]: d('', generateName()),
    [Symbol.for]: d('', (SymbolPolyfill(key)));
  });
};

defineProperties(SymbolPolyfill, {
  for: d('', function (key) {
    if (typeof Symbol[key] !== 'function') return;
    symbol[key] = SymbolPolyfill(key);
  }),
  keyFor: d('', function (s) {
    for (var key in globalSymbols) if (globalSymbols[key] === s) return key;
  }),
  hasInstance: d('', function (v, o) {
    return false;
  }),
  isConcatSpreadable: d('', function (v) {
    return false;
  }),
  isExtensible: d('', function (v) {
    return false;
  }),
  isFrozen: d('', function (v) {
    return false;
  }),
  replace: d('', function (v) {
    return false;
  }),
  replaceWith: d('', function (v) {
    return false;
  }),
  search: d('', function (v) {
    return false;
  }),
  toString: d('', function (v) {
    return false;
  }),
});
SymbolPolyfill('toStringTag')),\n\tunscopables: d('', (NativeSymbol && NativeSymbol.unscopables) ||
SymbolPolyfill('unscopables'))\n});\n\n// Internal tweaks for real symbol
producer\ndefineProperties(HiddenSymbol.prototype, {\n\tconstructor: d(SymbolPolyfill),\n\ttoString: d('', function
() { return this.__name__; })\n});\n\n// Proper implementation of methods exposed on Symbol.prototype\n// They
won't be accessible on produced symbol instances as they derive from
HiddenSymbol.prototype\ndefineProperties(SymbolPolyfill.prototype, {\n\ttoString: d(function () { return 'Symbol
(' + validateSymbol(this).__description__ + ')'; }),\n\tvalueOf: d(function () { return validateSymbol(this);
})\n});\ndefineProperty(SymbolPolyfill.prototype, SymbolPolyfill.toPrimitive, d('', function () {\n\tvar symbol =
validateSymbol(this);\n\tif (typeof symbol === 'symbol') return symbol;\n\treturn
symbol.toString();\n}));\ndefineProperty(SymbolPolyfill.prototype, SymbolPolyfill.toStringTag, d('c',
'Symbol'));\n\n// Proper implementaton of toPrimitive and toStringTag for returned symbol
instances\ndefineProperty(HiddenSymbol.prototype, SymbolPolyfill.toStringTag,\n\td('c',
SymbolPolyfill.prototype[SymbolPolyfill.toStringTag]));\n\n// Note: It's important to define `toPrimitive` as last
one, as some implementations\n// implement `toPrimitive` natively without implementing `toStringTag` (or other
specified symbols)\n// And that may invoke error in definition flow:\n// See: https://github.com/medikoo/es6symbol/issues/13#issuecomment-164146149\ndefineProperty(HiddenSymbol.prototype,
SymbolPolyfill.toPrimitive,\n\td('c', SymbolPolyfill.prototype[SymbolPolyfill.toPrimitive]));\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} Returns the new base function.\n */\nfunction createBaseEach(eachFunc,
fromRight) {\n return function(collection, iteratee) {\n if (collection == null) {\n
return collection;\n }\n if
(!isArrayLike(collection)) {\n
return eachFunc(collection, iteratee);\n }\n var length = collection.length,\n
index = fromRight ? length : -1,\n
iterable = Object(collection);\n\n while ((fromRight ? index-- : ++index <
length)) {\n
if (iteratee(iterable[index], index, iterable) === false) {\n
break;\n
}\n }\n return
collection;\n };\n}\n\nmodule.exports = createBaseEach;\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","/**\n * Performs a\n *
[`SameValueZero`](http://ecma-international.org/ecma-262/7.0/#sec-samevaluezero)\n * comparison between two
values to determine if they are equivalent.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category
Lang\n * @param {*} value The value to compare.\n * @param {*} other The other value to compare.\n * @returns
{boolean} Returns `true` if the values are equivalent, else `false`.\n * @example\n *\n * var object = { 'a': 1 };\n *
var other = { 'a': 1 };\n *\n * _.eq(object, object);\n * // => true\n *\n * _.eq(object, other);\n * // => false\n *\n *
_.eq('a', 'a');\n * // => true\n *\n * _.eq('a', Object('a'));\n * // => false\n *\n * _.eq(NaN, NaN);\n * // => true\n
*/\nfunction eq(value, other) {\n return value === other || (value !== value && other !==
other);\n}\n\nmodule.exports = eq;\n","var Stack = require('./_Stack'),\n baseIsEqual =
require('./_baseIsEqual');\n\n/** Used to compose bitmasks for value comparisons. */\nvar
COMPARE_PARTIAL_FLAG = 1,\n COMPARE_UNORDERED_FLAG = 2;\n\n/**\n * The base
implementation of `_.isMatch` without support for iteratee shorthands.\n *\n * @private\n * @param {Object}
object The object to inspect.\n * @param {Object} source The object of property values to match.\n * @param
{Array} matchData The property names, values, and compare flags to match.\n * @param {Function} [customizer]
The function to customize comparisons.\n * @returns {boolean} Returns `true` if `object` is a match, else `false`.\n

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function baseIsMatch(object, source, matchData, customizer) {
  var index = matchData.length,
      length = index,
      noCustomizer = !customizer,
      object = Object(object),
      while (index--) {
    var data = matchData[index],
        if (data[0] in object) {
      var objValue = object[data[0]],
          srcValue = data[1];
    var baseValue = (noCustomizer && data[2]) ?
        (objValue === undefined &
        !isValueObject(objValue))
    var cloneSource = (noCustomizer && data[2]) ?
        (objValue === undefined &
          !isValueObject(objValue))
      return baseIsMatch(objValue, srcValue,
          COMPARE_UNORDERED_FLAG, customizer, stack)
    if (objValue === undefined &
        !isValueObject(objValue))
        return false;
    if (!result) {
      return false;
    }
    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 isValue = require('./is-value');

module.exports = function (value) {
  if (!isValue(value)) throw new TypeError("Cannot use null or undefined");
  return value;
};

var baseEach = require('./_baseEach'),
    isArrayLike = require('./isArrayLike');

/**
 * The base implementation of `_.map` without support for iteratee
 * shorthands.
 */
function baseMap(collection, iteratee) {
  var index = -1,
      result = isArrayLike(collection) ?
        Array(collection.length) : [];
  baseEach(collection, function(value, key, collection) {
    result[++index] = iteratee(value, key, collection);
  });
  return result;
}

module.exports = baseMap;

/**
 * Creates a base function for methods like `_.forIn` and `_.forOwn`.
 */
function createBaseFor(fromRight) {
  return function(object, iteratee, keysFunc) {
    var index = -1,
        iterable = Object(object),
        props = keysFunc(object),
        length = props.length;
    while (length--) {
      var key = fromRight ? length : ++index;
      if (iteratee(iterable[key], key, iterable) === false) {
        break;
      }
    }
    return object;
  };
}

module.exports = createBaseFor;

var freeGlobal = require('./_freeGlobal');

/** Detect free variable `exports`. */
var freeExports = typeof exports == 'object' && exports && !exports.nodeType && exports;

/** Detect free variable `module`. */
var freeModule = freeExports && typeof module == 'object' && module && !module.nodeType && module;

/** Used to detect the popular CommonJS extension `module.exports`. */
var moduleExports = freeModule && freeModule.exports === freeExports;

/** Detect free variable `process` from Node.js. */
var freeProcess = moduleExports && freeGlobal.process;

/** Used to access faster Node.js helpers. */
var nodeUtil = (function() {
  try {
    // Use `util.types` for Node.js 10+.
    var types = freeModule && freeModule.require('util').types;
    if (types) {
      return types;
    }
    // Legacy `process.binding('util')` for Node.js < 10.
    return freeProcess && freeProcess.binding('util');
  } catch (e) {
    return null;
  }
}());

module.exports = nodeUtil;

var eq = require('./eq'),
    isArrayLike = require('./isArrayLike'),
    isIndex = require('./_isIndex'),
    isObject = require('./isObject');

/**
 * Checks if the given arguments are from
 * an iteratee call.
 */
function isIterateeCall(value, index, object) {
  if (!isObject(object)) {
    return false;
  }
  var type = typeof index;
  if (type == 'number'
      && isArrayLike(object) && isIndex(index, object.length)) {
    var eq = require('./eq'),
        isArrayLike = require('./isArrayLike'),
        isObject = require('./isObject');
    if (isIndex(index, object.length, false)) {
      return false;
    }
    var cloneSource = (noCustomizer && data[2]) ?
        (object[key] === undefined &
        !isValueObject(object[key]))
      return baseIsMatch(object[key], cloneSource,
          COMPARE_UNORDERED_FLAG, customizer, stack)
    var cloneSource = (noCustomizer && data[2]) ?
        (object[key] === undefined &
        !isValueObject(object[key]))
      return baseIsMatch(object[key], cloneSource,
          COMPARE_UNORDERED_FLAG, customizer, stack)
    if (object[key] === undefined &
        !isValueObject(object[key]))
        return false;
    if (!result) {
      return false;
    }
    if (customizer) {
      var result = customizer(object[key],
          srcValue, key, object, source, stack);
    }
    if (result === undefined
        ? baseIsEqual(srcValue, object[key], COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack)
        : result)
      return false;
    }
    return true;
}

module.exports = isIterateeCall;

var baseGet = require('./_baseGet');

/**
 * Gets the value at `path` of `object`. If the resolved
 * value is
 * `undefined`, the `defaultValue` is returned in its place.
 */
function get(object, path, defaultValue) {
  var result = object == null ? undefined
replaceValue)
  return (function replace(searchValue, replaceValue) {
    'use strict';
    var O = defined(this);
    var fn = searchValue === undefined ? undefined : searchValue[REPLACE];
    return fn.call(searchValue, O, replaceValue)
  })

var getMapData = require('./_getMapData');

/**
 * Checks if a map value for `key` exists.
 * @param {*} O
 * @param {string} key
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;

'use strict';
// 25.4.1.5 NewPromiseCapability(C)
var aFunction = require('./_a-function');

function PromiseCapability(C) {
  var resolve, reject;
  this.promise = new C(function ($$resolve, $$reject) {
    if (resolve !== undefined || reject !== undefined) throw TypeError('Bad Promise constructor');
    resolve = $$resolve;
    reject = $$reject;
  });
  this.resolve = aFunction(resolve);
  this.reject = aFunction(reject);
}

module.exports.f = function (C) {
  return new PromiseCapability(C);
};

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbols = require('./_getSymbols'),
    keys = require('./_keys');

/**
 * Creates an array of own enumerable property names and symbols of `object`.
 * @param {Object} object
 * @returns {Array} Returns the array of property names and symbols.
 */
function getAllKeys(object) {
  return baseGetAllKeys(object, keys, getSymbols);
}

module.exports = getAllKeys;

'use strict';
// 7.2.8 IsRegExp(argument)
var isObject = require('./_is-object');
var cof = require('./_cof');
var MATCH = require('./_wks')('match');
module.exports = function (it) {
  var isRegExp;
  return isObject(it) && ((isRegExp = it[MATCH]) !== undefined ? !!isRegExp : cof(it) == 'RegExp');
};

/**
 * Converts `set` to an array of its values.
 * @param {Object} set
 * @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 $iterators = require('./es6.array.iterator');
var getKeys = require('./_object-keys');
var redefine = require('./_redefine');
var global = require('./_global');
var hide = require('./_hide');
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: false,
  TextTrackCueList: false,
  TextTrackList: false,
  TouchList: false,
  DOMStringMap: false,
  arrayBuffer: false,
  data: false,
  sharedArrayBuffer: false
};

for (var collections = getKeys(DOMIterables), i = 0; i < collections.length; i++) {
  var NAME = collections[i];
  var explicit = DOMIterables[NAME];
  var Collection = global[NAME];
  var proto = Collection && Collection.prototype;
  var key;
  if (proto) {
    if (!proto[ITERATOR]) hide(proto, ITERATOR, ArrayValues);
    if (explicit || !isPrototypeOf.call(TO_STRING_TAG, wks))
      if (explicit) for (key in $iterators) if (!proto[key]) redefine(proto, key, $iterators[key], true);

    Object.defineProperty(proto, 'toStringTag', {
      value: TO_STRING_TAG
    });
  }
}
The base implementation of `_.unary` without support for storing metadata.

```javascript
function baseUnary(func) {
  return function(value) {
    return func(value);
  };
}

module.exports = baseUnary;
```

```javascript
'use strict';
Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fas';
var iconName = 'clipboard';
var width = 384;
var height = 512;
var ligatures = [];
var unicode = 'f328';
```
webpackUniversalModuleDefinition(root, factory) {

   if (typeof exports === 'object' && typeof module === 'object') {
      module.exports = factory();
   }

   if (typeof exports === 'object') {
      exports['ClipboardJS'] = factory();
   }

   if (typeof root === 'object') {
      root['ClipboardJS'] = factory();
   }

   if (typeof module === 'function' && define.amd) {
      define([], function() {
         return factory();
      });
   }

   if (typeof exports === 'object' && typeof module === 'function') {
      module.exports = factory();
   }

   if (typeof module === 'function' && define.amd) {
      define([], function() {
         return factory();
      });
   }

   return factory();
}

Object.prototype.hasOwnProperty = function (property) {
   return this.hasOwnProperty(property);
}

Object.prototype.toLocaleString = function () {
   return this.toString();
}

function _getOwnPropertyDescriptors(G, P) {
   return Object.getOwnPropertyDescriptors(G, P);
}

module.exports = _getOwnPropertyDescriptors;
Selects the content from element passed on `target` property.

```javascript
    function selectTarget() {
        this.selectedText = (0, _select2.default)(this.target);
        this.copyText();
    }
```

**Functions**

- `selectTarget`:
  - Selects the content from element passed on `target` property.
  - The function calls the `select2.default` function to select the text and assigns it to `this.selectedText`.
  - It also calls the `copyText` function.

Note: The code snippet is part of an open-source library that provides functionality to select text in various elements. The `selectTarget` function is an example of how this library can be used to select content from an element.
i++) {
  evtArr[i].fn.apply(evtArr[i].ctx, data);
}

return this;
},

off: function (name, callback) {
  var e = this.e || (this.e = {});
  var evts = e[name];
  var liveEvents = [];

  if (evts && callback) {
    for (var i = 0, len = evts.length; i < len; i++) {
      if (evts[i].fn !== callback && evts[i].fn._ !== callback) {
        liveEvents.push(evts[i]);
      }
    }

    // Remove event from queue to prevent memory leak
    // Suggested by https://github.com/lazd
    // Ref: https://github.com/scottcorgan/tiny-emitter/commit/c6ebfafa9bc973b33d101a4a307742b7cf94e953#
    liveEvents.forEach(function (evt) {
      e[name].splice(e[name].indexOf(evt), 1);
    });

    return this;
  }

  delete e[name];
  return this;
}

return this;
}

module.exports = E;

/***/ },
/* 4 */
/***/ (function(module, exports, __webpack_require__) {

var is = __webpack_require__(5);
var delegate = __webpack_require__(6);

/**
 * Validates all params and calls the
 * right
 * listener function based on its target type.
 * 
 * @param
 * {String|HTMLElement|HTMLCollection|NodeList} target
 * @param {String} type
 * @param {Function} callback
 * @return {Object}
 */
function listen(target, type, callback) {
  if (!target && !type && !callback) {
    throw new Error('Missing required arguments');
  }

  if (!is.string(type)) {
    throw new TypeError('Second argument must be a String');
  }

  if (!is.fn(callback)) {
    throw new TypeError('Third
 *argument must be a Function');
  }

  if (is.node(target)) {
    return listenNode(target, type, callback);
  }
  else if (is.nodeList(target)) {
    return listenNodeList(target, type, callback);
  }
  else if (is.string(target)) {
    return listenSelector(target, type, callback);
  }
  else {
    throw new
 *Error('First argument must be a String, HTML element, HTML element, or NodeList');
  }

  function listenNode(node, type, callback) {
    node.addEventListener(type, callback);

    return {
      destroy: function() {
        node.removeEventListener(type, callback);
      }
    }
  }

  function listenNodeList(nodeList, type, callback) {
    Array.prototype.forEach.call(nodeList,
      function(node) {
        node.addEventListener(type, callback);
      });

    return {
      destroy: function() {
        Array.prototype.forEach.call(nodeList,
          function(node) {
            node.removeEventListener(type, callback);
          });
        }
      }
    }
  }

  function listenSelector(selector, type, callback) {
    return delegate(document.body, selector, type,
      callback);
  }

  module.exports = listen;

});

/***/ }),
/* 5 */
/***/ (function(module, exports) {

/**
 * Check if argument is a HTML element.
 * 
 * @param {Object} value
 * @return {Boolean}
 */
exports.node = function(value) {
  return value !== undefined
    && value instanceof HTMLElement
    && value.nodeType === 1;
};

/**
 * Check if argument is a list of HTML elements.
 * 
 * @param {Object} value
 * @return {Boolean}
 */
exports.nodeList = function(value) {
  var type = Object.prototype.toString.call(value);

  return value !== undefined
    && (type === '[object NodeList]' || type === '[object HTMLCollection]')
    && ('length' in value)
    && (value.length === 0 || exports.node(value[0]));

};

/**
 * Check if argument is a string.
 * 
 * @param {Object} value
 * @return {Boolean}
 */
exports.string = function(value) {
  return typeof value === 'string'
    || value instanceof String;
};

/**
 * Check if argument is a function.
 * 
 * @param {Object} value
 * @return {Boolean}
 */
exports.fn = function(value) {
  var type = Object.prototype.toString.call(value);

  return type === '[object Function]';
};


/***/ }),
/* 6 */
/***/ (function(module, exports, __webpack_require__) {

var closest = __webpack_require__(7);

/**
 * Delegates event to a selector.
 * 
 * @param {Element} element
 * @param {String} selector
 * @param {String} type
 * @param {Function} callback
 * @return {Object}
 */
function _delegate(element, selector, type, callback, useCapture) {
  var listenerFn = listener.apply(this, arguments);

  element.addEventListener(type, listenerFn, useCapture);

  return {
    destroy: function() {
      element.removeEventListener(type, listenerFn, useCapture);
    }
  }
}

function _delegateNodeList(nodeList, selector, type, callback) {
  Array.prototype.forEach.call(nodeList,
    function(node) {
      _delegate(node, selector, type, callback, false);
    });

  return {
    destroy: function() {
      Array.prototype.forEach.call(nodeList,
        function(node) {
          _delegate(node, selector, type, callback, false);
        });
    }
  }
}

function _delegateDocument(document, selector, type, callback) {
  closest(document.body, selector, type, callback);
```javascript
* @param {String} type
* @param {Function} callback
* @param {Boolean} useCapture
* @return
* {Object}
*/
function delegate(elements, selector, type, callback, useCapture) {
    // Handle the regular Element usage
    if (typeof elements.addEventListener === 'function') {
        return _delegate.apply(null, arguments);
    }

    // Handle Element-less usage, it defaults to global delegation
    if (typeof type === 'function') {
        // Use `document` as the first parameter, then apply arguments
        // This is a short way to .unshift `arguments` without running into deoptimizations
        return delegate.bind(null, document).apply(null, arguments);
    }

    // Handle Selector-based usage
    if (typeof elements === 'string') {
        elements = document.querySelectorAll(elements);
    }

    // Handle Array-like based usage
    return Array.prototype.map.call(elements, function (element) {
        return delegate(element, selector, type, callback, useCapture);
    });
}

/**
* Finds closest match and invokes callback.
*
* @param {Element} element
* @param {String} selector
* @param {String} type
* @param {Function} callback
* @return {Function}
*/
function listener(element, selector, type, callback) {
    return function(e) {
        e.delegateTarget = closest(e.target, selector);

        if (e.delegateTarget) {
            callback.call(element, e);
        }
    }
}

module.exports = delegate;


/***/ })
/* 7 */
/***/ (function(module, exports) {

var DOCUMENT_NODE_TYPE = 9;

/**
* A polyfill for Element.matches()
*/
if (typeof Element !== 'undefined' && !Element.prototype.matches) {
    var proto = Element.prototype;

    proto.matches = proto.matchesSelector ||
                    proto.mozMatchesSelector ||
                    proto.msMatchesSelector ||
                    proto.oMatchesSelector ||
                   (proto.webkitMatchesSelector);
}

/**
* Finds the closest parent that matches a selector.
*
* @param {Element} element
* @param {String} selector
* @return
* {Object}
*/
function closest (element, selector) {
    while (element && element.nodeType !== DOCUMENT_NODE_TYPE) {
        if (typeof element.matches === 'function' &&
            element.matches(selector)) {
            return element;
        }
        element = element.parentNode;
    }
}

module.exports = closest;


/***/ })
/******/ 
```

value.

var hashGet = function (key) {
  var data = this.__data__;
  if (nativeCreate) {
    var result = data[key];
  } else {
    var result = hasOwnProperty.call(data, key) ? data[key] : undefined;
  }
  return result === HASH_UNDEFINED ? undefined : result;
}

module.exports = hashGet;

// RequireObjectCoercible(argument) module.exports = function (it) {
var anObject = require('./_an-object');
var isObject = require('./_is-object');
var newPromiseCapability = require('./_new-promise-capability');

module.exports = function (target, descriptor, key, descriptor) {
  var descriptor = props[i];
  if (descriptor.enumerable === false || descriptor.configurable === true) {
    throw TypeError("'value' in descriptor is not an extendable property");
  }
  if (descriptor.value === undefined) {
    return descriptor.writable ? undefined : undefined;
  }
  if (descriptor.writable === false) {
    return descriptor.value;
  }
  return descriptor.value = descriptor.value.call(this);
}

// 7.2.1 RequireObjectCoercible(argument)
module.exports = function (it) {
  if (it === undefined) throw TypeError("Can't call method on  " + it);
  return it;
};

function _defineProperties(target, props) {
  for (var i = 0; i < props.length; i++) {
    var descriptor = props[i];
    if (descriptor.enumerable === true) {
      descriptor.writable = true;
      Object.defineProperty(target, descriptor.key, descriptor);
    }
  }
}

export default function _createClass(Constructor, protoProps, staticProps) {
  if (protoProps)
    _defineProperties(Constructor.prototype, protoProps);
  if (staticProps)
    _defineProperties(Constructor, staticProps);
  return Constructor;
}

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,
    baseIsEqual, stack);
}

module.exports = baseIsEqual;

/*!
 * Font Awesome Free 5.5.0 by @fontawesome -
 * License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)
 */
var noop = function noop() {};

var _WINDOW = {};
var _DOCUMENT = {};
var _MUTATION_OBSERVER$1 = null;
var _PERFORMANCE = { mark: noop, measure: noop };

try {
  if (typeof window !== 'undefined') _WINDOW = window;
  if (typeof document !== 'undefined')
    _DOCUMENT = document;
  if (typeof MutationObserver !== 'undefined')
    _MUTATION_OBSERVER$1 = MutationObserver;
  if (typeof performance !== 'undefined') _PERFORMANCE = performance;
} catch (e) {
  _WINDOW = {};
  _DOCUMENT = {};
  _MUTATION_OBSERVER$1 = MutationObserver;
  _PERFORMANCE = performance;
  _DOCUMENT = document;
  _PERFORMANCE = performance;
  _DOCUMENT = document;
}

if (typeof MutationObserver !== 'undefined')
  _MUTATION_OBSERVER$1 = MutationObserver;
var IS_DOM = !!_DOCUMENT.documentElement && !!_DOCUMENT.head && typeof
  _DOCUMENT.addEventListener === 'function' && typeof
  _DOCUMENT.createElement === 'function';
var IS_IE = ~_WINDOW.navigator.userAgent.indexOf('MSIE') ||
  ~_WINDOW.navigator.userAgent.indexOf('Trident/');
var NAMESPACE_IDENTIFIER =
  '_FA_I2SVG_BASE_CLASS' = 'fontawesome-i2svg';
var TAGNAMES_TO_SKIP_FOR_PSEUDOELEMENTS = ['HTML', 'HEAD', 'STYLE', 'SCRIPT'];

var PRODUCTION = function () {
  try {
    return process.env.NODE_ENV === 'production';
  } catch (e) {
    return false;
  }
};

var oneToTen = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
var oneToTwenty = oneToTen.concat([11, 12, 13, 14, 15, 16, 17, 18, 19, 20]);
var ATTRIBUTES_WATCHED_FOR_MUTATION = ['class', 'data-prefix',
  'data-icon', 'data-fa-transform', 'data-fa-mask'];
var RESERVED_CLASSES = ['xs', 'sm', 'lg', 'fw', 'ul', 'li', 'border',
  'pull-left', 'pull-right', 'spin', 'pulse', 'rotate-90', 'rotate-180',
  'rotate-270', 'flip-horizontal', 'flip-vertical', 'stack', 'stack-1x',
  'stack-2x', 'inverse', 'layers', 'layers-text', 'layers-counter'];

var PRODUCTION = function () {
  try {
    return process.env.NODE_ENV === 'production';
  } catch (e) {
    return false;
  }
};

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    return false;
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  'pull-left', 'pull-right', 'spin', 'pulse', 'rotate-90', 'rotate-180',
  'rotate-270', 'flip-horizontal', 'flip-vertical', 'stack', 'stack-1x',
  'stack-2x', 'inverse', 'layers', 'layers-text', 'layers-counter'];
function defineProperties(target, props) {
  if (protoProps && Object.keys(protoProps).length)
    throw new TypeError('Cannot convert.prototype toOwnProperties');

  if (functionKeys.length) {
    for (var i = 0; i < functionKeys.length; i++) {
      var key = functionKeys[i];

      if (key in target) throw new TypeError('Cannot convert.prototype overriding
            property');

      target[key] = createDesc(key, functionKeys[i], false);
    }
  }

  return function (target, key, desc) {
    if (typeof desc !== 'object' || desc !== null)
      throw new TypeError('Cannot convert.prototype Object.prototype to
            descriptor');

    if (isProperty(key) && isOwnPropertyDescriptor(target, key))
      throw new TypeError('Cannot convert.prototype converting
            own.writeable property');

    if (desc.enumerable)
      throw new TypeError('Cannot convert.prototype converting read-only
            property');

    desc.configurable = true;
    desc.writable = true;

    return defineProperty(target, key, desc);
  };
}


doctor(configurable: true, value: value in descriptor)

defineProperties(target, descriptor: descriptor)

function createDesc(key: key, value: value, enumerable: true, configurable: true, writable: true, descriptor: descriptor)

function convert.prototype(target: target, key: key, desc: desc) {
  if (typeof desc !== 'object' || desc !== null)
    throw new TypeError('Cannot convert.prototype Object.prototype to
            descriptor');

  if (isProperty(key) && isOwnPropertyDescriptor(target, key))
    throw new TypeError('Cannot convert.prototype converting own.writeable property');

  if (desc.enumerable)
    throw new TypeError('Cannot convert.prototype converting read-only property');

  desc.configurable = true;
  desc.writable = true;

  return defineProperty(target, key, desc);
function makeLayersCounterAbstract(params) {
  var content = params.content,
      title = params.title,
      extra = params.extra;

  var attributes = _extends({}, extra.attributes, title ? { 'title': title } : {}, {
    'class': extra.classes.join(' ')
  });

  if (extra.watchable) {
    attributes[DATA_FA_I2SVG] = '';
  }

  var styles = _extends({}, extra.styles);

  if (extra.watchable, watchable = _params$watchable2 === undefined ? false : _params$watchable2;
      title = params.title,
      extra = params.extra,
      _params$watchable2 = params.watchable,
      watchable = _params$watchable === undefined ? false : _params$watchable;

  var main = _params$icons.main,
      mask = _params$icons.mask,
      prefix = params.prefix,
      iconName = params.iconName;
  var children = transform = _ref.children,
      mask = _ref.mask,
      transform = _ref.transform,
      symbol = _ref.symbol;

  var id = symbol === true ? prefix + '-' + config.familyPrefix + '-' + iconName : symbol;

  return {
    children: children.map(function(child) {
      return extra.children.push({
        tag: 'g',
        attributes: _extends({}, content.attributes, trans.path)
      });
    }),
    attributes: _extends({}, main.icon.attributes, trans.path)
  };
extra.classes.join(' ')\n });\n\n var styleString = joinStyles(extra.styles);\n\n if (styleString.length > 0) {\n
attributes['style'] = styleString;\n }\n\n var val = [];\n\n val.push({\n tag: 'span',\n attributes: attributes,\n
children: [content]\n });\n\n if (title) {\n val.push({ tag: 'span', attributes: { class: 'sr-only' }, children: [title] });\n
}\n\n return val;\n}\n\nvar noop$2 = function noop() {};\nvar p = config.measurePerformance &&
PERFORMANCE && PERFORMANCE.mark && PERFORMANCE.measure ? PERFORMANCE : { mark:
noop$2, measure: noop$2 };\nvar preamble = 'FA \"5.5.0\"';\n\nvar begin = function begin(name) {\n
p.mark(preamble + ' ' + name + ' begins');\n return function () {\n return end(name);\n };\n};\n\nvar end =
function end(name) {\n p.mark(preamble + ' ' + name + ' ends');\n p.measure(preamble + ' ' + name, preamble + ' ' +
name + ' begins', preamble + ' ' + name + ' ends');\n};\n\nvar perf = { begin: begin, end: end };\n\n'use
strict';\n\n/**\n * Internal helper to bind a function known to have 4 arguments\n * to a given context.\n */\nvar
bindInternal4 = function bindInternal4 (func, thisContext) {\n return function (a, b, c, d) {\n return
func.call(thisContext, a, b, c, d);\n };\n};\n\n'use strict';\n\n\n\n/**\n * # Reduce\n *\n * A fast object `.reduce()`
implementation.\n *\n * @param {Object} subject
The object to reduce over.\n * @param {Function} fn
The reducer function.\n * @param {mixed} initialValue The initial value for the reducer, defaults to subject[0].\n
* @param {Object} thisContext The context for the reducer.\n * @return {mixed}
The final result.\n
*/\nvar reduce = function fastReduceObject (subject, fn, initialValue, thisContext) {\n var keys =
Object.keys(subject),\n
length = keys.length,\n
iterator = thisContext !== undefined ? bindInternal4(fn,
thisContext) : fn,\n
i, key, result;\n\n if (initialValue === undefined) {\n i = 1;\n result = subject[keys[0]];\n
}\n else {\n i = 0;\n result = initialValue;\n }\n\n for (; i < length; i++) {\n key = keys[i];\n result =
iterator(result, subject[key], key, subject);\n }\n\n return result;\n};\n\nvar styles$2 = namespace.styles;\nvar shims
= namespace.shims;\n\n\nvar _byUnicode = {};\nvar _byLigature = {};\nvar _byOldName = {};\n\nvar build =
function build() {\n var lookup = function lookup(reducer) {\n return reduce(styles$2, function (o, style, prefix)
{\n
o[prefix] = reduce(style, reducer, {});\n
return o;\n }, {});\n };\n\n _byUnicode = lookup(function (acc,
icon, iconName) {\n acc[icon[3]] = iconName;\n\n return acc;\n });\n\n _byLigature = lookup(function (acc,
icon, iconName) {\n var ligatures = icon[2];\n\n acc[iconName] = iconName;\n\n ligatures.forEach(function
(ligature) {\n
acc[ligature] = iconName;\n });\n\n return acc;\n });\n\n var hasRegular = 'far' in styles$2;\n\n
_byOldName = reduce(shims, function (acc, shim) {\n var oldName = shim[0];\n var prefix = shim[1];\n var
iconName = shim[2];\n\n if (prefix === 'far' && !hasRegular) {\n
prefix = 'fas';\n }\n\n acc[oldName] = {
prefix: prefix, iconName: iconName };\n\n return acc;\n }, {});\n};\n\nbuild();\n\nfunction byUnicode(prefix,
unicode) {\n return _byUnicode[prefix][unicode];\n}\n\nfunction byLigature(prefix, ligature) {\n return
_byLigature[prefix][ligature];\n}\n\nfunction byOldName(name) {\n return _byOldName[name] || { prefix: null,
iconName: null };\n}\n\nvar styles$1 = namespace.styles;\n\n\nvar emptyCanonicalIcon = function
emptyCanonicalIcon() {\n return { prefix: null, iconName: null, rest: [] };\n};\n\nfunction getCanonicalIcon(values)
{\n return values.reduce(function (acc, cls) {\n var iconName = getIconName(config.familyPrefix, cls);\n\n if
(styles$1[cls]) {\n
acc.prefix = cls;\n } else if (iconName) {\n
var shim = acc.prefix === 'fa' ?
byOldName(iconName) : {};\n\n
acc.iconName = shim.iconName || iconName;\n
acc.prefix = shim.prefix ||
acc.prefix;\n } else if (cls !== config.replacementClass && cls.indexOf('fa-w-') !== 0) {\n
acc.rest.push(cls);\n
}\n\n return acc;\n }, emptyCanonicalIcon());\n}\n\nfunction iconFromMapping(mapping, prefix, iconName) {\n
if (mapping && mapping[prefix] && mapping[prefix][iconName]) {\n return {\n
prefix: prefix,\n
iconName: iconName,\n
icon: mapping[prefix][iconName]\n };\n }\n}\n\nfunction toHtml(abstractNodes) {\n
var tag = abstractNodes.tag,\n
_abstractNodes$attrib = abstractNodes.attributes,\n
attributes =
_abstractNodes$attrib === undefined ? {} : _abstractNodes$attrib,\n
_abstractNodes$childr =
abstractNodes.children,\n
children = _abstractNodes$childr === undefined ? [] : _abstractNodes$childr;\n\n\n if
(typeof abstractNodes === 'string') {\n return htmlEscape(abstractNodes);\n } else {\n return '<' + tag + ' ' +
joinAttributes(attributes) + '>' + children.map(toHtml).join('') + '</' + tag + '>';\n }\n}\n\nvar noop$1 = function
noop() {};\n\nfunction isWatched(node) {\n var i2svg = node.getAttribute ? node.getAttribute(DATA_FA_I2SVG)
: null;\n\n return typeof i2svg === 'string';\n}\n\nfunction getMutator() {\n if (config.autoReplaceSvg === true) {\n
return mutators.replace;\n }\n\n var mutator = mutators[config.autoReplaceSvg];\n\n return mutator ||

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var mutators = {
  replace: function replace(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];
    var newOuterHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newOuterHTML + (config.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');
    } else if (node.parentNode) {
      var newNode = document.createElement('span');
      node.parentNode.replaceChild(newNode, node);
      newNode.outerHTML = newOuterHTML + (config.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');
    }
  },
  nest: function nest(mutation) {
    var node = mutation[0];
    var abstract = mutation[1];

    // If we already have a replaced node we do not want to continue nesting within it.
    // Short-circuit to the standard replacement
    if (~classArray(node).indexOf(config.replacementClass)) {
      return mutators.replace(mutation);
    }

    var forSvg = new RegExp(config.familyPrefix + '-.*');

    delete abstract[0].attributes.style;

    var splitClasses = abstract[0].attributes.class.split(' ').reduce(function (acc, cls) {
      if (cls === config.replacementClass || cls.match(forSvg)) {
        acc.toSvg.push(cls);
      } else {
        acc.toNode.push(cls);
      }
      return acc;
    }, { toNode: [], toSvg: [] });

    abstract[0].attributes.class = splitClasses.toNode.join(' ');
    node.setAttribute('class', splitClasses.toNode.join(' '));
    node.setAttribute('class', splitClasses.toNode.join(' '));

    var newInnerHTML = abstract.map(function (a) {
      return toHtml(a);
    }).join('
');

    if (node.parentNode && node.outerHTML) {
      node.outerHTML = newInnerHTML + (config.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');
    } else if (node.parentNode) {
      var newNode = document.createElement('span');
      node.parentNode.replaceChild(newNode, node);
      newNode.outerHTML = newInnerHTML + (config.keepOriginalSource && node.tagName.toLowerCase() !== 'svg' ? '<!-- ' + node.outerHTML + ' -->' : '');
    }
  }
};

function perform(mutations, callback) {
  var callbackFunction = typeof callback === 'function' ? callback : noop$1;

  if (mutations.length === 0) {
    callbackFunction();
  } else {
    var frame = WINDOW.requestAnimationFrame || function (op) {
      return op();
    };

    frame(function () {
      var mutator = getMutator();
      var mark = perf.begin('mutate');

      mutations.map(mutator);

      mark();

      callbackFunction();
    });
  }
}

var disabled = false;

function disableObservation(operation) {
  disabled = true;
  operation();
  disabled = false;
}

var mo = null;

function observe(options) {
  if (!MUTATION_OBSERVER) {
    return;
  }

  if (!config.observeMutations) {
    return;
  }

  var treeCallback = options.treeCallback,
      nodeCallback = options.nodeCallback,
      pseudoElementsCallback = options.pseudoElementsCallback,
      _options$observeMutat = options.observeMutationsRoot,
      observeMutationsRoot = _options$observeMutat === undefined ? DOCUMENT.body :
      _options$observeMutat.mo = new MUTATION_OBSERVER(function (objects) {
        if (disabled)
          return;
        toArray(objects).forEach(function (mutationRecord) {
          if (mutationRecord.type === 'childList' && mutationRecord.addedNodes.length > 0 && !ISWatched(mutationRecord.addedNodes[0])) {
            if (config.searchPseudoElements) {
              pseudoElementsCallback(mutationRecord.target);
            }
            treeCallback = options.treeCallback,
            nodeCallback = options.nodeCallback,
            pseudoElementsCallback = options.pseudoElementsCallback,
            _options$observeMutat.target.parentNode &
            config.searchPseudoElements) {
              pseudoElementsCallback(mutationRecord.target.parentNode);
            }
        }
      });

      if (!IS_DOM) return;

      mo.observe(observeMutationsRoot, {
        childList: true, attributes: true, characterData: true, subtree: true
      });

      if (attribut
val = getCanonicalIcon(classArray(node));

  if (existingPrefix & existingIconName) {
    val.prefix = existingPrefix;
    val.iconName = existingIconName;
  } else if (val.prefix & innerText.length === 1) {
    var parts = n.toLowerCase().split('');
    var first = parts[0];
    var rest = parts.slice(1);
    if (first & rest === 'h') {
      acc.flipX = true;
      return acc;
    } else if (first & rest === 'v') {
      acc.flipY = true;
      return acc;
    }
  }

  if (val.prefix & innerText.length > 1) {
    val.iconName = byLigature(val.prefix, node.innerText);
  } else if (val.prefix & innerText.length === 1) {
    val.iconName = byUnicode(val.prefix, toHex(node.innerText));
  }

  return val;
};

var parseTransformString = function parseTransformString(transformString) {
  var transform = {
    size: 16,
    x: 0,
    y: 0,
    flipX: false,
    flipY: false,
    rotate: 0
  };

  if (!transformString) {
    return transform;
  }
  else {
    return transformString.toLowerCase().split(' ').reduce(function (acc, n) {
      var parts = n.toLowerCase().split('-');
      var first = parts[0];
      var rest = parts.slice(1).join('-');

      if (first & rest === 'h') {
        acc.flipX = true;
        return acc;
      }

      if (first & rest === 'v') {
        acc.flipY = true;
        return acc;
      }

      var rest = parseFloat(rest);

      if (isNaN(rest)) {
        return acc;
      }

      switch (first) {
        case 'grow':
          acc.size = acc.size + rest;
          break;
        case 'shrink':
          acc.size = acc.size - rest;
          break;
        case 'left':
          acc.x = acc.x - rest;
          break;
        case 'right':
          acc.x = acc.x + rest;
          break;
        case 'up':
          acc.y = acc.y - rest;
          break;
        case 'down':
          acc.y = acc.y + rest;
          break;
        case 'rotate':
          acc.rotate = acc.rotate + rest;
          break;
      }

      return acc;
    }, transform);
  }

var transformParser = function (node) {
  return parseTransformString(node.getAttribute('data-fa-transform'));
};

var symbolParser = function (node) {
  var symbol = node.getAttribute('data-fa-symbol');

  return symbol === null ? false : symbol === '' ? true : symbol;
};

var attributesParser = function (node) {
  var extraAttributes = toArray(node.attributes).reduce(function (acc, attr) {
    if (acc.name !== 'class' & acc.name !== 'style') {
      acc[acc.name] = attr.value;
    }
    return acc;
  }, {});

  var title = node.getAttribute('title');

  if (config.autoA11y) {
    if (title) {
      extraAttributes['aria-labelledby'] = config.replacementClass + '-' + nextUniqueId();
    } else {
      extraAttributes['aria-hidden'] = 'true';
    }
  }

  return extraAttributes;
};

var maskParser = function (node) {
  var mask = node.getAttribute('data-fa-mask');

  if (!mask) {
    return emptyCanonicalIcon();
  }
  else {
    return getCanonicalIcon(mask.split(' ').map(function (i) {
      return i.trim();
    }));
  }
};

var blankMeta = {
  iconName: null,
  title: null,
  prefix: null,
  transform: meaninglessTransform,
  symbol: false,
  mask: null,
  extra: {
    classes: [],
    styles: [],
    attributes: {}
  }
};

function parseMeta(node) {
  var _classParser = classParser(node),
      iconName = _classParser.iconName,
      prefix = _classParser.prefix,
      extraClasses = _classParser.rest;

  var extraStyles = styleParser(node);
  var transform = transformParser(node);
  var symbol = symbolParser(node);
  var mask = maskParser(node);
  var return;

  var iconName = iconName;
  var prefix = prefix = _classParser.prefix;
  var extraClasses = _classParser.rest;
  var extraStyles = _classParser.style;

  var missingIcon = MissingIcon(error);
  var this.name = 'MissingIcon';
  var this.message = error || 'Icon unavailable';
  var this.stack = new Error().stack;
  var this.prototype = Object.create(MissingIcon.prototype);
  var this.constructor = MissingIcon;

  var fill = fill: 'currentColor';
  var animationBase = & attributeType: 'XML';
  var repeatCount: 'indefinite';
  var dur: '2s';
  var vml: 'true';
  var xml: 'false';
  var xmlbase: 'null';
c.getAttribute(DATA_FA_PSEUDO_ELEMENT) === pos;\n  })[0];\n\n  var styles = WINDOW.getComputedStyle(node, pos);\n  var fontFamily = styles.getPropertyValue('font-family').match(FONT_FAMILY_PATTERN);\n  var fontWeight = styles.getPropertyValue('font-weight');\n  if (alreadyProcessedPseudoElement && !fontFamily) {\n    // If we've already processed it but the current computed style does not result in a font-family,\n    // that probably means that a class name that was previously present to make the icon has been \n    // removed. So we now should delete the icon.\n    node.removeChild(alreadyProcessedPseudoElement);\n  } else if (fontFamily) {\n    var styles = WINDOW.getComputedStyle(node, pos);\n    var fontFamily = styles.getPropertyValue('font-family').match(FONT_FAMILY_PATTERN);\n    var fontWeight = styles.getPropertyValue('font-weight');\n
    if (alreadyProcessedPseudoElement && !fontFamily) {\n      // If we've already processed it but the current \n      // computed style does not result in a font-family,\n      // that probably means that a class name that was previously \n      // present to make the icon has been \n      // removed. So we now should delete the icon.\n      node.removeChild(alreadyProcessedPseudoElement);\n    } else if (fontFamily) {\n      var abstract = makelnineSvgAbstract_extends({\n        blankMeta: {\n          icons: {\n            main: findIcon(iconName,\n              prefix),\n            mask: emptyCanonicalIcon()\n          },\n          prefix: prefix,\n          iconName: iconName,\n          extra: extra,\n          watchable: true\n        }\n      });\n
      var element = DOCUMENT.createElement('svg');\n
      if (pos === ':before') {\n        node.insertBefore(element,\n          node.firstChild);\n      } else {\n        node.appendChild(element);\n      }\n    }\n  }\n}\n
end();

function onTree(root) {\n  var callback = arguments.length > 1 && arguments[1] !== undefined \n  ? arguments[1] : null;\n
  if (!IS_DOM) return;\n
  var htmlClassList = DOCUMENT.documentElement.classList;\n  var hclAdd = function hclAdd(suffix) {\n    return htmlClassList.add(HTML_CLASS_I2SVG_BASE_CLASS + '-' + suffix);\n  }\n  var hclRemove = function hclRemove(suffix) {\n    return htmlClassList.remove(HTML_CLASS_I2SVG_BASE_CLASS + '-' + suffix);\n  }\n
  var prefixes = Object.keys(styles);\n  var prefixesDomQuery = ['.' + LAYERS_TEXT_CLASSNAME + ':not([' \n    + DATA_FA_I2SVG + '])'].concat(prefixes.map(function (p) {\n    return '.' + p + ':not([' + DATA_FA_I2SVG + '])';\n  })).join(', ');

  if (prefixesDomQuery.length === 0) {\n    return;\n  }\n
  var candidates = toArray(root.querySelectorAll(prefixesDomQuery));\n
  if (candidates.length > 0) {\n    hclAdd('pending');\n    hclRemove('complete');\n  } else {\n    return;\n  }\n
  var mark = perf.begin('onTree');\n
  var mutations = candidates.reduce(function (acc, node) {\n    try {\n      var mutation = generateMutation(node);\n
      if (mutation) {\n        acc.push(mutation);\n      }\n    } catch (e) {\n      if (!PRODUCTION) {\n        console.error(e);\n      }\n    }\n
    return acc;\n  }, []);\n
  mark();\n
  perform(mutations, function () {\n    hclAdd('active');\n    hclAdd('complete');\n    hclRemove('pending');\n
    if (typeof callback === 'function') callback();\n  });
params.classes,
  classes = _params$classes3 !== undefined ? _params$classes3 : params.classes,
  attributes = _params$attributes3 !== undefined ? _params$attributes3 : params.attributes,
  styles = _params$styles3 !== undefined ? _params$styles3 : params.styles,
  _params$classes3 = _params$classes3 === undefined ? [] : _params$classes3,
  _params$attributes3 = _params$attributes3 === undefined ? {} : _params$attributes3,
  _params$styles3 = _params$styles3 === undefined ? {} : _params$styles3;

return apiObject({ type: 'counter', content: content }, function () {
  ensureCss();

  return
    makeLayersCounterAbstract({
      content: content.toString(),
      title: title,
      extra: {
        attributes: attributes,
        styles: styles,
        classes: [config.familyPrefix + '-layers-counter'].concat(toConsumableArray(classes))
      }
    });
  });

var layer = function layer(assembler) {
  return apiObject({ type: 'layer' }, function () {
    ensureCss();

    var children = [];

    assembler(function (args) {
      Array.isArray(args) ? args.map(function (a) {
        children = children.concat(a.abstract);
      }) : children = children.concat(args.abstract);
    });

    return [{
      tag: 'span',
      attributes: { class: config.familyPrefix + '-layers' },
      children: children
    }];
  });

var api = {
  noAuto: noAuto,
  config: config,
  dom: dom,
  library: library,
  parse: parse,
  findIconDefinition: findIconDefinition,
  icon: icon,
  text: text,
  counter: counter,
  layer: layer,
  toHtml: toHtml
};

var autoReplace = function autoReplace() {
  var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

  var _params$autoReplaceSv = params.autoReplaceSvgRoot,
      autoReplaceSvgRoot = _params$autoReplaceSv === undefined ? DOCUMENT : _params$autoReplaceSv;

  if (Object.keys(namespace.styles).length > 0 && IS_DOM && config.autoReplaceSvg) api.dom.i2svg({ node: autoReplaceSvgRoot });

  return [{
    tag: 'span',
    attributes: { class: config.familyPrefix + '-layers-counter' },
    children: children
  }];

  var prefix = 'fas',
      iconName = 'share-alt',
      width = 448,
      height = 512,
      ligatures = [],
      unicode = 'f1e0',
      svgPathData = 'M352 320c-22.608 0-43.387 7.819-59.79 20.895l-102.486-64.054a96.551 96.551 0 0 0-41.683 41.683l102.486 64.054A96.551 96.551 0 0 0 352 416c0 53.019 42.981 96 96 96z';

  exports.definition = {
    prefix: prefix,
    iconName: iconName,
    icon: {
      width, height, ligatures, uncode, svgPathData
    }
  };

  exports.faShareAlt = exports.definition;
  exports.prefix = prefix;
  exports.iconName = iconName;
  exports.width = width;
  exports.height = height;
  exports.ligatures = ligatures;
  exports.unicode =

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```javascript
/**
 * Checks if a `cache` value for `key` exists.
 *
 * @private
 * @param {Object} cache The cache to query.
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function cacheHas(cache, key) {
  return cache.has(key);
}

module.exports = cacheHas;

var arrayReduce = require('./_arrayReduce'),
    baseEach = require('./_baseEach'),
    baseIteratee = require('./_baseIteratee'),
    baseReduce = require('./_baseReduce'),
    isArray = require('./isArray');

/**
 * Reduces `collection` to a value which is the accumulated result of running
 * each element in `collection` thru `iteratee`, where each successive
 * invocation is supplied the return value of the previous. If `'accumulator`
 * is not given, the first element of `'collection` is used as the initial
 * value. The iteratee is invoked with four arguments:
 * `(accumulator, value,
 * index|key, collection)`.
 *
 * Many lodash methods are guarded to work as iterates for methods like
 * `'_.reduce', `'_.reduceRight`, and `'_.transform`. The guarded methods are:
 * `'assign', `'defaults`, `'defaultsDeep`, `'includes`, `'merge`, `'orderBy`,
 * `'_.sortBy`, `null`, and `'_.sortBy
 * (accumulator)`. The method is invoked over `collection` at a value
 * which is the accumulated result of running
 * each element in `collection` thru `iteratee`, where each successive
 * invocation is supplied the return value of the previous. If `'accumulator`
 * is not given, the first element of `collection` is used as the initial
 * value. The iteratee is invoked with four arguments:
 * `(accumulator, value,
 * index|key, collection)`.
 *
 * Many lodash methods are guarded to work as iterates for methods like
 * `'_.reduce', `'_.reduceRight`, and `'_.transform`. The guarded methods are:
 * `'assign', `'defaults`, `'defaultsDeep`, `'includes`, `'merge`, `'orderBy`,
 * `'_.sortBy`, `null`, and `'_.sortBy
 * (accumulator). The method is invoked over
 * collection at a value which is the accumulated result of running
 * each element in `collection` thru `iteratee`, where each successive
 * invocation is supplied the return value of the previous. If `'accumulator`
 * is not given, the first element of `collection` is used as the initial
 * value. The iteratee is invoked with four arguments:
 * `(accumulator, value,
 * index|key, collection)`.
 *
 * The guarded methods are:
 * `'assign', `'defaults`, `'defaultsDeep`, `'includes`, `'merge`, `'orderBy`,
 * `'_.sortBy`
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Collection
 * @param {Array|Object} collection The collection to iterate over.
 * @param {Function} [iteratee=_identity] The function invoked per iteration.
 * @param {*} [accumulator]
 * @returns {*} Returns the accumulated value.
 * @see _.reduceRight
 * @example
 *
 * _.reduce([1, 2], function(sum, n) {
 *   return sum + n;
 * }, 0);
 * // => 3
 *
 * _.reduce({ 'a': 1, 'b': 2, 'c': 1 },
 * function(result, value, key) {
 *   (result[value] || (result[value] = [])).push(key);
 *   return result;
 * }, {});
 * //=> { 'a': ['a'], 'b': ['b'] }
 */
function reduce(collection, iteratee, accumulator)
{
  var func = isArray(collection) ? arrayReduce : baseReduce,
      initAccum = arguments.length < 3;

  return func(collection, baseIteratee(iteratee, 4), accumulator, initAccum, baseEach);
}

module.exports = reduce;
```

```javascript
// extracted by mini-css-extract-plugin
```
Object.defineProperty(require('./_dom-create')('div'), 'a', { get: function () { return 7; } }).a != 7;\n});\n","var
baseFlatten = require('./_baseFlatten'),\n baseOrderBy = require('./_baseOrderBy'),\n baseRest =
require('./_baseRest'),\n isIterateeCall = require('./_isIterateeCall');\n\n/**\n * Creates an array of elements, sorted
in ascending order by the results of\n * running each element in a collection thru each iteratee. This method\n *
performs a stable sort, that is, it preserves the original sort order of\n * equal elements. The iteratees are invoked
with one argument: (value).\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n * @category Collection\n *
@param {Array|Object} collection The collection to iterate over.\n * @param {...(Function|Function[])}
[iteratees=[_.identity]]\n * The iteratees to sort by.\n * @returns {Array} Returns the new sorted array.\n *
@example\n *\n * var users = [\n * { 'user': 'fred', 'age': 48 },\n * { 'user': 'barney', 'age': 36 },\n * { 'user': 'fred',
'age': 40 },\n * { 'user': 'barney', 'age': 34 }\n * ];\n *\n * _.sortBy(users, [function(o) { return o.user; }]);\n * // =>
objects for [['barney', 36], ['barney', 34], ['fred', 48], ['fred', 40]]\n *\n * _.sortBy(users, ['user', 'age']);\n * // =>
objects for [['barney', 34], ['barney', 36], ['fred', 40], ['fred', 48]]\n */\nvar sortBy = baseRest(function(collection,
iteratees) {\n if (collection == null) {\n return [];\n }\n var length = iteratees.length;\n if (length > 1 &&
isIterateeCall(collection, iteratees[0], iteratees[1])) {\n iteratees = [];\n } else if (length > 2 &&
isIterateeCall(iteratees[0], iteratees[1], iteratees[2])) {\n iteratees = [iteratees[0]];\n }\n return
baseOrderBy(collection, baseFlatten(iteratees, 1), []);\n});\n\nmodule.exports = sortBy;\n","var getNative =
require('./_getNative'),\n root = require('./_root');\n\n/* Built-in method references that are verified to be native.
*/\nvar Set = getNative(root, 'Set');\n\nmodule.exports = Set;\n","var g;\n\n// This works in non-strict mode\ng =
(function() {\n\treturn this;\n})();\n\ntry {\n\t// This works if eval is allowed (see CSP)\n\tg = g || Function(\"return
this\")() || (1, eval)(\"this\");\n} catch (e) {\n\t// This works if the window reference is available\n\tif (typeof window
=== \"object\") g = window;\n}\n\n// g can still be undefined, but nothing to do about it...\n// We return undefined,
instead of nothing here, so it's\n// easier to handle this case. if(!global) { ...}\n\nmodule.exports = g;\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","'use strict';\nvar addToUnscopables = require('./_add-tounscopables');\nvar step = require('./_iter-step');\nvar Iterators = require('./_iterators');\nvar toIObject =
require('./_to-iobject');\n\n// 22.1.3.4 Array.prototype.entries()\n// 22.1.3.13 Array.prototype.keys()\n// 22.1.3.29
Array.prototype.values()\n// 22.1.3.30 Array.prototype[@@iterator]()\nmodule.exports = require('./_iterdefine')(Array, 'Array', function (iterated, kind) {\n this._t = toIObject(iterated); // target\n this._i = 0;
//
next index\n this._k = kind;
// kind\n// 22.1.5.2.1 %ArrayIteratorPrototype%.next()\n}, function () {\n var
O = this._t;\n var kind = this._k;\n var index = this._i++;\n if (!O || index >= O.length) {\n this._t = undefined;\n
return step(1);\n }\n if (kind == 'keys') return step(0, index);\n if (kind == 'values') return step(0, O[index]);\n
return step(0, [index, O[index]]);\n}, 'values');\n\n// argumentsList[@@iterator] is %ArrayProto_values% (9.4.4.6,
9.4.4.7)\nIterators.Arguments =
Iterators.Array;\n\naddToUnscopables('keys');\naddToUnscopables('values');\naddToUnscopables('entries');\n","var
isSymbol = require('./isSymbol');\n\n/**\n * Compares values to sort them in ascending order.\n *\n * @private\n *
@param {*} value The value to compare.\n * @param {*} other The other value to compare.\n * @returns
{number} Returns the sort order indicator for `value`.\n */\nfunction compareAscending(value, other) {\n if (value
!== other) {\n var valIsDefined = value !== undefined,\n
valIsNull = value === null,\n
valIsReflexive =
value === value,\n
valIsSymbol = isSymbol(value);\n\n var othIsDefined = other !== undefined,\n
othIsNull = other === null,\n
othIsReflexive = other === other,\n
othIsSymbol = isSymbol(other);\n\n if
((!othIsNull && !othIsSymbol && !valIsSymbol && value > other) ||\n
(valIsSymbol && othIsDefined &&
othIsReflexive && !othIsNull && !othIsSymbol) ||\n
(valIsNull && othIsDefined && othIsReflexive) ||\n
(!valIsDefined && othIsReflexive) ||\n
!valIsReflexive) {\n
return 1;\n }\n if ((!valIsNull &&
!valIsSymbol && !othIsSymbol && value < other) ||\n
(othIsSymbol && valIsDefined && valIsReflexive &&
!valIsNull && !valIsSymbol) ||\n
(othIsNull && valIsDefined && valIsReflexive) ||\n
(!othIsDefined &&
valIsReflexive) ||\n
!othIsReflexive) {\n
return -1;\n }\n }\n return 0;\n}\n\nmodule.exports =
compareAscending;\n","var eq = require('./eq');\n\n/**\n * Gets the index at which the `key` is found in `array` of
key-value pairs.\n *\n * @private\n * @param {Array} array The array to inspect.\n * @param {*} key The key to

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search for:

```javascript
* @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;
```

```javascript
/*!
 * Font Awesome Free 5.0.13
 * by @fontawesome - https://fontawesome.com
 * License - https://fontawesome.com/license (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)
 */
var noop = function noop() {};

var _WINDOW = {};
var _DOCUMENT = {};
var _MUTATION_OBSERVER$1 = null;
var _PERFORMANCE = { mark: noop, measure: noop };

try {
  if (typeof window !== 'undefined') _WINDOW = window;
  if (typeof document !== 'undefined') _DOCUMENT = document;
  if (typeof MutationObserver !== 'undefined') _MUTATION_OBSERVER$1 = MutationObserver;
  if (typeof performance !== 'undefined') _PERFORMANCE = performance;
} catch (e) {}

var _ref = _WINDOW.navigator || {};
var _ref$userAgent = _ref.userAgent;
var userAgent = _ref$userAgent === undefined ? '' : _ref$userAgent;

var WINDOW = _WINDOW;
var DOCUMENT = _DOCUMENT;
var MUTATION_OBSERVER = _MUTATION_OBSERVER$1;
var PERFORMANCE = _PERFORMANCE;
var IS_BROWSER = !!WINDOW.document;
var IS_DOM = !!DOCUMENT.documentElement && !!DOCUMENT.head && typeof DOCUMENT.addEventListener === 'function' && typeof DOCUMENT.createElement === 'function';
var IS_IE = ~userAgent.indexOf('MSIE') || ~userAgent.indexOf('Trident/');

var NAMESPACE_IDENTIFIER = '___FONT_AWESOME___';
var UNITS_IN_GRID = 16;
var DEFAULT_FAMILY_PREFIX = 'fa';
var DEFAULT_REPLACEMENT_CLASS = 'svg-inline--fa';
var DATA_FA_I2SVG = 'data-fa-i2svg';
var DATA_FA_PSEUDO_ELEMENT = 'data-fa-pseudo-element';
var HTML_CLASS_I2SVG_BASE_CLASS = 'fontawesome-i2svg';

var PRODUCTION = function () {
  try {
    return process.env.NODE_ENV === 'production';
  } catch (e) {
    return false;
  }
}();

var oneToTen = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
var oneToTwenty = oneToTen.concat([11, 12, 13, 14, 15, 16, 17, 18, 19, 20]);

var ATTRIBUTES_WATCHED_FOR_MUTATION = ['class', 'data-prefix', 'data-icon', 'data-fa-transform', 'data-fa-mask'];
var RESERVED_CLASSES = ['xs', 'sm', 'lg', 'fw', 'ul', 'li', 'border', 'pull-left', 'pull-right', 'spin', 'pulse', 'rotate-90', 'rotate-180', 'rotate-270', 'flip-horizontal', 'flip-vertical', 'stack', 'stack-1x', 'stack-2x', 'inverse', 'layers', 'layers-text', 'layers-counter'];

var classCallCheck = function (instance, Constructor) {
  if (!(instance instanceof Constructor)) {
    throw new TypeError("Cannot call a class as a function");
  }
};

var toConsumableArray = function (arr) {
  if (Array.isArray(arr)) {
    for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) arr2[i] = arr[i];
    return arr2;
  } else {
    return Array.from(arr);
  }
};

var initial = WINDOW.FontAwesomeConfig || {};
var initialKeys = Object.keys(initial);

var _default = _extends({
  familyPrefix: DEFAULT_FAMILY_PREFIX,
  replacementClass: DEFAULT_REPLACEMENT_CLASS,
  autoReplaceSvg: true,
  autoAddCss: true,
  autoA11y: true,
  searchPseudoElements: false,
  observeMutations: true,
  keepOriginalSource: true,
  measurePerformance: false,
  showMissingIcons: true
}, initial);

if (!_default.autoReplaceSvg)
  _default.observeMutations = false;

var config$1 = _extends({}, _default);

WINDOW.FontAwesomeConfig = config$1;

function update(newConfig) {

  Object.keys(config$1).forEach(function (k) {
    if (k === 'sasNewDefault') {
      var ok = asNewDefault; return;
    }
    Object.defineProperty(config$1, k, {
      value: newConfig[k],
      enumerable: true,
      configurable: false
    });
    if (k === 'isBrowser') {
      WINDOW.FontAwesomeConfig = newConfig;
    }
  });

  var paramsSasNewDefault = params.sasNewDefault;
  if (paramsSasNewDefault) {
    Object.keys(paramsSasNewDefault).forEach(function (k) {
      if (k === 'isBrowser') {
        WINDOW.FontAwesomeConfig = newConfig;
      } else {
        Object.defineProperty(config$1, k, {
          value: paramsSasNewDefault[k],
          enumerable: true,
          configurable: false
        });
      }
    });
  }
```

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Object.keys(newConfig).forEach(function (configKey) {
  if (ok(configKey)) config$1[configKey] =
    newConfig[configKey];
});

var w = WINDOW || {};

if (!w[NAMESPACE_IDENTIFIER])
  w[NAMESPACE_IDENTIFIER] = {};

if (!w[NAMESPACE_IDENTIFIER].styles)
  w[NAMESPACE_IDENTIFIER].styles = {};

if (!w[NAMESPACE_IDENTIFIER].hooks)
  w[NAMESPACE_IDENTIFIER].hooks = {};

if (!w[NAMESPACE_IDENTIFIER].shims)
  w[NAMESPACE_IDENTIFIER].shims = [];

var namespace = w[NAMESPACE_IDENTIFIER];

var functions = [];
var listener = function listener() {
  DOCUMENT.removeEventListener('DOMContentLoaded', listener);
  loaded = 1;
  functions.map(function (fn) {
    return fn();
  });
};

var loaded = false;

if (IS_DOM) {
  loaded = (DOCUMENT.documentElement.doScroll ? /^loaded|^c/ : /^loaded|^i|^c/).test(DOCUMENT.readyState);
  if (!loaded)
    DOCUMENT.addEventListener('DOMContentLoaded', listener);
}

var domready = function (fn) {
  if (!IS_DOM) return;
  loaded ? setTimeout(fn, 0) : functions.push(fn);
};

var d = UNITS_IN_GRID;

var meaninglessTransform = {
  size: 16,
  x: 0,
  y: 0,
  rotate: 0,
  flipX: false,
  flipY: false
};

function isReserved(name) {
  return ~RESERVED_CLASSES.indexOf(name);
}

function bunker(fn) {
  try {
    fn();
  } catch (e) {
    if (!PRODUCTION) {
      throw e;
    }
  }
}

function insertCss(css) {
  if (!css || !IS_DOM) {
    return;
  }

  var style = DOCUMENT.createElement('style');
  style.setAttribute('type', 'text/css');
  style.innerHTML = css;

  var headChildren = DOCUMENT.head.childNodes;
  var beforeChild = null;

  for (var i = headChildren.length - 1; i > -1; i--) {
    var child = headChildren[i];
    var tagName = child.tagName || '').toUpperCase();
    if (['STYLE', 'LINK'].indexOf(tagName) > -1) {
      beforeChild = child;
    }
  }

  DOCUMENT.head.insertBefore(style, beforeChild);

  return css;
}

var _uniqueId = 0;

function nextUniqueId() {
  _uniqueId++;
  return _uniqueId;
}

function toArray(obj) {
  var array = [];

  for (var i = (obj || []).length >>> 0; i--;) {
    array[i] = obj[i];
  }

  return array;
}

function classArray(node) {
  if (node.classList) {
    return toArray(node.classList);
  } else {
    return (node.getAttribute('class') || '').split(' ').filter(function (i) {
      return i;
    });
  }
}

function getIconName(familyPrefix, cls) {
  var parts = cls.split('-');
  var prefix = parts[0];
  var iconName = parts.slice(1).join('-');

  if (prefix === familyPrefix && iconName !== '' && !isReserved(iconName)) {
    return iconName;
  } else {
    return null;
  }
}

function htmlEscape(str) {
  return ('' + str).replace(/&/g, '&amp;').replace(/"/g, '&quot;').replace(/'/g, '&#39;').replace(/</g, '&lt;').replace(/>/g, '&gt;');
}

function joinAttributes(attributes) {
  return Object.keys(attributes || {}).reduce(function (acc, attributeName) {
    return acc + (attributeName + '="' + htmlEscape(attributes[attributeName]) + '" ');
  }, '').trim();
}

function joinStyles(styles) {
  return Object.keys(styles || {}).reduce(function (acc, styleName) {
    return acc + (styleName + ': ' + styles[styleName] + ';');
  }, '');
}

function transformIsMeaningful(transform) {
  return transform.size !== meaninglessTransform.size || transform.x !== meaninglessTransform.x || transform.y !== meaninglessTransform.y || transform.rotate !== meaninglessTransform.rotate || transform.flipX || transform.flipY;
}

function transformForSvg(_ref) {
  var transform = _ref.transform,
      _ref$width = _ref.width,
      width = _ref$width === undefined ? UNITS_IN_GRID : _ref$width,
      _ref$height = _ref.height,
      height = _ref$height === undefined ? UNITS_IN_GRID : _ref$height,
      _ref$startCentered = _ref.startCentered,
      startCentered = _ref$startCentered === undefined ? false : _ref$startCentered;

  var val = '';

  if (startCentered && IS_IE) {
    val += 'translate(' + (transform.x / d - width / 2) + ' -' + (transform.y / d - height / 2) + ' /' + (transform.width / d - width) + ' /' + (transform.height / d - height) + ');';
  }

  return val;
}

function transformForCss(_ref2) {
  var transform = _ref2.transform,
      _ref2$width = _ref2.width,
      width = _ref2$width === undefined ? UNITS_IN_GRID : _ref2$width,
      _ref2$height = _ref2.height,
      height = _ref2$height === undefined ? UNITS_IN_GRID : _ref2$height,
      _ref2$startCentered = _ref2.startCentered,
      startCentered = _ref2$startCentered === undefined ? false : _ref2$startCentered;

  var val = '';

  if (startCentered && IS_IE) {
    val += 'translate(' + (transform.x / d - width / 2) + ' -' + (transform.y / d - height / 2) + ' /' + (transform.width / d - width) + ' /' + (transform.height / d - height) + ');';
  }

  return val;
}
content, {\n  prefix: prefix,\n  iconName: iconName,\n  main: main,\n  mask: mask, \n  transform: transform, \n  symbol: symbol,\n  styles: extra.styles\n});\n
var _ref2 = makeIconStandard(args),\n  children = _ref2.children,\n  attributes = _ref2.attributes;\n
if (symbol) {\n  return asSymbol(args);\n} else {\n  return asIcon(args);\n}\n\nfunction makeLayersTextAbstract(params) {\n  var content = params.content,\n      width = params.width,\n      height = params.height,\n      transform = params.transform,\n      title = params.title,\n      extra = params.extra,\n      _params$watchable2 = params.watchable,\n      watchable = _params$watchable2 ? \n        function noop() {} : \n        function p = config$1.measurePerformance & & PERFORMANCE & & PERFORMANCE.measure ? PERFORMANCE : \n        { mark: noop$2, measure: noop$2 };\n
  var preamble = 'FA "5.0.13"';\n
  var begin = function begin(name) {\n    p.mark(preamble + ' ' + name + ' begins');\n    return function () {\n      return end(name);
    };
  };\n
  var end = function end(name) {\n    p.mark(preamble + ' ' + name + ' ends');\n    p.measure(preamble + ' ' + name, preamble + ' ' + name + ' begins', preamble + ' ' + name + ' ends');\n  };\n
  var perf = { begin: begin, end: end };

  'use strict';\n
  /**\n   * # Reduce\n   *\n   * A fast object `.reduce()` implementation.\n   *\n   * @param  {Object}   subject   The object to reduce over.\n   * @param {Function} fn           The reducer function.\n   * @param  {mixed}    initialValue The initial value for the reducer, defaults to subject[0].\n   * @param  {Object}   thisContext  The context for the reducer.\n   * @return {mixed} The final result.\n   */\n
  var reduce = function fastReduceObject (subject, fn, initialValue, thisContext) {\n    var keys = Object.keys(subject),\n        length = keys.length,\n        iterator = thisContext !== undefined ? bindInternal4(fn, thisContext) : fn,
        i, key, result;\n
    if (initialValue === undefined) {\n      i = 1;\n      result = subject[keys[0]];\n    } else {\n      i = 0;\n      result = initialValue;
    }\n
    for (; i < length; i++) {\n      key = keys[i];\n      result = iterator(result, subject[key], key, subject);
    }\n
    return result;
  };\n
  var styles$1 = namespace.styles;\n
  var emptyCanonicalIcon = function emptyCanonicalIcon() {\n    return { prefix: null, iconName: null, styles: styles$1 };
  };\n
  function getCanonicalIcon(values) {\n    return values.reduce(function (acc, cls) {\n      var iconName = getIconName(config$1.familyPrefix, cls);

      if (styles$1[cls]) {\n        acc.prefix = cls;
      } else if (prefix === 'far' && hasRegular) {\n        var oldName = shim[0];\n        var var prefix = shim[1];\n        var var iconName = shim[2];\n        if (prefix === 'far' && hasRegular) {\n          prefix = 'fas';\n        }\n
      } else {\n        acc.prefix = cls;\n      }\n    }, { prefix: null, iconName: null, styles: styles$1 });
  }\n
  function byUnicode(prefix, unicode) {\n    return _byUnicode[prefix][unicode];
  }\n
  function byLigature(prefix, ligature) {\n    return _byLigature[prefix][ligature];
  }\n
  function byOldName(name) {\n    return _byOldName[name] || { prefix: null, iconName: null, styles: styles$1 };
  }\n
  function emptyCanonicalIcon() {\n    return { prefix: null, iconName: null, styles: styles$1 };
  }\n
  function getCanonicalIcon(values) {\n    return values.reduce(function (acc, cls) {\n      var var iconName = getIconName(config$1.familyPrefix, cls, cls);\n
      if (styles$1[cls]) {\n        acc.prefix = cls;\n      } else if (iconName) {\n        var var shim = acc.prefix === 'far' ? 'fa-' : byOldName(iconName): 0;\n        var acc.iconName = shim.iconName || iconName;\n        var acc.prefix = shim.prefix || acc.prefix;\n      } else if (cls === config$1.replacementClass && cls.indexOf('fa-w-') !== 0) {\n        acc
acc.rest.push(cls);

    }

    return acc;
  }, emptyCanonicalIcon());

function iconFromMapping(mapping, prefix, iconName) {
  if (mapping && mapping[prefix] && mapping[prefix][iconName]) {
    return {
      prefix: prefix,
      iconName: iconName,
    };
  } else {
    return null;
  }

function toHtml(abstractNodes) {
  var tag = abstractNodes.tag,
      attrib = abstractNodes.attrib,
      children = abstractNodes.children;

  if (typeof tag === 'string') {
    return htmlEscape(abstractNodes);  
  } else {
    return createElement(tag, attrib, children.map(toHtml));
  }

function toNode(abstractNodes, parent) {
  var tag = abstractNodes.tag,
      attrib = abstractNodes.attrib,
      children = abstractNodes.children;

  if (typeof tag === 'string') {
    return htmlEscape(abstractNodes);  
  } else {
    return createElement(tag, attrib, children.map(toNode));
  }

function perform(mutations, callback) {
  var callbackFunction = typeof callback === 'function' ? callback : noop$1;

  if (mutations.length === 0) {
    callbackFunction();
  } else {
    var frame = WINDOW.requestAnimationFrame || function (op) {
      return op();
    };

    frame(function () {
      var mutator = getMutator();
      var mark = perf.begin('mutate');

      mutations.map(mutator);

      mark();

      callbackFunction();
    });
  }
}

var disabled = false;

function disableObservation(operation) {
  disabled = true;
  operation();
  disabled = false;
}

var mo = null;

function observe(options) {
  if (!MUTATION_OBSERVER) return;

  var treeCallback = options.treeCallback,
      nodeCallback = options.nodeCallback,
      pseudoElementsCallback = options.pseudoElementsCallback;

  mo = new MUTATION_OBSERVER(function (objects) {
    if (disabled) return;

    objects.forEach(function (mutationRecord) {
      if (mutationRecord.type === 'childList' && mutationRecord.addedNodes.length > 0 &&
          !isWatched(mutationRecord.addedNodes[0]) &&
          config$1.searchPseudoElements) {
        pseudoElementsCallback(mutationRecord.target);
      }

      if (mutationRecord.type === 'attributes' &&
          isWatched(mutationRecord.target) &&
          ~ATTRIBUTES_WATCHED_FOR_MUTATION.indexOf(mutationRecord.attributeName)) {
        if (mutationRecord.attributeName === 'class') {
          var _getCanonicalIcon = getCanonicalIcon(classArray(mutationRecord.target),
              prefix = _getCanonicalIcon, prefix,
              iconName = _getCanonicalIcon, iconName,  
          if (prefix) mutationRecord.target.setAttribute('data-prefix', prefix);
          if (iconName) mutationRecord.target.setAttribute('data-icon', iconName);
        } else {
          nodeCallback(mutationRecord.target);  
        }
      }
    });
  });

  if (!IS_DOM) return;

  mo.observe(DOCUMENT.getElementsByTagName('body')[0], {
    childList: true, attributes: true, characterData:
true, subtree: true
})

function disconnect() {
  if (!mo) return;

  mo.disconnect();
}

function toHex(unicode) {
  var result = '';

  for (var i = 0; i < unicode.length; i++) {
    var hex = unicode.charCodeAt(i).toString(16);
    result += ('000' + hex).slice(-4);
  }

  return result;
}

var classParser = function (node) {
  var existingPrefix = node.getAttribute('data-prefix');
  var existingIconName = node.getAttribute('data-icon');
  var innerText = node.innerText !== undefined ? node.innerText.trim() : '';

  var val = getCanonicalIcon(classArray(node));

  if (existingPrefix && existingIconName) {
    val.prefix = existingPrefix;
    val.iconName = existingIconName;
  } else if (val.prefix && innerText.length > 1) {
    var iconName = byLigature(val.prefix, node.innerText);
  } else if (val.prefix && innerText.length === 1) {
    var iconName = byUnicode(val.prefix, toHex(node.innerText));
  }

  return val;
};

parseTransformString = function parseTransformString(transformString) {
  var transform = {
    size: 16,
    x: 0,
    y: 0,
    flipX: false,
    flipY: false,
    rotate: 0
  };

  if (!transformString) {
    return transform;
  } else {
    return transformString.toLowerCase().split(' ').reduce(function (acc, n) {
      var parts = n.toLowerCase().split('-');
      var first = parts[0];
      var rest = parts.slice(1).join('-');

      if (first && rest === 'h') {
        acc.flipX = true;
      } else if (first && rest === 'v') {
        acc.flipY = true;
      }

      rest = parseFloat(rest);

      switch (first) {
        case 'grow':
          acc.size = acc.size + rest;
          break;
        case 'shrink':
          acc.size = acc.size - rest;
          break;
        case 'left':
          acc.x = acc.x - rest;
          break;
        case 'right':
          acc.x = acc.x + rest;
          break;
        case 'up':
          acc.y = acc.y - rest;
          break;
        case 'down':
          acc.y = acc.y + rest;
          break;
        case 'rotate':
          acc.rotate = acc.rotate + rest;
          break;
        default:
          return acc;
      }
    }, transform);
  }

parseMeta = function (node) {
  var _classParser = classParser(node),
      iconName = _classParser.iconName,
      prefix = _classParser.prefix,
      extraClasses = _classParser.rest;

  var extraStyles = styleParser(node);
  var transform = transformParser(node.getAttribute('data-fa-transform'));

  return {
    iconName: iconName,
    title: node.getAttribute('title'),
    prefix: prefix,
    transform: transform,
    symbol: symbolParser(node),
    extra: extraAttributesParser(node),
    mask: maskParser(node),
    extra: extra;
  };
}

MissingIcon = function MissingIcon(error) {
  this.name = 'MissingIcon';
  this.message = error ? 'Icon unavailable' : 'Icon unavailable';
  this.stack = new Error().stack;
}

MissingIcon.prototype = Object.create(Error.prototype);

FILL = { fill: 'currentColor' };
ANIMATION_BASE = {
  attributeType: 'XML',
  repeatCount: 'indefinite',
  dur: '2s'
};
RING = {
  tag: 'path',
  attributes: _extends({},
    ANIMATION_BASE,
    FILL,
    { d: 'M156.5,447.7l-12.6,29.5c-18.7-9.5,35.9-21.2,51.5-34.9L40.6,272H8.5c1.4,21.2,7.1,41.7,11.5,61.5L321.2,447.5,c1.4,21.2,4.7,31.5,5.4,41.8,829,40.6L272,440L63,447.5L156.5,447.7z M40.6,240c1.4-18.8,5.2-37,11.7-54.1L64.3,156.5L397,419.6C115,92.4C29.4-22.3,46.1-30.4,46.1-30.4L397,419.6z M115,92.4

if (!IS_DOM) return;

  var end = perf.begin('searchPseudoElements');

  disableObservation(function () {
    var var styles = WINDOW.getComputedStyle(node, pos);
    var fontFamily = styles.getPropertyValue('font-family').match(FONT_FAMILY_PATTERN);
    var pseudoElement = children.filter(function (c) {
      return c.getAttribute(DATA_FA_PSEUDO_ELEMENT) === pos;
    })[0];
    if (pseudoElement) {
      if (pseudoElement.nextSibling &&
        pseudoElement.nextSibling.textContent.indexOf(DATA_FA_PSEUDO_ELEMENT) > -1) {
        remove(pseudoElement.nextSibling);
      }
    }
    var i = DOCUMENT.createElement('i');
    i.setAttribute('class', '' + STYLE_TO_PREFIX[fontFamily[1]]);
    i.setAttribute(DATA_FA_PSEUDO_ELEMENT, pos);
    i.innerText = content.length === 3 ? content.substr(1, 1) : content;
    if (pos === ':before') {
      node.insertBefore(i, node.firstChild);
    } else {
      node.appendChild(i);
    }
  });

  end();
}

function onTree(root) {
  if (!IS_DOM) return;
  var htmlClassList = DOCUMENT.documentElement.classList;
  var hclAdd = function hclAdd(suffix) {
    return htmlClassList.add(HTML_CLASS_I2SVG_BASE_CLASS + ' ' + suffix);
  };
  var hclRemove = function hclRemove(suffix) {
    return htmlClassList.remove(HTML_CLASS_I2SVG_BASE_CLASS + ' ' + suffix);
  };
  var prefixes = Object.keys(styles);
  var prefixesDomQuery = ['.' + LAYERS_TEXT_CLASSNAME + ':not([' + DATA_FA_I2SVG + '])'].concat(prefixes.map(function (p) {
    return '.' + p + ':not([' + DATA_FA_I2SVG + '])';
  })).join(', ');
  if (prefixesDomQuery.length === 0) {
    return;
  }
  var candidates = toArray(root.querySelectorAll(prefixesDomQuery));
  if (candidates.length > 0) {
    hclAdd('pending');
    hclRemove('complete');
  } else {
    return;
  }
  var mark = perf.begin('onTree');
  var mutations = candidates.reduce(function (acc, node) {
    try {
      var mutation = generateMutation(node);
      if (mutation) {
        acc.push(mutation);
      }
    } catch (e) {
      if (!PRODUCTION) {
        if (e instanceof MissingIcon) {
          console.error(e);
        }
      }
    }
    return acc;
  }, []);
  mark();
  perform(mutations, function () {
    hclAdd('active');
    hclAdd('complete');
    hclRemove('pending');
    if (typeof callback === 'function') callback();
  });
}

function onNode(node) {
  var mutation = generateMutation(node);
  if (mutation) {
    perform([mutation], callback);
  }
}

var baseStyles = "svg:not(:root).svg-inline--fa {
  overflow: visible; }

.svg-inline--fa {
  display: inline-block;
  font-size: inherit;
  height: 1em;
  vertical-align: -.125em; }\n
.svg-inline--fa-lg {\n  vertical-align: -.225em; }\n
.svg-inline--fa.fa-w-1 {\n  width: 0.0625em; }\n
.svg-inline--fa.fa-w-2 {\n  width: 0.125em; }\n
.svg-inline--fa.fa-w-3 {\n  width: 0.1875em; }\n
.svg-inline--fa.fa-w-4 {\n  width: 0.25em; }\n
.svg-inline--fa.fa-w-5 {\n  width: 0.3125em; }\n
.svg-inline--fa.fa-w-6 {\n  width: 0.375em; }\n
.svg-inline--fa.fa-w-7 {\n  width: 0.4375em; }\n
.svg-inline--fa.fa-w-8 {\n  width: 0.5em; }\n
.svg-inline--fa.fa-w-9 {\n  width: 0.5625em; }\n
.svg-inline--fa.fa-w-10 {\n  width: 0.625em; }\n
.svg-inline--fa.fa-w-11 {\n  width: 0.6875em; }\n
.svg-inline--fa.fa-w-12 {\n  width: 0.75em; }\n
.svg-inline--fa.fa-w-13 {\n  width: 0.8125em; }\n
.svg-inline--fa.fa-w-14 {\n  width: 0.875em; }\n
.svg-inline--fa.fa-w-15 {\n  width: 0.9375em; }\n
.svg-inline--fa.fa-w-16 {\n  width: 1em; }\n
.svg-inline--fa.fa-w-17 {\n  width: 1.0625em; }\n
.svg-inline--fa.fa-w-18 {\n  width: 1.125em; }\n
.svg-inline--fa.fa-w-19 {\n  width: 1.1875em; }\n
.svg-inline--fa.fa-w-20 {\n  width: 1.25em; }\n
.svg-inline--fa.fa-pull-left {\n  margin-right: .5em; }\n
.svg-inline--fa.fa-pull-right {\n  margin-left: .5em; }\n
.svg-inline--fa.border {\n  height: 1.5em; }\n
.svg-inline--fa.fa-li {\n  width: 2em; }\n
.svg-inline--fa.fa-fw {\n  width: 1.25em; }\n
.svg-inline--fa.fa-layers {\n  margin: auto; }\n
.svg-inline--fa.fa-border {\n  margin: auto; }\n
.svg-inline--fa.fa-position {\n  position: absolute; }\n
.svg-inline--fa.fa-display {\n  display: inline-block; }\n
.svg-inline--fa.fa-text-align {\n  text-align: center; }\n
.svg-inline--fa.fa-transform-origin {\n  transform-origin: center center; }\n
.svg-inline--fa.fa-layers-text, .fa-layers-counter {\n  display: inline-block; }\n
.svg-inline--fa.fa-position {\n  position: absolute; }\n
.svg-inline--fa.fa-text-align {\n  text-align: center; }\n
.svg-inline--fa.fa-layers-text {\n  left: 50%; }\n
.svg-inline--fa.fa-position {\n  top: 50%; }\n
.svg-inline--fa.fa-transform-origin: translateX(-50%); -
focusable:focus {\n  clip: auto;\n  height: auto;\n  margin: 0;\n  overflow: visible;\n  position: static;\n  width: auto;\n}\n\nvar css = function () {\n  var dfp = DEFAULT_FAMILY_PREFIX;\n  var drc = DEFAULT_REPLACEMENT_CLASS;\n  var sf = baseStyles;\n  if (fp !== dfp || re !== drc) {\n    var dPatt = new RegExp('\\.' + dfp + '\-', 'g');\n    var rPatt = new RegExp('\\.' + drc, 'g');\n    sf = sf.replace(dPatt, '.' + fp + '-').replace(rPatt, '.' + rc);\n  }\n  return sf;\n};\n
var css = function () {\n  var dfp = DEFAULT_FAMILY_PREFIX;\n  var drc = DEFAULT_REPLACEMENT_CLASS;\n  var fp = config$1.familyPrefix;\n  var rc = config$1.replacementClass;\n  var s = baseStyles;\n
  if (fp !== dfp || rc !== drc) {\n    var dPatt = new RegExp('\\.' + dfp + '\-', 'g');\n    var rPatt = new RegExp('\\.' + drc, 'g');\n
    s = s.replace(dPatt, '.' + fp + '-').replace(rPatt, '.' + rc);\n  }\n
  return s;\n};\n
function define(prefix, icons) {\n  var normalized = Object.keys(icons).reduce(function (acc, iconName) {\n    var icon = icons[iconName];\n    var expanded = !!icon.icon;\n
    if (expanded) {\n      acc[icon.iconName] = icon.icon;\n    } else {\n      acc[iconName] = icon;\n    }\n    return acc;\n  }, {});\n
  if (typeof namespace.hooks.addPack === 'function') {\n    namespace.hooks.addPack(prefix, normalized);\n  } else {\n    namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {}, normalized);\n  }\n
  /**\n   * Font Awesome 4 used the prefix of `fa` for all icons. With the introduction of new styles we needed to differentiate between them. Prefix `fa` is now an alias for `fas` so we’ll ease the upgrade process for our users by automatically defining `*` this as well.\n   */\n  if (prefix === '*') {\n    define('fa', icons);\n  }\n}

var Library = function () {\n  function Library() {
    classCallCheck(this, Library);

    this.definitions = {};
  }

  createClass(Library, [{\n    key: 'add',\n    value: function add() {
      var _this = this;

      for (var _len = arguments.length, definitions = Array(_len), _key = 0; _key < _len; _key++) {\n        definitions[_key] = arguments[_key];\n      }

      var additions = definitions.reduce(this._pullDefinitions, {});

      Object.keys(additions).forEach(function (key) {\n        _this.definitions[key] = _extends({}, _this.definitions[key] || {}, additions[key]);\n        define(key, additions[key]);\n      });\n    }\n  }, {\n    key: 'reset',\n    value: function reset() {
      this.definitions = {};
    }\n  }, {\n    key: '_pullDefinitions',\n    value: function _pullDefinitions(additions, definition) {\n      var normalized = definition.prefix && definition.iconName && definition.icon ? { 0: definition } : definition;\n
      Object.keys(normalized).map(function (key) {\n        var _normalized$key = normalized[key], \n            prefix = _normalized$key.prefix, \n            iconName = _normalized$key.iconName, \n            icon = _normalized$key.icon;\n
        if (!additions[prefix]) additions[prefix] = {};

        additions[prefix][iconName] = icon;\n      });\n
      return Library();\n    }\n  });\n
  return Library();\n};\n
var noAuto = function noAuto() {\n  auto(false);\n  disconnect();\n};\n
var dom = {\n  i2svg: function i2svg() {\n    var params = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};

    if (IS_DOM) {\n      ensureCss();\n
      var _params$node = params.node, \n          node = _params$node === undefined ? DOCUMENT : _params$node, \n          _params$callback = params.callback, \n          callback = _params$callback === undefined ? function () {} : _params$callback;

      if (config$1.autoAddCss) {\n        return;\n      }\n
      onTree(node, callback);
    }
  },\n
  css: css,\n
  insertCss: \n}
function insertCss$1() {
  insertCss(css());
}

var parse = {
  transform: function
    transform(transformString) {
      return parseTransformString(transformString);
    }
};

var icon = resolveIcons(function (iconDefinition) {
  var params = arguments.length > 1 &&

  var transform = params.transform !== undefined ?
    params.transform : meaninglessTransform;

  return apiObject({
    type: 'icon',
    iconDefinition, function ()
      ensureCss();
      if (config$1.autoA11y)
        if (title)
          if (attributes['aria-labelledby'] = config$1.replaceClass + '
            -title_' + nextUniqueId();
          else
            attributes['aria-hidden'] = 'true';

      return makeInlineSvgAbstract();
    }
    icon = iconDefinition.iconName;
    icon = iconDefinition.icon;
    return apiObject(_,
      extra: { type: 'icon' },
      attributes: attributes, styles: styles, classes: classes
    });
  };

  var modifier = function (modifierString) {
    return parseTransformString(modifierString);
  }

  var layer = function (layerFunction) {
    return apiObject({
      type: 'layer',
      children: children
    });
  }

  var api$1 = {
    noAuto: noAuto,
    dom: dom,
    library: library,
    parse: parse,
    transform: transform,
    title: title,
    extra: { type: 'text' },
    function ()
      ensureCss();
      return makeLayersTextAbstract();
    }
  }

  var autoReplace = function () {
    if (IS_DOM && config$1.autoReplace) {
      api$1.dom.i2svg({ node: DOCUMENT });
    }

    domready(function () {
      if (Object.keys(namespace.styles).length > 0) {
        autoReplace();
      }

      if (config$1.observeMutations &&
        typeof MutationObserver === 'function') {
        observe({
          treeCallback: onTree,
          nodeCallback: onNode,
          parentCallback: searchPseudoElements
        });
      }
    });
  }

  namespace.hooks = _extends({}, namespace.hooks, {
    addPack: function addPack(prefix, icons) {
      namespace.styles[prefix] = _extends({}, namespace.styles[prefix] || {}, icons);
      build();
    }
  });
}

Object.defineProperty(api$1, 'config', {
  get: function get() {
    return config$1;
  },
  set: function set(newConfig) {
    update(newConfig);
  }
});

if (IS_DOM) bunker(bootstrap);

var config = api$1.config;

export { config, icon, noAuto, layer, text, library, dom, parse,
    transform, findIconDefinition };
export default api$1;

var isObject = require('./_is-object');
module.exports = function

(it) {\n  if (isObject(it)) throw TypeError(it + ' is not an object!');\n  return it;\n};
map.prototype.object
* 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.
*
* @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.
*
* `_.memoize` takes two optional arguments: the `func` parameter returns
* the output memoized and the second parameter is the resolver which is
* used to resolve the cache key.
*
* ```javascript
* var object = { 'a': 1, 'b': 2 };
*
* var memoized = _.memoize(_.findKey, function(key, value) {
*   return value === 2;
* });
*
* memoized(object); // => 'b'
* ```
*
* The memoized function can be reused without being called directly.
*
* ```javascript
* var add = _.memoize(function(a, b) {
*   return a + b;
* });
*
* add(2, 3); // => 5
* ```
*
* Memoizing lookup functions from `lodash` can significantly speed up code
* execution with repeated calls to the same cache key. Consider a
* function to check if a value is present in a collection. Without memoizing
* the lookup, repeated calls will greatly slow down the application.
*
* ```javascript
* var inCache = false;
* var collection = [{
*   'key': 1
* }, { 'key': 2 }];
* var key = 1;
* var result = inCache ? collection[0] : _.find(collection, function(obj) {
*   return obj.key === key;
* });
* ```
*
* The lookup is performed using `_.find`, which checks each element of
* the collection for a match. Parts of the collection may reuse the same
* objects. Without memoizing the lookup function, the same elements are
* repeatedly looked up and searched. By memoizing the lookup function,
* subsequent calls will cache the lookup result and return a cached value
* instead.
*
* ```javascript
* var inCache = false;
* var collection = [{
*   'key': 1
* }, { 'key': 2 }];
* var key = 1;
* var result = inCache ? collection[0] : _.memoize(_.find(collection, function(obj) {
*   return obj.key === key;
* }))(key); // => { 'key': 1 }
* ```
*
map.forEach(function(value, key) {
    result[++index] = [key, value];
  });
  return result;
}

module.exports = mapToArray;

'\"use strict\";
Object.defineProperty(exports, '__esModule', { value: true });
var prefix = 'fas';
var iconName = 'code';
var width = 640;
var height = 512;
var ligatures = [];
var unicode = 'f121';
var svgPathData = 'M278.9 511.5-61.7c-7.6c-4.8-10.8-9.5-5.8-14.9L346.2 8.7c1.8-6.4 8.5-10 14.9-8.2L176 7.6c4.8-9.5 10.8-6.4 14.9-2.1'.trim();

exports.definition = {
  prefix: prefix,
  iconName: iconName,
  icon: [
    width,
    height,
    ligatures,
    unicode,
    svgPathData
  ];

exports.faCode = exports.definition;
exports.prefix = prefix;
exports.iconName = iconName;
exports.width = width;
exports.height = height;
exports.ligatures = ligatures;
exports.unicode = unicode;
exports.svgPathData = svgPathData;

/**
 * The base implementation of \_\_property without support for deep paths.
 * @param {string} key The key of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function baseProperty(key) {
  return function(object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;

var ListCache = require('./_ListCache');

/**
 * 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;

/**!
 * @fileOverview Kickass library to create and place poppers near their reference elements.
 * @version 1.14.5
 * @license
 * Copyright (c) 2016 Federico Zivolo and contributors
 *
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 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
var isBrowser = typeof window !== 'undefined' && typeof document !== 'undefined';

var longerTimeoutBrowsers = ['Edge', 'Trident', 'Firefox'];
var timeoutDuration = 0;
for (var i = 0; i < longerTimeoutBrowsers.length; i += 1) {
  if (isBrowser && navigator.userAgent.indexOf(longerTimeoutBrowsers[i]) >= 0) {
    timeoutDuration = 1;
    break;
  }
}

function microtaskDebounce(fn) {
  var called = false;
  return function () {
    if (called) {
      return;
    }
    called = true;
    window.Promise.resolve().then(function () {
      called = false;
      fn();
    });
  };
}

function taskDebounce(fn) {
  var scheduled = false;
  return function () {
    if (!scheduled) {
      scheduled = true;
      setTimeout(function () {
        scheduled = false;
        fn();
      }, timeoutDuration);
    }
  };
}

var supportsMicroTasks = isBrowser && window.Promise;

/**
 * Create a debounced version of a method, that's asynchronously deferred but called in the minimum time possible.
 * @method
 * @memberof Popper.
 */
function debounce(method, undo) {
  return function() {
    if (undo) {
      method();
    } else {
      var args = arguments;
      setTimeout(function() {
        method.apply(this, args);
      }, 0);
    }
  };
}

/**
 * Check if the given variable is a function
 * @method
 * @memberof Popper.
 */
function isFunction(functionToCheck) {
  var getType = {};
  return typeof functionToCheck === '
\[object Function\]';
}

/**
 * Get CSS computed property of the given element
 * @method
 * @memberof Popper.
 */
function getStyleComputedProperty(element, property) {
  if (element.nodeType !== 1) {
    return 
\['\];
  }
  // NOTE: 1 DOM access here
  var win window =

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element.ownerDocument.defaultView;\n  var css = window.getComputedStyle(element, null);\n  return property ? css[property] : css[null];\n}

@method\n\nvar getScrollParent = function getScrollParent(element) {\n  return element === null ? document.body : getScrollParent(element.parentNode);
};

/**
 * Returns the parentNode or the host of the element\n * @method\n * @memberof Popper.Utils\n * @argument {Element} element\n * @returns {Element} parent\n */
function getParentNode(element) {
  if (element.nodeName === 'HTML') {
    return element;
  }
  return element.parentNode || element.host;
}

/**
 * Returns the scrolling parent of the given element\n * @method\n * @memberof Popper.Utils\n * @argument {Element} element\n * @returns {Element} scroll parent\n */
function getScrollParent(element) {
  // Return body, 'getScroll' will take care to get the correct 'scrollTop' from it\n  if (element) {\n    return document.body;\n  }\n  switch (element.nodeName) {\n    case 'HTML': \n      return element.ownerDocument.body;\n    case 'BODY': \n      return element.parentNode || element.host;\n  }\n  \n  // Firefox want us to check `-x` and `-y` variations as well\n  var _getStyleComputedProp = getStyleComputedProperty(element),\n      overflow = _getStyleComputedProp.overflow,\n      overflowX = _getStyleComputedProp.overflowX,\n      overflowY = _getStyleComputedProp.overflowY;\n
  if (/(auto|scroll|overlay)/.test(overflow + overflowY + overflowX)) {\n    return element;\n  }\n  return getScrollParent(getParentNode(element));\n}

var isIE11 = isBrowser && !!(window.MSInputMethodContext && document.documentMode);\nvar isIE10 = isBrowser && /MSIE 10/.test(navigator.userAgent);

/**
 * Returns the offset parent\n * @method\n * @memberof Popper.Utils\n * @argument {Element} element\n * @returns {Element} offset parent\n */
function getOffsetParent(element) {
  if (!element) {\n    return document.documentElement;\n  }\n
  var noOffsetParent = isIE(10) ? document.body : null;\n  \n  // NOTE: 1 DOM access here\n  var offsetParent = element.offsetParent || null;\n  \n  // Skip hidden elements which don't have an offsetParent\n  while (offsetParent !== null && offsetParent.nodeType) {\n    offsetParent = element.createElementNextSibling(offsetParent);\n  }\n
  var nodeName = offsetParent.nodeName;\n
  if (nodeName === 'BODY' || nodeName === 'HTML') {\n    return \n
    // one of the nodes is inside shadowDOM, find which one\n    var offsetParent = element.shadowRoot;\n
    // avoid errors in case one of the elements isn't defined for any reason\n    if (element1.nodeName !== element2.nodeName) {\n      return false;\n    }\n
    // Get common ancestor container\n    var commonAncestorContainer = range.commonAncestorContainer;\n    // Both nodes are inside #document\n    if (element1 === commonAncestorContainer && element2 === commonAncestorContainer) {\n      return range.getScrollParent(commonAncestorContainer);\n    }\n  }\n
  // This check is needed to avoid errors in case one of the elements isn't defined for any reason\n  if (element1.nodeName !== element2.nodeName) {\n    return false;\n  }\n
  // Here we make sure to give as "start" the element that comes first in the DOM\n  var order = element.compareDocumentPosition(element2) & Node.DOCUMENT_POSITION_FOLLOWING;\n  if (order !== Node.DOCUMENT_POSITION_FOLLOWING) {\n    node = element1;\n    if (start) {\n      node = element2;\n    }\n  }\n
  var range = document.createRange();\n  range.setStart(element.startContainer, 0);\n  range.setEnd(element.endContainer, 0);\n
  var commonAncestorContainer = range.commonAncestorContainer;\n  // Get common ancestor container\n  if (commonAncestorContainer) {\n    return commonAncestorContainer;\n  }\n
  return range.getCommonAncestorContainer(commonAncestorContainer);\n
```javascript
findCommonOffsetParent(element1.root.host, element2);
}

/**
 * Gets the scroll value of the given element in the given side (top and
 * left) * @method
 * @memberof Popper.Utilities
 * @param {Element} element1 * @param {Element} element2 * @returns {number} amount of scrolled pixels
 */
function getScroll(element) {
  var upperSide = side === 'top' ? 'scrollTop' : 'scrollLeft';
  var nodeName = element.nodeName;

  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return element.ownerDocument.documentElement.scrollTop;
  } else {
    return findCommonOffsetParent(element1.getRoot(element2).host);
  }
}

/**
 * Gets the scroll value of the given element in the given side (top and
 * left) * @method
 * @memberof Popper.Utilities
 * @param {Object} rect - Rect object you want to change
 * @param {Element} element - The element from the function reads the scroll values
 * @param {Boolean} subtract - set to true if you want to subtract the scroll values
 * @return {Object} rect - The modifier rect object
 */
function includeScroll(rect, element) {

  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');

  var modifier = subtract ? -1 : 1;
  var rect.top += scrollTop * modifier; rect.bottom += scrollTop * modifier; rect.left += scrollLeft * modifier; rect.right += scrollLeft * modifier; rect[upperSide] = rect[upperSide] - modifier;

  rect[innerSide] += getBordersSize(element, innerSide);

  return rect;
}

/**
 * Helper to detect borders of a given element
 * @method
 * @memberof Popper.Utilities
 * @param {Object} styles - Result of `getStyleComputedProperty` on the given element
 * @param {String} axis - 'x' or 'y'
 * @returns {number} borders - The borders size of the given axis
 */
function getBordersSize(styles, axis) {
  var sideA = axis === 'x' ? 'Left' : 'Top';
  var sideB = sideA === 'Left' ? 'Right' : 'Bottom';

  return parseFloat(styles['border' + sideA + 'Width'], 10) + parseFloat(styles['border' + sideB + 'Width'], 10);
}

function getSize(axis, body, html, computedStyle) {
  return Math.max(body['offset' + axis], body['scroll' + axis], html['client' + axis], html['offset' + axis], html['scroll' + axis], isIE(10) ? parseInt(html['offset' + axis]) + parseInt(computedStyle['margin' + (axis === 'Height' ? 'Top' : 'Left')]) : 0), html['scrollWindow'], document.documentElement.clientWidth, document.documentElement.clientHeight, isIE(10) && getComputedStyle(html)), html['scrollWindow'], document.documentElement.clientWidth, document.documentElement.clientHeight, isIE(10) && getComputedStyle(html)), html['scrollWindow'], document.documentElement.clientWidth, document.documentElement.clientHeight, isIE(10) && getComputedStyle(html));

  return {
    height: getSize('Height', body, html, computedStyle),
    width: getSize('Width', body, html, computedStyle)
  };
}

var classCallCheck = function (instance, Constructor) {
  if (!(instance instanceof Constructor)) {
    throw new TypeError("Cannot call a class as a function");
  }
};

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;
  };}

var defineProperty = function (obj, key, value) {
  if (key in obj) {
    Object.defineProperty(obj, key, { enumerable: true, configurable: true, writable: true });
  } else {
    obj[key] = value;
  }
}

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;
};

/**
 * Given element offsets, generate an output similar to getBoundingClientRect
 * @method
 * @memberof Popper.Utilities
 * @param {Object} offsets
 * @returns {Object} ClientRect like output
 */
function getClientRect(offsets) {
  return _extends({}, offsets, {
    right: offsets.left + offsets.width,
    bottom: offsets.top + offsets.height
  });
}
```

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scrollLeft;\n
rect.bottom += scrollTop;\n
rect.right += scrollLeft;\n } else {\n
rect =
element.getBoundingClientRect();\n }\n } catch (e) {}\n\n var result = {\n left: rect.left,\n top: rect.top,\n
width: rect.right - rect.left,\n height: rect.bottom - rect.top\n };\n\n // subtract scrollbar size from sizes\n var sizes
= element.nodeName === 'HTML' ? getWindowSizes(element.ownerDocument) : {};\n var width = sizes.width ||
element.clientWidth || result.right - result.left;\n var height = sizes.height || element.clientHeight || result.bottom result.top;\n\n var horizScrollbar = element.offsetWidth - width;\n var vertScrollbar = element.offsetHeight height;\n\n // if an hypothetical scrollbar is detected, we must be sure it's not a `border`\n // we make this check
conditional for performance reasons\n if (horizScrollbar || vertScrollbar) {\n var styles =
getStyleComputedProperty(element);\n horizScrollbar -= getBordersSize(styles, 'x');\n vertScrollbar -=
getBordersSize(styles, 'y');\n\n result.width -= horizScrollbar;\n result.height -= vertScrollbar;\n }\n\n return
getClientRect(result);\n}\n\nfunction getOffsetRectRelativeToArbitraryNode(children, parent) {\n var fixedPosition
= arguments.length > 2 && arguments[2] !== undefined ? arguments[2] : false;\n\n var isIE10 = isIE(10);\n var
isHTML = parent.nodeName === 'HTML';\n var childrenRect = getBoundingClientRect(children);\n var
parentRect = getBoundingClientRect(parent);\n var scrollParent = getScrollParent(children);\n\n var styles =
getStyleComputedProperty(parent);\n var borderTopWidth = parseFloat(styles.borderTopWidth, 10);\n var
borderLeftWidth = parseFloat(styles.borderLeftWidth, 10);\n\n // In cases where the parent is fixed, we must ignore
negative scroll in offset calc\n if (fixedPosition && isHTML) {\n parentRect.top = Math.max(parentRect.top,
0);\n parentRect.left = Math.max(parentRect.left, 0);\n }\n var offsets = getClientRect({\n top: childrenRect.top
- parentRect.top - borderTopWidth,\n left: childrenRect.left - parentRect.left - borderLeftWidth,\n width:
childrenRect.width,\n height: childrenRect.height\n });\n offsets.marginTop = 0;\n offsets.marginLeft = 0;\n\n //
Subtract margins of documentElement in case it's being used as parent\n // we do this only on HTML because it's
the only element that behaves\n // differently when margins are applied to it. The margins are included in\n // the
box of the documentElement, in the other cases not.\n if (!isIE10 && isHTML) {\n var marginTop =
parseFloat(styles.marginTop, 10);\n var marginLeft = parseFloat(styles.marginLeft, 10);\n\n offsets.top -=
borderTopWidth - marginTop;\n offsets.bottom -= borderTopWidth - marginTop;\n offsets.left -=
borderLeftWidth - marginLeft;\n offsets.right -= borderLeftWidth - marginLeft;\n\n // Attach marginTop and
marginLeft because in some circumstances we may need them\n offsets.marginTop = marginTop;\n
offsets.marginLeft = marginLeft;\n }\n\n if (isIE10 && !fixedPosition ? parent.contains(scrollParent) : parent ===
scrollParent && scrollParent.nodeName !== 'BODY') {\n offsets = includeScroll(offsets, parent);\n }\n\n return
offsets;\n}\n\nfunction getViewportOffsetRectRelativeToArtbitraryNode(element) {\n var excludeScroll =
element.ownerDocument.documentElement;\n var relativeOffset =
getOffsetRectRelativeToArbitraryNode(element, html);\n var width = Math.max(html.clientWidth,
window.innerWidth || 0);\n var height = Math.max(html.clientHeight, window.innerHeight || 0);\n\n var scrollTop
= !excludeScroll ? getScroll(html) : 0;\n var scrollLeft = !excludeScroll ? getScroll(html, 'left') : 0;\n\n var offset =
{\n top: scrollTop - relativeOffset.top + relativeOffset.marginTop,\n left: scrollLeft - relativeOffset.left +
relativeOffset.marginLeft,\n width: width,\n height: height\n };\n\n return getClientRect(offset);\n}\n\n/**\n *
Check if the given element is fixed or is inside a fixed parent\n * @method\n * @memberof Popper.Utils\n *
@argument {Element} element\n * @argument {Element} customContainer\n * @returns {Boolean} answer to
\"isFixed?\"\n */\nfunction isFixed(element) {\n var nodeName = element.nodeName;\n if (nodeName ===
'BODY' || nodeName === 'HTML') {\n return false;\n }\n if (getStyleComputedProperty(element, 'position') ===
'fixed') {\n return true;\n }\n return isFixed(getParentNode(element));\n}\n\n/**\n * Finds the first parent of an
element that has a transformed property defined\n * @method\n * @memberof Popper.Utils\n * @argument
{Element} element\n * @returns {Element} first transformed parent or documentElement\n */\n\nfunction
getFixedPositionOffsetParent(element) {\n // This check is needed to avoid errors in case one of the elements isn't
defined for any reason\n if (!element || !element.parentElement || isIE()) {\n return document.documentElement;\n
}\n var el = element.parentElement;\n while (el && getStyleComputedProperty(el, 'transform') === 'none') {\n el
= el.parentElement;\n }\n return el || document.documentElement;\n}\n\n/**\n * Computed the boundaries limits

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and return them

```javascript
and return them

```
**Get the outer sizes of the given element (offset size + margins)**

```javascript
commonOffsetParent, fixedPosition);\n\n\n\n\n
```
attributes: {}, flipped: false, offsets: {} });

// compute reference element offsets
data.offsets.reference = getReferenceOffsets(this.state, this.popper, this.reference, this.options.positionFixed);

// compute auto placement, store placement inside the data object, modifiers will be able to edit `placement` if needed
if (this.state.isCreated) {
  this.options.onCreate(data);
} else {
  this.options.onUpdate(data);
}

/**
 * Helper used to know if the given modifier is enabled.
 * @method
 * @memberof Popper.Utils
 * @returns {Boolean}
 */
function isModifierEnabled(modifiers, modifierName) {
  return modifiers.some(function (_ref) {
    var name = _ref.name,
        enabled = _ref.enabled;
    return enabled && name === modifierName;
  });
}

/**
 * Get the prefixed supported property name
 * @method
 * @memberof Popper.Utils
 * @argument {String} property (camelCase)
 * @returns {String} prefixed property (camelCase or PascalCase, depending on the vendor prefix)
 */
function getSupportedPropertyName(property) {
  var prefixes = ['false', 'ms', 'Webkit', 'Moz', 'O'];
  var upperProp = property.charAt(0).toUpperCase() + property.slice(1);
  for (var i = 0; i < prefixes.length; i++) {
    var prefix = prefixes[i];
    var toCheck = prefix ? '' + prefix + upperProp : property;
    if (typeof document.body.style[toCheck] !== 'undefined') {
      return toCheck;
    }
  }
  return null;
}

/**
 * Destroys the popper.
 * @method
 * @memberof Popper
 */
function destroy() {
  this.state.isDestroyed = true;

  if (isModifierEnabled(this.modifiers, 'applyStyle')) {
    this.popper.removeAttribute('x-placement');
    this.popper.style.position = '';
    this.popper.style.top = '';
    this.popper.style.left = '';
    this.popper.style.right = '';
    this.popper.style.bottom = '';
    this.popper.style.willChange = '';
    this.popper.style[getSupportedPropertyName('transform')] = '';
  }

  this.disableEventListeners();

  if (this.options.removeOnDestroy) {
    this.popper.parentNode.removeChild(this.popper);
  }
  return this;
}

/**
 * Setup needed event listeners used to update the popper position
 * @method
 * @memberof Popper.Utils
 * @private
 */
function setupEventListeners(reference, options, state, updateBound) {
  // Resize event listener on window
  state.updateBound = updateBound;
  getWindow(reference).addEventListener('resize', state.updateBound, { passive: true });

  // Scroll event listener on scroll parents
  var scrollParents = this.getScrollParents(this.reference);
  var isBody = scrollParents.include(document.body);

  if (isBody) {
    state.scrollParents.push(target); 
  }

  // Setup needed event listeners to update the popper position
  /* @method */
  state.updateListeners = setupEventListeners(reference, options, state, updateBound);
scroll parents
  state.scrollParents.forEach(function (target) {
    target.removeEventListener('scroll', state.updateBound);
  });

  // Reset state
  state.updateBound = null;
  state.scrollParents = [];

state.scrollElement = null;
state.eventsEnabled = false;
return state;

/**
 * It will remove resize/scroll events and won't recalculate popper position
 * when they are triggered. Also it won't trigger 'onUpdate' callback anymore.
 * unless you call 'update' method manually.
 */
@method
@memberof Popper
@function disableEventListeners()
@returns {undefined}
@infunc return

/**
 * @method
 * @memberof Popper
 */
function disableEventListeners() {
  if (this.state.eventsEnabled) {
    cancelAnimationFrame(this.scheduleUpdate);
    this.state = removeEventListeners(this.reference, this.state);
  }
}

/**
 * Tells if a given input is a number
 */
function isNumeric(n) {
  return n !== '' && !isNaN(parseFloat(n)) && isFinite(n);
}

/**
 * Set the style to the given popper
 */
@method
@memberof Popper
@argument {Object} style
@returns {undefined}
@infunc return

/**
 * Set the attributes to the given popper
 */
@method
@memberof Popper
@argument {Object} attributes
@returns {undefined}
@infunc return

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} data.styles - List of style properties - values to apply to popper element
 * @argument {Object} data.attributes - List of attribute properties - values to apply to popper element
 * @returns {Object} The same data object
 */
function applyStyle(data) {
  // any property present in `data.styles` will be applied to the popper,
  // in this way we can make the 3rd party modifiers add custom styles to it
  // Be aware, modifiers could override the properties defined in the previous
  // lines of this modifier!
  setStyles(data.instance.popper, data.styles);
  setAttributes(data.instance.popper, data.attributes);
  if (data.arrowElement && Object.keys(data.arrowStyles).length) {
    setStyles(data.arrowElement, data.arrowStyles);
  }
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} data.styles - List of style properties - values to apply to popper element
 * @argument {Object} data attributes - List of attribute properties - values to apply to popper element
 * @returns {Object} The same data object
 */
function computeStyle(data, options) {
  var x = options.x,
      y = options.y;
  var popper = data.offsets.popper;

  // Remove this legacy support in Popper.js v2
  if (x) {
    return options.styles.x;
  }
  return options.styles.y;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Popper.js options
 * @returns {undefined}
 */
function applyStyleOnLoad() {
  var x = options.x,
      y = options.y;
  var popper = data.offsets.popper;

  // Remove this legacy support in Popper.js v2
  if (x) {
    return options.styles.x;
  }
  return options.styles.y;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Popper.js options
 * @returns {undefined}
 */
function computeStyle(data, options) {
  var x = options.x,
      y = options.y;
  var popper = data.offsets.popper;

  // Remove this legacy support in Popper.js v2
  if (x) {
    return options.styles.x;
  }
  return options.styles.y;
}
console.warn('WARNING: `gpuAcceleration` option moved to `computeStyle` modifier and will not be supported in future versions of Popper.js!');

var gpuAcceleration = legacyGpuAccelerationOption !== undefined ? legacyGpuAccelerationOption : options.gpuAcceleration;

var offsetParent = getOffsetParent(data.instance.popper);

var offsetParentRect = getBoundingClientRect(offsetParent);

Styles
var styles = { position: popper.position }; // Avoid blurry text by using full pixel integers.

For pixel-perfect positioning, top/bottom prefers rounded // values, while left/right prefers floored values.

var offsets = { left: Math.floor(popper.left), top: Math.round(popper.top) };

bottom: Math.round(popper.bottom), right: Math.floor(popper.right) };

var sideA = x === 'bottom' ? 'top' : 'bottom';
var sideB = y === 'right' ? 'left' : 'right';

// if gpuAcceleration is set to 'true' and transform is supported, // we use 'translate3d' to apply the position to the popper we // automatically use the supported prefixed version if needed var prefixedProperty = getSupportedPropertyName('transform'); // now, let's make a step back and look at this code closely (wtf?) // If the content of the popper grows once it's been positioned, it // may happen that the popper gets misplaced by the new content // overflowing its reference element

To avoid this problem, we provide two options (x and y), which allow // the consumer to define the offset origin.

If we position a popper on top of a reference element, we can set // 'x' to 'top' to make the popper grow towards its top instead of // its bottom. // when offsetParent is <html> the positioning is relative to the bottom of the screen (excluding the scrollbar)

and not the bottom of the html element

if (offsetParent.nodeName === 'HTML') {
  top = -offsetParent.clientHeight + offsets.bottom;
} else {
  top = -offsetParentRect.height + offsets.bottom;
}

else {
  top = offsets.top;
}

if (sideB === 'right') {
  if (offsetParent.nodeName === 'HTML') {
    left = -offsetParent.clientWidth + offsets.right;
  } else {
    left = -offsetParentRect.width + offsets.right;
  }
}

else {
  left = offsets.left;
}

if (gpuAcceleration && prefixedProperty) {
  styles[prefixedProperty] = 'translate3d(' + left + 'px, ' + top + 'px, 0)';
  styles[sideA] = 0;
  styles[sideB] = 0;
  styles.willChange = 'transform';
} else {
  var invertTop = sideA === 'bottom' ? -1 : 1;
  var invertLeft = sideB === 'right' ? -1 : 1;

  styles[sideA] = top * invertTop;
  styles[sideB] = left * invertLeft;

  styles.willChange = sideA + '-' + sideB;
}

Attributes
var attributes = { 'x-placement': data.placement };

data.attributes = _extends({}, attributes, data.attributes);

data.styles = _extends({}, styles, data.styles);

data.arrowStyles = _extends({}, data.offsets.arrow, data.arrowStyles);

return data;
its popper element!');
      return data;
    }
  }

  var placement = data.placement.split('-')[0];
  var _dataSoffsets = data.offsets;
  var popper = _dataSoffsets.popper;
  var reference = _dataSoffsets.reference;
  var isVertical = ['left', 'right'].indexOf(placement) !== -1;
  var len = isVertical ? 'height' : 'width';
  var sideCapitalized = isVertical ? 'Top' : 'Left';
  var side = sideCapitalized.toLowerCase();
  var altSide = isVertical ? 'left' : 'top';
  var opSide = isVertical ? 'bottom' : 'right';
  var arrowElementSize = getOuterSizes(arrowElement)[len];
  // extends keepTogether behavior making sure the popper and its
  // reference have enough pixels in conjunction
  // top/left side
  if (reference[opSide] - arrowElementSize < popper[side]) {
    data.offsets.popper[side] -= popper[side] - (reference[opSide] - arrowElementSize);
  }
  // bottom/right side
  if (reference[side] + arrowElementSize > popper[opSide]) {
    data.offsets.popper[side] += reference[side] + arrowElementSize - popper[opSide];
  }

  data.offsets.popper = getClientRect(data.offsets.popper);

  // compute center of the popper
  var center = reference[side] + reference[len] / 2;

  // Compute the sideValue using the updated popper offsets
  // take popper margin in account because we don't have this info available
  var css = getStyleComputedProperty(data.instance.popper);
  var popperMarginSide = parseFloat(css['margin' + side], 10);
  var popperBorderSide = parseFloat(css['border' + side + 'Width'], 10);
  var sideValue = center - data.offsets.popper[side] - popperMarginSide - popperBorderSide;

  // prevent arrowElement
  sideValue = Math.max(Math.min(popper[len] - arrowElementSize, sideValue), 0);

  data.arrowElement = arrowElement;
  data.offsets.arrow = _dataSoffsetsArrow = {},
      defineProperty(_dataSoffsetsArrow, side, Math.round(sideValue)),
      defineProperty(_dataSoffsetsArrow, altSide, ''), _dataSoffsetsArrow;

  return data;
}

/**
 * Get the opposite placement variation of the given one
 * @method
 * @memberof Popper.Utils
 * @argument {String} variation
 * @returns {String} flipped variation
 */
function getOppositeVariation(variation) {
  if (variation === 'end') {
    return 'start';
  } else if (variation === 'start') {
    return 'end';
  }
  return variation;
}

/**
 * List of accepted placements to use as values of the `placement`
 * option.
 * Valid placements are:
 * - `auto`
 * - `top`
 * - `right`
 * - `bottom`
 * - `left`
 *
 * Each placement can have a variation from this list:
 * - `-start`
 * - `-end`
 *
 * Variations are interpreted easily if you think of them as the left to right
 * written languages. Horizontally (`top` and `bottom`), `start` is left and `end`
 * is right. Vertically (`left` and `right`), `start` is top and `end` is bottom.
 * Some valid examples are:
 * - `top-end` (on top of reference, right aligned)
 * - `right-start` (on right of reference, top aligned)
 * - `bottom-start` (on bottom, centered)
 * - `auto-end` (on the side with more space available, alignment depends by placement)
 * - `auto` placement behavior
 *
 * @static
 * @type {Array}
 * @enum {String}
 * @readonly
 * @method placements
 * @memberof Popper
 */
var placements = ['auto-start', 'auto', 'auto-end', 'top-start', 'top', 'top-end', 'right-start', 'right', 'right-end', 'bottom-end', 'bottom', 'bottom-start', 'left-end', 'left', 'left-start'];

// Get rid of `auto` `auto-start` and `auto-end`
var validPlacements = placements.slice(3);

/**
 * Given a initial placement, returns all the subsequent
 * placements clockwise (or counter-clockwise).
 *
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement - A valid placement (it accepts variations)
 * @argument {Boolean} counter - Set to true to walk the placements counterclockwise
 * @returns {Array} placements including their variations
 */
function clockwise(placement) {
  var list = validPlacements.slice(0, counter ? validPlacements.length : 0);
  var index = list.indexOf(placement);
  var arr = list.slice(index + 1).concat(list.slice(0, index));
  return arr;
}

var BEHAVIORS = {
  FLIP: 'flip',
  CLOCKWISE: 'clockwise',
  COUNTERCLOCKWISE: 'counterclockwise',
};

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function modifier(data, options) {
  // if `inner` modifier is enabled, we can't use the flip modifier
  if (isModifierEnabled(data.instance.modifiers, 'inner')) {
    return data;
  }

  // seems like flip is trying to loop, probably there's not enough space on any of the flippable sides
  if (data.placement == data.originalPlacement) {
    data = data.prev;
  }

  // compute the opposite placement variation
  var variation = getOppositeVariation(data.placement);

  // use the opposite placement with the same variation
  var placement = getOppositePlacement(data.placement);

  // if the placement is valid, apply it
  if (validPlacements.indexOf(placement) !== -1) {
    data.placement = placement;
  }

  // if the placement is invalid, apply the opposite variation
  else if (validPlacements.indexOf(placement + variation) !== -1) {
    data.placement = placement + variation;
  }

  // if the placement is invalid, apply the opposite variation
  else if (validPlacements.indexOf(placement + variation + variation) !== -1) {
    data.placement = placement + variation + variation;
  }

  return data;
}
```javascript
var placement = data.placement.split('-')[0];
var placementOpposite = getOppositePlacement(placement);
var variation = data.placement.split('-')[1] || '';

var flipOrder = [
    placement, placementOpposite
];

if (options.behavior === BEHAVIORS.FLIP) {
    flipOrder = options.flipOrder;
}

var index = flipOrder.indexOf(placement);
var flipOrder = flipOrder.slice(index + 1, index + 1 + flipOrder.length);

flipOrder.forEach(function (step, index) {
    if (placement !== step || flipOrder.length === index + 1) {
        return data;
    }

    placement = data.placement.split('-')[0];
    placementOpposite = getOppositePlacement(placement);

    var popperOffsets = data.offsets.popper;
    var refOffsets = data.offsets.reference;

    // using floor because the reference offsets may contain decimals we are not
going to consider here
    var floor = Math.floor;

    if (overlapsRef) {
        // this boolean to detect
        // any flip loop
        data.flipped = true;

        placement = flipOrder[index + 1];
    }

    if (isVertical) {
        // flip the variation if required
        if варианция === 'start' && oversizeLeft || isVertical && варианция === 'end' && oversizeRight ||
            isVertical && variation === 'start' && oversizeTop || !isVertical && варианция === 'end' &&
                oversizeBottom) {
            // this object contains `position`, we
            want to preserve it along with
            // any additional property we may add in the future
            data.placement = placement + (variation ? '-' + variation : '');
            data.offsets.popper = _extends({}, data.offsets.popper, getPopperOffsets(data.instance.popper, data.offsets.reference, data.placement));
        }
    }

    return data;
```
```
Math.max(document.documentElement.clientHeight, window.innerHeight || 0);
else { 
  size = Math.max(document.documentElement.clientWidth, window.innerWidth || 0);
}

return 
size / 100 * value;
}

function parseOffset(offset, popperOffsets, placement, basePlacement) {

var offsets = [0, 0];

if (isNumeric(+offset)) {
  offsets = [+offset, 0];
} else {
  offsets = parseOffset(offset, popperOffsets, placement, basePlacement);
}

var fragments = offset.split(/\+\|-/).map(function (frag) {

  var return frag.search(/,|\s/) !== -1;

  // Split the offset string to obtain a list of values and operands
  // The regex addresses values with the plus or minus sign
  // in front (+10, -20, etc)
  var fragments = offset.split(/(\+|\-)/).map(function (frag) {

    // if is an explicit pixel unit, we get rid of the unit and keep the value
    // if is an implicit unit, it's px, and we return just the value
    return value;
  });

  Math.max(document.documentElement.clientHeight, window.innerHeight || 0);

  // if is an explicit unit, it's px, and we return just the value
  return value;
}

var fragments = offset.split(/(\+|\-)/).map(function (frag) {

  // if is an explicit pixel unit, we get rid of the unit and keep the value
  // if is an implicit unit, it's px, and we return just the value
  return value;
};

if (isNumeric(+offset)) {
  offsets = [+offset, 0];
} else {
  offsets = parseOffset(offset, popperOffsets, placement, basePlacement);
}

var basePlacement = placement.split('-')[0];

var popper = placement.split('-')[1];

var offsets = void 0;

if (isNumeric(+offset)) {
  offsets = [+offset, 0];
} else {
  offsets = parseOffset(offset, popper, reference, basePlacement);
}

var popper = placement.split('-')[1];

var offsets = void 0;

if (isNumeric(+offset)) {
  offsets = [+offset, 0];
} else {
  offsets = parseOffset(offset, popper, reference, basePlacement);
}

var popper = placement.split('-')[1];

var offsets = void 0;

if (isNumeric(+offset)) {
  offsets = [+offset, 0];
} else {
  offsets = parseOffset(offset, popper, reference, basePlacement);
}

the document size can be calculated excluding
  the size of the popper element itself
 var transformProp =
  getSupportedPropertyName('transform');
 var popperStyles = data.instance.popper.style; // assignment to help
  minification
 var top = popperStyles.top,
  left = popperStyles.left,
  transform =
  popperStyles[transformProp];

  var popperStyles = data.instance.popper.style; // assignment to help
  minification
 var boundaries = getBoundaries(data.instance.popper, data.data.instance, options.padding,
  boundariesElement, data.data.instanceFixed, data); // NOTE: DOM access here
  // restores the original style properties after the offsets have been computed

  var data = (num
  popperStyles.top = top;
  popperStyles.left = left;
  popperStyles[transformProp] = transform;
  data.instance.boundaries = boundaries;
  var order = options.priority;

  var popper = data.offsets.popper;
  var check = (primary:
    function primary(placement) {
      var value = popper[placement];
      if (popper[placement] < boundaries[placement] && !options.escapeWithReference) {
        value = Math.max(popper[placement], boundaries[placement]);
      }
      return defineProperty({}, placement, value);
    },
    secondary: function secondary(placement) {
      var mainSide = placement === 'right' ? 'left' : 'top';

      var value = popper[mainSide];
      if (popper[placement] > boundaries[placement] &&
        options.escapeWithReference) {
        value = Math.min(popper[mainSide], boundaries[placement]) -
          (placement === 'right' ? popper.width : popper.height);
      }
      return defineProperty({}, mainSide, value);
    }
  };

  order.forEach(function (placement) {
    var side = ['left', 'top'].indexOf(placement) !== -1 ? 'primary':
      'secondary';
    var popper = extend({}, popper, check[side](placement));
  });

  data.offsets.popper = popper;

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update`
 * method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function shift(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var shiftvariation = placement.split('-')[1];

  // if shift variation is specified, run the modifier
  if (shiftvariation) {
    var _data$offsets = data.offsets,
        reference = _data$offsets.reference,
        popper = _data$offsets.popper;

    var isVertical = ['bottom',
      'top'].indexOf(basePlacement) !== -1;
    var side = isVertical ? 'left' : 'top';
    var measurement = isVertical ? 'width' : 'height';

    var shiftOffsets = {
      start: defineProperty({}, side, reference[side]),
      end: defineProperty({}, side, reference[side] + reference[measurement] - popper[measurement])
    };

    data.offsets.popper = extend({}, popper, shiftOffsets[shiftvariation]);
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update`
 * method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function hide(data) {
  if (!isModifierRequired(data.instance.modifiers, 'hide',
    'preventOverflow')) {
    return data;
  }

  var refRect = data.offsets.reference;
  var bound = find(data.instance.modifiers, function (modifier) {
    return modifier.name === 'preventOverflow';
  }).boundaries;

  if (refRect.bottom < bound.top || refRect.left > bound.right ||
    refRect.top > bound.bottom ||
    refRect.right < bound.left) {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === true) {
      return data;
    }

    data.hide = true;
    data.attributes['x-out-of-boundaries'] = '';
  } else {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === false) {
      return data;
    }

    data.hide = false;
    data.attributes['x-out-of-boundaries'] = false;
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update`
 * method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function inner(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var _data$offsets = data.offsets,
      popper = _data$offsets.popper,
      reference = _data$offsets.reference;

  var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;

  var subtractLength = ['top', 'left'].indexOf(basePlacement) !== -1;

  var popper[isHoriz ? 'left' : 'top'] = reference[basePlacement] -
    (subtractLength ? popper[isHoriz ? 'width' : 'height'] : 0);

  data.data.instance.data =donneesPlacement(placement);

  return data;
}

/**
 * Modifier function, each modifier can
 * have a function of this type assigned
 * to its `fn` property.<br />
 * These functions will be called on each update,
 * this means that you must make sure they are performant enough to avoid performance bottlenecks.
 */

Popper.js uses a set of 9 modifiers to provide all the basic functionalities needed by the library. Usually you don't want to override the 'order', 'fn' and 'onLoad' props. All the other properties are configurations that could be tweaked.

<table>
<thead>
<tr>
<th>Modifier Description</th>
<th>Configuration Options</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>preventOverflow</code></td>
<td><code>order: 300</code></td>
<td><code>fn: preventOverflow</code></td>
</tr>
<tr>
<td><code>offset</code></td>
<td><code>order: 200</code></td>
<td><code>fn: offset</code></td>
</tr>
<tr>
<td><code>shift</code></td>
<td><code>order: 100</code></td>
<td><code>fn: shift</code></td>
</tr>
<tr>
<td><code>keepTogether</code></td>
<td></td>
<td><code>fn: shift</code>, <code>fn: offset</code></td>
</tr>
<tr>
<td><code>boundaryElement</code></td>
<td></td>
<td><code>boundariesElement: 'scrollParent'</code></td>
</tr>
</tbody>
</table>

### Popper Modifier Example

```javascript
var data = { x: 0, y: 0, width: 100, height: 100, placement: 'top' };
```
This modifier is used to move the `.arrowElement` of the popper to make sure it is positioned between the reference element and its popper element. It will read the outer size of the `arrowElement` node to detect how many pixels of conjunction are needed. It has no effect if no `arrowElement` is provided.

@memberof modifiers
@inner

**@prop {Number} margin**

The margin used to define the boundaries of the popper position. The popper will never be placed outside of the defined boundaries except if `keepTogether` is enabled. Modifier used to make the popper flow toward the inner of the reference element.

By default, when this modifier is disabled, the popper will be placed outside the reference element. Modifier used to make the popper flow toward the inner of the reference element. By default, when this modifier is disabled, the popper will be placed outside the reference element.

Otherwise, it will use the `top` and `left` properties.

**@prop {String} [x='left']**

Where to anchor the Y axis (`left` or `right`). AKA Y offset origin.

**@prop {String} [y='bottom']**

Where to anchor the X axis (`bottom` or `top`). AKA X offset origin.

**@prop {ModifierFn}**

This modifier is used to move the `arrowElement` of the popper to make sure it is positioned between the reference element and its popper element. It will read the outer size of the `arrowElement` node to detect how many pixels of conjunction are needed. It has no effect if no `arrowElement` is provided.

@memberof modifiers
@inner

**@prop {Number} margin**

The margin used to define the boundaries of the popper position. The popper will never be placed outside of the defined boundaries except if `keepTogether` is enabled. Modifier used to make the popper flow toward the inner of the reference element.

By default, when this modifier is disabled, the popper will be placed outside the reference element. Modifier used to make the popper flow toward the inner of the reference element. By default, when this modifier is disabled, the popper will be placed outside the reference element.

Otherwise, it will use the `top` and `left` properties.

**@prop {String} [x='left']**

Where to anchor the Y axis (`left` or `right`). AKA Y offset origin.

**@prop {String} [y='bottom']**

Where to anchor the X axis (`bottom` or `top`). AKA X offset origin.

**@prop {ModifierFn}**

This modifier is used to move the `arrowElement` of the popper to make sure it is positioned between the reference element and its popper element. It will read the outer size of the `arrowElement` node to detect how many pixels of conjunction are needed. It has no effect if no `arrowElement` is provided.

@memberof modifiers
@inner

**@prop {Number} margin**

The margin used to define the boundaries of the popper position. The popper will never be placed outside of the defined boundaries except if `keepTogether` is enabled. Modifier used to make the popper flow toward the inner of the reference element.

By default, when this modifier is disabled, the popper will be placed outside the reference element. Modifier used to make the popper flow toward the inner of the reference element. By default, when this modifier is disabled, the popper will be placed outside the reference element.
modifier and define your own to achieve the desired effect.

```javascript
applyStyle: {
    /** @prop {number} order=900 - Index used to define the order of execution */
    order: 900,

    /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
    enabled: true,

    /** @prop {ModifierFn} fn: applyStyle */
    fn: applyStyle,

    /** @prop {Function} onLoad: applyStyleOnLoad */
    onLoad: applyStyleOnLoad
  }
};
```

The `dataObject` is an object containing all the information used by Popper.js.

```javascript
/**
 * The `dataObject` is an object containing all the information used by Popper.js.
 * This object is passed to modifiers and to the `onCreate` and `onUpdate` callbacks.
 * @name dataObject
 * @property {Object} data.instance The Popper.js instance
 * @property {String} data.placement Placement applied to popper
 * @property {Object} data.styles Any CSS property defined here will be applied to the popper.
 * @property {Object} data.arrowStyles Any CSS property defined here will be applied to the popper arrow.
 */
```

```javascript
// Init
if (true, it uses the CSS 3D transformation to position the popper.
Otherwise, it will use the 'top' and 'left' properties as reference.

```javascript
var Popper = function () {
  function Popper(reference, popper) {
    var _this = this;

    classCallCheck(this, Popper);

    this.scheduleUpdate = function () {
      return requestAnimationFrame(_this.update);
    };

    this.update = debounce(this.update.bind(this));

    this.options = _extends({}, Popper.Defaults, options);

    // init state
    this.state = {
      isDestroyed: false,
      isCreated: false,
      scrollParents: []
    };

    this.scheduleUpdate();

    // make update() debounced, so that it only runs at most once-per-tick
    this.update = debounce(this.update.bind(this));

    // with this.scheduleUpdate = function () {
    //   return requestAnimationFrame(this.update); // make update() debounced, so that it only runs at most once-per-tick
    // };

    // Init
    if (true, it uses the CSS 3D transformation to position the popper.
    Otherwise, it will use the 'top' and 'left' properties as reference.
    ```
reference and popper elements (allow jQuery wrappers)

  this.popper = popper && popper.jquery ? popper[0] : popper;

  // Deep merge modifiers options
  this.options.modifiers = {};
  Object.keys(_extends({}, Popper.Defaults.modifiers, options.modifiers)).forEach(function (name) {
      this.options.modifiers[name] = _extends({}, Popper.Defaults.modifiers[name] || {});
  });

  // Refactoring modifiers' list (Object => Array)
  this.modifiers = Object.keys(this.options.modifiers).map(function (name) {
    return _extends({
      name: name
    }, this.options.modifiers[name]);
  })
  .sort(function (a, b) {
    return a.order - b.order;
  });

  // modifiers have the ability to execute arbitrary code when Popper.js get initialized // such code is executed in the same order of its modifier's // they could add new properties to their options configuration // BE AWARE: don't add options to `options.modifiers.name` but to `modifierOptions.name` // this.modifiers.forEach(function (modifierOptions) {
    if (modifierOptions.enabled && isFunction(modifierOptions.onLoad)) {
      modifierOptions.onLoad(this.reference, this.popper, this.options, modifierOptions, this.state);
    }
  });

  // fire the first update to position the popper in the right place
  this.update();

  var eventsEnabled = this.options.eventsEnabled;
  if (eventsEnabled) {
    // setup event listeners, they will take care of update the position in specific situations
    this.enableEventListeners();
  }

  this.state.eventsEnabled = eventsEnabled;
  // class properties because they don't get listed in the prototype and break stuff like Sinon stubs

  return Popper;
}();

/**
 * The `referenceObject` is an object that provides an interface compatible with Popper.js
 * and lets you use it as replacement of a real DOM node.
 * You can use this method to position a popper relatively to a set of coordinates in case you don't have a DOM node to use as reference.
 * ```
 * new Popper(referenceObject, popperNode);
 * ```
 * NB: This feature isn't supported in Internet Explorer 10.
 *
 * @name referenceObject
 * @property {Function} data.getBoundingClientRect A function that returns a set of coordinates compatible with the native `getBoundingClientRect` method.
 * @property {number} data.clientWidth An ES6 getter that will return the width of the virtual reference element.
 * @property {number} data.clientHeight An ES6 getter that will return the height of the virtual reference element.
 */

Popper.placements = placements;
Popper.Defaults = Defaults;

export default Popper;

function shortOut(func) {
  var count = 0;

  return function() {
    if (remaining > 0) {
      if (++count >= HOT_COUNT) {
        return arguments[0];
      }
    } else {
      count = 0;
    }
    return func.apply(undefined, arguments);
  }
}

module.exports = shortOut;

function toKey(value) {
  if (typeof value == 'string' || isSymbol(value)) {
    return value;
  }
  var result = (value + '');
  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
}

module.exports = toKey;

function dscr, value/*, options*/) {
  var c, e, options,
      desc = {
        value: value, configurable: c, enumerable: e, writable: w
      };
  return !options ? desc : assign(normalizeOpts(options), desc);
}

module.exports = function (it, Constructor, name, forbiddenField) {
  if (!(it instanceof Constructor) || (forbiddenField !== undefined && forbiddenField in it)) {
    throw TypeError(name + ': incorrect invocation!');
  } return it;
};

var isArray = require('./isArray'),
    isSymbol = require('./isSymbol');

/**
 * Checks if `value` is a property name and not a property path.
 *
 * @private
 * @param {*} value The value to check.
 * @param {Object} [object] The object to query keys on.
 * @returns {boolean} Returns `true` if `value` is a property name, else `false`.
 */
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;

"use strict";

var keys  = require("../keys")
  , value = require("../valid-value")
  , max   = Math.max;

module.exports = function (dest, src /*, …srcn*/) {
  var error, i, length = max(arguments.length, 2),
      assign;
  dest = Object(value(dest));
  assign = function (key) {
    try {
      dest[key] = src[key];
    } catch (e) {
      if (!error) error = e;
    }
  };
  for (i = 1; i < length; ++i) {
    src = arguments[i];
    keys(src).forEach(assign);
  }
  if (error !== undefined) throw error;
  return dest;
};

// 19.1.3.1 Object.assign(target, source)
var $export = require('./_export');

$export($export.S + $export.F, 'Object',
    { assign: require('./_object-assign') });

"use strict";

module.exports = function (searchString/*, position*/) {
  return indexOf.call(this, searchString, arguments[1]) > -1;
};

"use strict";

module.exports = require("./is-implemented")()
  ? String.prototype.contains
  : require("./shim");

var baseProperty = require('./_baseProperty'),
    basePropertyDeep = require('./_basePropertyDeep'),
    isKey = require('./_isKey'),
    toKey = require('./toKey');

function shallowCopy(obj) {
  var copy = Object(obj);
  return basePropertyDeep(copy, toKey, shallowCopy*obj * * * * * * 19.1.3.1 Object.assign(target, source)
```javascript

beforeCreate: function beforeCreate () {
  var options = this.$options;
  options.i18n = options.i18n || (options.__i18n ? {} : null); // init locale messages via custom blocks
  if (options.__i18n) {
    try {
      var localeMessages = {};
      options.__i18n.forEach(function (resource) {
        localeMessages = merge(localeMessages, JSON.parse(resource));
      });
      Object.keys(localeMessages).forEach(function (locale) {
        options.i18n.mergeLocaleMessage(locale, localeMessages[locale]);
      });
    } catch (e) {
      if (process.env.NODE_ENV !== 'production') {
        warn("Cannot parse locale messages via custom blocks.", e);
      }
    }
  }

  this._i18n = options.i18n;
  this._i18nWatcher = this._i18n.watchLocale();
  this._i18n.subscribeDataChanging(this);
  this._subscribing = true;
}

beforeDestroy: function beforeDestroy () {
  if (!this._i18n) { return }
  this._i18n.unsubscribeDataChanging(this);
  delete this._subscribing;
  this._i18nWatcher();
}

component = {
  name: 'i18n',
  functional: true,
  props: {
    tag: {
      type: String,
      default: 'span'
    },
    path: {
      type: String,
      required: true
    },
    locale: {
      type: String
    },
    places: {
      type: [Array, Object]
    }
  },
  render: function render (h, ref) {
    var props = ref.props;
    var data = ref.data;
    var children = ref.children;
    var parent = ref.parent;

    var i18n = parent.$i18n;

    children = (children || []).filter(function (child) {
      return child.tag || (child.text = child.text.trim())
    });

    if (!i18n) {
      if (process.env.NODE_ENV !== 'production') {
        warn('Cannot find VueI18n instance!');
      }
      return children
    }

    var path = props.path;
    var locale = props.locale;

    var params = {};
    var places = props.places || {};

    var everyPlace = children.every(function (child) {
      if (child.data && child.data.attrs) {
        var place = child.data.attrs.place;
        return (typeof place !== 'undefined') && place !== ''
      }
    });

    if (process.env.NODE_ENV !== 'production') && hasPlaces && children.length > 0 && !everyPlace) {
      warn('If places prop is set, all child elements must have place prop set.
    }

    if (Array.isArray(places)) {
      places.forEach(function (el, i) {
        params[i] = el;
      });
    } else {
      Object.keys(places).forEach(function (key) {
        params[key] = places[key];
      });
    }

    children.forEach(function (child, i) {
      var key = everyPlace
        ? ("" + (child.data.attrs.place))
        : ("" + i);
      params[key] = child;
    });

    return h(props.tag, data, i18n.i(path, locale, params))
  }
};
```

---

```javascript
function bind (el, binding, vnode) {
  if (!assert(el, vnode)) { return }
  t(el, binding, vnode);
}

function update (el, binding, vnode, oldVNode) {
  if (!assert(el, vnode)) { return }
  var i18n =
```
vnode.context.$i18n;\n if (localeEqual(el, vnode) &&\n (looseEqual(binding.value, binding.oldValue) &&\n
looseEqual(el._localeMessage, i18n.getLocaleMessage(i18n.locale)))) { return }\n\n t(el, binding,
vnode);\n}\n\nfunction unbind (el, binding, vnode, oldVNode) {\n var vm = vnode.context;\n if (!vm) {\n
warn('Vue instance does not exists in VNode context');\n return\n }\n\n el.textContent = '';\n el._vt =
undefined;\n delete el['_vt'];\n el._locale = undefined;\n delete el['_locale'];\n el._localeMessage = undefined;\n
delete el['_localeMessage'];\n}\n\nfunction assert (el, vnode) {\n var vm = vnode.context;\n if (!vm) {\n
warn('Vue instance doest not exists in VNode context');\n return false\n }\n\n if (!vm.$i18n) {\n warn('VueI18n
instance does not exists in Vue instance');\n return false\n }\n\n return true\n}\n\nfunction localeEqual (el, vnode)
{\n var vm = vnode.context;\n return el._locale === vm.$i18n.locale\n}\n\nfunction t (el, binding, vnode) {\n var
ref$1, ref$2;\n\n var value = binding.value;\n\n var ref = parseValue(value);\n var path = ref.path;\n var locale =
ref.locale;\n var args = ref.args;\n var choice = ref.choice;\n if (!path && !locale && !args) {\n warn('value type
not supported');\n return\n }\n\n if (!path) {\n warn('`path` is required in v-t directive');\n return\n }\n\n var
vm = vnode.context;\n if (choice) {\n el._vt = el.textContent = (ref$1 = vm.$i18n).tc.apply(ref$1, [ path, choice
].concat( makeParams(locale, args) ));\n } else {\n el._vt = el.textContent = (ref$2 = vm.$i18n).t.apply(ref$2, [
path ].concat( makeParams(locale, args) ));\n }\n el._locale = vm.$i18n.locale;\n el._localeMessage =
vm.$i18n.getLocaleMessage(vm.$i18n.locale);\n}\n\nfunction parseValue (value) {\n var path;\n var locale;\n var
args;\n var choice;\n\n if (typeof value === 'string') {\n path = value;\n } else if (isPlainObject(value)) {\n path
= value.path;\n locale = value.locale;\n args = value.args;\n choice = value.choice;\n }\n\n return { path: path,
locale: locale, args: args, choice: choice }\n}\n\nfunction makeParams (locale, args) {\n var params = [];\n\n locale
&& params.push(locale);\n if (args && (Array.isArray(args) || isPlainObject(args))) {\n params.push(args);\n
}\n\n return params\n}\n\nvar Vue;\n\nfunction install (_Vue) {\n /* istanbul ignore if */\n if
(process.env.NODE_ENV !== 'production' && install.installed && _Vue === Vue) {\n warn('already
installed.');\n return\n }\n install.installed = true;\n\n Vue = _Vue;\n\n var version = (Vue.version &&
Number(Vue.version.split('.')[0])) || -1;\n /* istanbul ignore if */\n if (process.env.NODE_ENV !== 'production'
&& version < 2) {\n warn((\"vue-i18n (\" + (install.version) + \") need to use Vue 2.0 or later (Vue: \" +
(Vue.version) + \").\"));\n return\n }\n\n extend(Vue);\n Vue.mixin(mixin);\n Vue.directive('t', { bind: bind,
update: update, unbind: unbind });\n Vue.component(component.name, component);\n\n // use simple
mergeStrategies to prevent i18n instance lose '__proto__'\n var strats = Vue.config.optionMergeStrategies;\n
strats.i18n = function (parentVal, childVal) {\n return childVal === undefined\n
? parentVal\n
: childVal\n
};\n}\n\n/* */\n\nvar BaseFormatter = function BaseFormatter () {\n this._caches =
Object.create(null);\n};\n\nBaseFormatter.prototype.interpolate = function interpolate (message, values) {\n if
(!values) {\n return [message]\n }\n var tokens = this._caches[message];\n if (!tokens) {\n tokens =
parse(message);\n this._caches[message] = tokens;\n }\n return compile(tokens, values)\n};\n\n\n\nvar
RE_TOKEN_LIST_VALUE = /^(?:\\d)+/;\nvar RE_TOKEN_NAMED_VALUE = /^(?:\\w)+/;\n\nfunction parse
(format) {\n var tokens = [];\n var position = 0;\n\n var text = '';\n while (position < format.length) {\n var char
= format[position++];\n if (char === '{') {\n
if (text) {\n
tokens.push({ type: 'text', value: text });\n
}\n\n
text = '';\n
var sub = '';\n
char = format[position++];\n
while (char !== undefined && char !== '}') {\n
sub += char;\n
char = format[position++];\n
}\n
var isClosed = char === '}';\n\n
var type =
RE_TOKEN_LIST_VALUE.test(sub)\n
? 'list'\n
: isClosed &&
RE_TOKEN_NAMED_VALUE.test(sub)\n
? 'named'\n
: 'unknown';\n
tokens.push({ value: sub, type:
type });\n } else if (char === '%') {\n
// when found rails i18n syntax, skip text capture\n
if
(format[(position)] !== '{') {\n
text += char;\n
}\n } else {\n
text += char;\n }\n }\n\n text &&
tokens.push({ type: 'text', value: text });\n\n return tokens\n}\n\nfunction compile (tokens, values) {\n var compiled
= [];\n var index = 0;\n\n var mode = Array.isArray(values)\n ? 'list'\n : isObject(values)\n
? 'named'\n
:
'unknown';\n if (mode === 'unknown') { return compiled }\n\n while (index < tokens.length) {\n var token =
tokens[index];\n switch (token.type) {\n
case 'text':\n
compiled.push(token.value);\n
break\n
case
'list':\n
compiled.push(values[parseInt(token.value, 10)]);\n
break\n
case 'named':\n
if (mode ===
'named') {\n
compiled.push((values)[token.value]);\n
} else {\n
if (process.env.NODE_ENV !==

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'production') {  
  warn('Type of token '" + (token.type) + '" and format of value '" + mode + '" don't match(!)');
  return compiled
}

function stripQuotes (str) {
  var a = str.charCodeAt(0);
  var b = str.charCodeAt(str.length - 1);
  return (a === b && (a === 0x22 || a === 0x27)) ? str.slice(1, -1) : str
}

/**
 * Determine the type of a character in a keypath.
 */

function getPathCharType (ch) {
  if (ch === undefined || ch === null) { return 'eof' }  

  var code = ch.charCodeAt(0);

  switch (code) {
    case 0x5B: // [
    case 0x5D: // ]
    case 0x2E: // .
    case 0x22: // "
    case 0x27: // '
      return ch

    case 0x5F: // _
    case 0x24: // $
    case 0x2D: // -
      return 'ident'

    case 0x20: // Space
    case 0x09: // Tab
    case 0x0A: // Newline
    case 0x0D: // Return
    case 0xA0: // No-break space
    case 0xFEFF: // BOM
    case 0x2028: // Line separator
    case 0x2029: // Paragraph separator
      return 'ws'
  }

  return 'ident'
}

/**
 * Parse a string path into an array of segments
 */

function parse$1 (path) {
  var keys = [];
  var index = -1;
  var mode = BEFORE_PATH;
  var subPathDepth = 0;
  var c;
  var key;
  var newChar;
  var type;
  var transition;
  var action;
  var actions = [];

  actions[PUSH] = function () {
    if (key !== undefined) {
      keys.push(key);
      key = undefined;
    }
  };

  actions[APPEND] = function () {
    if (key === undefined) {
      key = newChar;
    } else {
      key += newChar;
    }
  };

  actions[INC_SUB_PATH_DEPTH] = function () {
    subPathDepth++;
  };

  actions[PUSH_SUB_PATH] = function () {
    if (subPathDepth > 0) {
      var subPathDepth = 0;
      if (mode === INC_SUB_PATH_DEPTH)
        return false;
    }
  };

  function maybeUnescapeQuote () {
    var nextChar = path[index + 1];
    if ((nextChar === ' ' || nextChar === '\')) {
      index++;
      newChar = ' ' + nextChar;
      actions[APPEND]();
    } else {
      actions[APPEND]();
    }  

  };

  function formatSubPath (segment) {
    var trimmed = segment.trim();
    if (trimmed.charAt(0) === '0' && isNaN(trimmed)) { return false }
    return isLiteral(trimmed) ? stripQuotes(trimmed) : '*' + trimmed
  };

  while (mode !== null) {
    index++;
    c = path.charCodeAt(index);

    if (c === 0x5B || c === 0x2E) {
      mode = IN_SUB_PATH;
      subPathDepth++;  
      return true;
    } else {
      var nextChar = path[index + 1];
      if (nextChar === ' ' || nextChar === '\') {
        index++;
        newChar = ' ' + nextChar;
        actions[APPEND]();
      } else {
        actions[APPEND]();
      }  

    };

    var nextMode = pathStateMachine[mode][c] || mode;
    mode = nextMode;
    subPathDepth = subPathDepth --;
    actions[nextMode];
  }

  return compiled
}
mode = transition[0];\n action = actions[transition[1]];\n if (action) {\n
newChar = transition[2];\n
newChar = newChar === undefined\n
? c\n
: newChar;\n
if (action() === false) {\n
return\n
}\n
}\n\n if (mode === AFTER_PATH) {\n
return keys\n }\n }\n}\n\n\n\n\n\nvar I18nPath = function I18nPath
() {\n this._cache = Object.create(null);\n};\n\n/**\n * External parse that check for a cache hit first\n
*/\nI18nPath.prototype.parsePath = function parsePath (path) {\n var hit = this._cache[path];\n if (!hit) {\n hit =
parse$1(path);\n if (hit) {\n
this._cache[path] = hit;\n }\n }\n return hit || []\n};\n\n/**\n * Get path value
from path string\n */\nI18nPath.prototype.getPathValue = function getPathValue (obj, path) {\n if (!isObject(obj)) {
return null }\n\n var paths = this.parsePath(path);\n if (paths.length === 0) {\n return null\n } else {\n var
length = paths.length;\n var last = obj;\n var i = 0;\n while (i < length) {\n
var value = last[paths[i]];\n
if
(value === undefined) {\n
return null\n
}\n
last = value;\n
i++;\n }\n\n return last\n }\n};\n\n/*
*/\n\n\n\nvar numberFormatKeys = [\n 'style',\n 'currency',\n 'currencyDisplay',\n 'useGrouping',\n
'minimumIntegerDigits',\n 'minimumFractionDigits',\n 'maximumFractionDigits',\n 'minimumSignificantDigits',\n
'maximumSignificantDigits',\n 'localeMatcher',\n 'formatMatcher'\n];\nvar linkKeyMatcher = /(?:@(?:\\.[az]+)?:(?:[\\w\\-_|.]+|\\([\\w\\-_|.]+\\)))/g;\nvar linkKeyPrefixMatcher = /^@(?:\\.([a-z]+))?:/;\nvar bracketsMatcher =
/[()]/g;\nvar formatters = {\n 'upper': function (str) { return str.toLocaleUpperCase(); },\n 'lower': function (str) {
return str.toLocaleLowerCase(); }\n};\n\nvar VueI18n = function VueI18n (options) {\n var this$1 = this;\n if (
options === void 0 ) options = {};\n\n // Auto install if it is not done yet and `window` has `Vue`.\n // To allow
users to avoid auto-installation in some cases,\n // this code should be placed here. See #290\n /* istanbul ignore if
*/\n if (!Vue && typeof window !== 'undefined' && window.Vue) {\n install(window.Vue);\n }\n\n var locale =
options.locale || 'en-US';\n var fallbackLocale = options.fallbackLocale || 'en-US';\n var messages =
options.messages || {};\n var dateTimeFormats = options.dateTimeFormats || {};\n var numberFormats =
options.numberFormats || {};\n\n this._vm = null;\n this._formatter = options.formatter || new BaseFormatter();\n
this._missing = options.missing || null;\n this._root = options.root || null;\n this._sync = options.sync === undefined
? true : !!options.sync;\n this._fallbackRoot = options.fallbackRoot === undefined\n ? true\n :
!!options.fallbackRoot;\n this._silentTranslationWarn = options.silentTranslationWarn === undefined\n ? false\n
: !!options.silentTranslationWarn;\n this._dateTimeFormatters = {};\n this._numberFormatters = {};\n this._path =
new I18nPath();\n this._dataListeners = [];\n\n this._exist = function (message, key) {\n if (!message || !key) {
return false }\n return !isNull(this$1._path.getPathValue(message, key))\n };\n\n this._initVM({\n locale:
locale,\n fallbackLocale: fallbackLocale,\n messages: messages,\n dateTimeFormats: dateTimeFormats,\n
numberFormats: numberFormats\n });\n};\n\nvar prototypeAccessors = { vm: { configurable: true },messages: {
configurable: true },dateTimeFormats: { configurable: true },numberFormats: { configurable: true },locale: {
configurable: true },fallbackLocale: { configurable: true },missing: { configurable: true },formatter: { configurable:
true },silentTranslationWarn: { configurable: true } };\n\nVueI18n.prototype._initVM = function _initVM (data) {\n
var silent = Vue.config.silent;\n Vue.config.silent = true;\n this._vm = new Vue({ data: data });\n
Vue.config.silent = silent;\n};\n\nVueI18n.prototype.subscribeDataChanging = function subscribeDataChanging
(vm) {\n this._dataListeners.push(vm);\n};\n\nVueI18n.prototype.unsubscribeDataChanging = function
unsubscribeDataChanging (vm) {\n remove(this._dataListeners, vm);\n};\n\nVueI18n.prototype.watchI18nData =
function watchI18nData () {\n var self = this;\n return this._vm.$watch('$data', function () {\n var i =
self._dataListeners.length;\n while (i--) {\n
Vue.nextTick(function () {\n
self._dataListeners[i] &&
self._dataListeners[i].$forceUpdate();\n
});\n }\n }, { deep: true })\n};\n\nVueI18n.prototype.watchLocale =
function watchLocale () {\n /* istanbul ignore if */\n if (!this._sync || !this._root) { return null }\n var target =
this._vm;\n return this._root.$i18n.vm.$watch('locale', function (val) {\n target.$set(target, 'locale', val);\n
target.$forceUpdate();\n }, { immediate: true })\n};\n\nprototypeAccessors.vm.get = function () { return this._vm
};\n\nprototypeAccessors.messages.get = function () { return looseClone(this._getMessages())
};\nprototypeAccessors.dateTimeFormats.get = function () { return looseClone(this._getDateTimeFormats())
};\nprototypeAccessors.numberFormats.get = function () { return looseClone(this._getNumberFormats())
};\n\nprototypeAccessors.locale.get = function () { return this._vm.locale };\nprototypeAccessors.locale.set =
function (locale) {\n this._vm.$set(this._vm, 'locale', locale);\n};\n\nprototypeAccessors.fallbackLocale.get =

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setLocaleMessage (locale, message) {
  this._vm.$set(this._vm.messages, locale, message);
}

VueI18n.prototype.mergeLocaleMessage = function mergeLocaleMessage (locale, message) {
  this._vm.$set(this._vm.messages, locale, merge(this._vm.messages[locale] || {}, message));
}

VueI18n.prototype.getDateTimeFormat = function getDateTimeFormat (locale) {
  return looseClone(this._vm.dateTimeFormats[locale] || {});
}

VueI18n.prototype.setTimeFormat = function setTimeFormat (locale, format) {
  this._vm.$set(this._vm.dateTimeFormats, locale, format);
}

VueI18n.prototype.mergeDateTimeFormat = function mergeDateTimeFormat (locale, format) {
  this._vm.$set(this._vm.dateTimeFormats, locale, merge(this._vm.dateTimeFormats[locale] || {}), format);
}

VueI18n.prototype._localizeDateTime = function _localizeDateTime (value, locale, fallback, dateTimeFormats, key) {
  var _locale = locale;
  var formats = dateTimeFormats[_locale] || {};
  if (isNull(formats) || isNull(formats[key])) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fall back to " + fallback + " + " + key + " + " + dateTimeFormats[_locale].keys,"");
    }
    _locale = fallback;
    formats = dateTimeFormats[_locale] || {};
  }
  if (isNull(formats) || isNull(formats[key])) {
    return null;
  } else {
    var format = formats[key];
    var id = _locale + "__" + key;
    var formatter = this._dateTimeFormatters[id];
    if (!formatter) {
      formatter = this._dateTimeFormatters[id] = new Intl.DateTimeFormat(_locale, format);
    }
    return formatter.format(value);
  }
}

VueI18n.prototype._d = function _d (value, locale, key) {
  if (process.env.NODE_ENV !== 'production' && !VueI18n.availabilities.dateTimeFormat) {
    warn('Cannot format a Date value due to not supported Intl.DateTimeFormat.');
    return ''
  }
  var ret = this._localeizeDateTime(value, locale, this.fallbackLocale, this._getDateTimeFormats(), key);
  if (this._isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fall back to datetime localization of root: key '" + key + "' .");
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return this._root.$i18n.d(value, key, locale)
  } else {
    return ret || ''
  }
}

VueI18n.prototype.d = function d (value) {
  var args = [], len = arguments.length - 1;
  while ( len-- > 0 ) args[len] = arguments[len + 1];
  var locale = this.locale;
  var key = null;
  if (args.length === 1) {
    if (typeof args[0] === 'string') {
      key = args[0];
    } else if (isObject(args[0])) {
      if (args[0].locale) {
        locale = args[0].locale;
      }
      if (args[0].key) {
        key = args[0].key;
      }
    }
  } else if (args.length === 2) {
    if (typeof args[0] === 'string') {
      key = args[0];
    } else if (typeof args[1] === 'string') {
      locale = args[1];
    }
  }
  var ret = this._d(value, locale, key);
  if (this._isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fall back to number format localization of root: key '" + key + "' .");
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return this._root.$i18n.d(value, key, locale)
  } else {
    return ret || ''
  }
}

VueI18n.prototype.getNumberFormat = function getNumberFormat (locale) {
  return looseClone(this._vm.numberFormats[locale] || {});
}

VueI18n.prototype.setNumberFormat = function setNumberFormat (locale, format) {
  this._vm.$set(this._vm.numberFormats, locale, format);
}

VueI18n.prototype.mergeNumberFormat = function mergeNumberFormat (locale, format) {
  this._vm.$set(this._vm.numberFormats, locale, merge(this._vm.numberFormats[locale] || {}), format);
}

VueI18n.prototype._localizeNumber = function _localizeNumber (value, locale, fallback, numberFormats, key, options) {
  var _locale = locale;
  var formats = numberFormats[_locale] || {};
  if (isNull(formats) || isNull(formats[key])) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fall back to " + fallback + " + " + numberFormats[_locale].keys,"");
    }
    _locale = fallback;
    formats = numberFormats[_locale] || {};
  }
  if (isNull(formats) || isNull(formats[key])) {
    return null;
  } else {
    var format = formats[key];
    var options = options || {};
    var arg = options.length - 1 > 0 ? arguments[len + 1] : arguments[len];
    var id = _locale + "__" + key;
    var formatter = options ? this._numberFormatters[id] = new Intl.NumberFormat(_locale, formatters[id]) : this._numberFormatters[id] = new Intl.NumberFormat(_locale, Object.assign(options, formatters[id]));
    return this._d(value, _locale, key, options);
  }
}

VueI18n.prototype._n = function _n (value, locale, key, options) {
  if (process.env.NODE_ENV !== 'production' && !VueI18n.availabilities.numberFormat) {
    warn('Cannot format a Number value due to not supported Intl.NumberFormat.');
    return ''
  }
  var ret = this._n(value, locale, key, options);
  if (this._isFallbackRoot(ret)) {
    if (process.env.NODE_ENV !== 'production') {
      warn("Fall back to number format localization of root: key '" + key + "' .");
    }
    /* istanbul ignore if */
    if (!this._root) { throw Error('unexpected error') }
    return this._root.$i18n.d(value, key, locale)
  } else {
    return ret || ''
  }
}
if (this._isFallbackRoot(ret)) {
  if (process.env.NODE_ENV !== 'production') {
    warn('Fall back to number localization of root: key "' + 
      key + ' + key + \\
      ' + key + '"
  )
  }
}

if (this._root) {
  if (process.env.NODE_ENV !== 'production') {
    warn('Fall
  back to number localization of root: key "' + key + ' ."
    )
  }
  if (!this._root) {
    return Error('unexpected error')
  }
  return this._root.$i18n.n(value, Object.assign({}, { key: key, locale: locale },
    options))
} else {
  return ret || ''
}

VueI18n.prototype.n = function n (value) {
  var args = [], len = arguments.length - 1;
  while ( len-- > 0 ) args[ len ] = arguments[ len + 1 ];
  var locale = this.locale;
  var key = null;
  var options = null;

  if (args.length === 1) {
    if (typeof args[0] === 'string') {
      key = args[0];
    } else if (isObject(args[0])) {
      if (args[0].locale) {
        locale = args[0].locale;
      }
      if (args[0].key) {
        key = args[0].key;
      }

      // Filter out number format options only if options
      options = Object.keys(args[0]).reduce(function (acc, key) {
        var obj = {}
        if (numberFormatKeys.includes(key)) {
          acc[key] = args[0][key]
        }
        return acc
      }, null);
    }
  } else if (args.length === 2) {
    if (typeof args[0] === 'string') {
      key = args[0];
    }
    if (typeof args[1] === 'string') {
      locale = args[1];
    }
  }

  return this._n(value, locale, key, options)
};

Object.defineProperties( VueI18n.prototype, prototypeAccessors );

VueI18n.install = install;
VueI18n.version = '8.4.0';

export default VueI18n;

const DEFAULT_ROWS = [
  {
    height: '1em',
    boxes: [['50%', '30%'], ['5%', '10%']]
  }
]

export function isFlexBasis (str) {
  return Number(str).toString() === str.toString()
}

export function isWidth (str) {
  const cssSuffix = ['px', '%', 'em', 'rem']
  let checkState = false
  cssSuffix.forEach(suffix => {
    if (Number(str.split(suffix)[0]) &&
    str.split(suffix)[1] === '' &&
    str.split(suffix).length === 2) {
      checkState = true
    }
  })
  return checkState
}

export function getBoxStyle (left, width, isLast, subClass = 'box') {
  const arr = []
  if (left !== 0) {
    if (isFlexBasis(left)) {
      arr.push({style: `flex-grow: ${left}; flex-shrink: 0; flex-basis: 0;`, subClass})
    } else if (isWidth(left)) {
      arr.push({style: `flex-grow: 0; flex-shrink: 0; flex-basis: ${left};`})
    }
  }
  if (isFlexBasis(width)) {
    arr.push({style: `flex-grow: ${width}; flex-shrink: 0; flex-basis: 0;`})
  } else if (isWidth(width)) {
    arr.push({style: `flex-grow: 0; flex-shrink: 0; flex-basis: ${width};`})
  }
  if (isLast) {
    arr.push({style: 'flex-grow: 1; flex-shrink: 0; flex-basis: 0;', subClass})
  }

  return arr
}

export function formatRows (rows = DEFAULT_ROWS, subClass = 'box') {
  const rowArr = []
  rows.forEach(row => {
    const boxArr = []
    const rowObj = {}
    // Add height
    rowObj.height = row.height
    // Add style
    row.boxes.forEach((box, index) => {
      const isLast = index === row.boxes.length - 1
      boxArr = boxArr.concat(getBoxStyle(box[0], box[1], isLast, subClass))
    })

    rowArr.push(rowObj, boxArr)
  })

  return rowArr
}

export default {
  isFlexBasis,
  isWidth,
  getBoxStyle,
  formatRows
}
import { formatRows } from '../utils/placeholder.js

/**
 * A component to fill empty spaces with animated placeholders until content is loaded.
 * @name 'ContentPlaceholder'
 * @props {rows: Array<any>[], size: string} An array of lines describing a series of cell sizes and margin sizes.
 * @rows {Array<any>[]} The size of the background gradient with the elapsing effect.
 * @size {string} A component to fill empty spaces with animated placeholders until content is loaded.
 */

export default {
  name: 'ContentPlaceholder',
  props: {
    rows: {type: Array, default: []},
    size: {type: String, default: '250%'}
  },
  computed: {
    formattedRows () {
      return formatRows(this.rows, 'content-placeholder__wrapper__row__box')
    }
  },
  mounted () {
    this.$nextTick(() => {
      this.$emit('content-loaded')
    })
  },
  render (h, { slots, attrs }) {
    return h('template', { attrs: { ref: 'content-placeholder__content-template' } }, {
      slots: {
        default: (slots) => slots.default ? slots.default(h) : h('div', { attrs: { class: 'content-placeholder__wrapper__row__box' } }, [])
      }
    })
  }
}

</script>

<style scoped lang="scss">
@import '../styles/lib';

@keyframes placeHolderShimmer {
  0% {
    background-position: 100% 0
  }
  100% {
    background-position: -100% 0
  }
}

.content-placeholder {
  overflow: hidden;
  &__wrapper {
    animation-duration: 1s;
    animation-fill-mode: forwards;
    animation-iteration-count: infinite;
    animation-name: animation-timing-function: linear;
    background: #f6f7f8;
    background-position: linear-gradient(to right, #eeeeee 8%, #dddddd 18%, #eeeeee 33%);
    position: relative;
    &__row {
      width: 100%;
      box-sizing: border-box;
      display: flex;
      flex: 0 1 auto;
      flex-direction: row;
      flex-wrap: wrap;
      &__box {
        box-sizing: border-box;
        position: relative;
        height: 100%;
        margin-bottom: 0;
        background-color: white;
        overflow: hidden;
      }
    }
  }
}

/* globals __VUE_SSR_CONTEXT__ */

// IMPORTANT: Do NOT use ES2015 features in this file (except for modules).
// This module is a runtime utility for cleaner component module output and will
// be included in the final webpack user bundle.

export default function normalizeComponent (scriptExports, render, staticRenderFns, functionalTemplate, injectStyles, scopeId, moduleIdentifier, shadowMode)
{
  // render functions
  if (render) {
    options.render = render
    options.staticRenderFns = staticRenderFns
    // register component module identifier for async chunk inferrence
    if (context && context._registeredComponents) {
      context._registeredComponents.add(moduleIdentifier)
    }
  }

  return {
    exports: scriptExports,
    options: options
  }
}
var render = function () {var _vm = this;
var _h = _vm.$createElement;
var _c = _vm._self._c || _h;
return _c('div', [(_vm.noTitle) ? _c('h2', [{staticClass: 'text-uppercase font-weight-bold text-primary h5'}], _vm._v(_vm._s(_vm.$t('donate-form.support')) + _vm._v('

"./ContentPlaceholder.vue?vue&type=script&lang=js&" export * from
"./ContentPlaceholder.vue?vue&type=script&lang=js&" import style0 from
"./ContentPlaceholder.vue?vue&type=style&index=0&id=40e3a912&scoped=true&lang=scss&"

normalize component */
import normalizer from "!../../node_modules/vue-loader/lib/runtime/componentNormalizer.js"
var component = normalizer( {script, render, staticRenderFns, false, null, null, null, null, null, null, component.options, _file =
"ContentPlaceholder.vue"; "expire default component: exports", "var render = function () {var _vm=this;var _h = _vm.$createElement;var _c = _vm._self._c || _h;return _c('div', {staticClass: 'donate-form container-fluid py-2'}), (! _vm.noTitle) ? _c('h2', {staticClass: 'text-uppercase font-weight-bold text-primary h5'}), (_vm._v(_vm._s(_vm.$t('donate-form.join-heading')) + _vm._v(' 

"./ContentPlaceholder.vue?vue&type=script&lang=js&"
export * from
"./ContentPlaceholder.vue?vue&type=script&lang=js&" import style0 from
"./ContentPlaceholder.vue?vue&type=style&index=0&id=40e3a912&scoped=true&lang=scss&"
Open Source Used In SMI 2021.01.0-Apr-2022 7572
```javascript
(e) { 
  reject(deferred.promise, e);
  return;
}

resolve(self, newValue) { 
  try { 
    if (newValue === self) 
      throw new TypeError('A promise cannot be resolved with itself.');
    if (newValue && (typeof newValue === 'object' || typeof newValue === 'function'))
      unfn(function reject(self, newValue) { 
        if (newValue instanceof Promise) 
          self._state = 3;
        else if (typeof newValue === 'function')
          doResolve(bind(newValue, self), self);
        else if (newValue instanceof Array)
          for (var i = 0, len = newValue.length; i < len; i++)
            handle(self, self._deferreds[i]);
        self._value = newValue;
        finale(self);
      })(self, newValue); 
    return;
  } catch (e) { 
    reject(self, e);
  }
}

function doResolve(fn, self) { 
  var done = false;
  try { 
    fn(
      function(value) {
        if (done) return;
        done = true;
        resolve(self, value);
      },
      function(reason) {
        if (done) return;
        done = true;
        reject(self, reason);
      }
    );
  } catch (ex) { 
    if (done) return;
    done = true;
    reject(self, ex);
  }
}

Promise.prototype['catch'] = function(onRejected) { 
  return this.then(null, onRejected);
};

Promise.prototype.then = function(onFulfilled, onRejected) { 
  // @ts-ignore
  var prom = new this.constructor(noop);

  handle(this, new Handler(onFulfilled, onRejected, prom));
  return prom; 
};

Promise.all = function(arr) { 
  return new Promise(function(resolve, reject) { 
    if (!arr || typeof arr.length === 'undefined')
      throw new TypeError('Promise.all accepts an array');
    var args = Array.prototype.slice.call(arr);
    if (args.length === 0) 
      return resolve([]);
    var remaining = args.length;
    for (var i = 0, val; i < remaining; i++)
      args[i].then(resolve, reject);
  })
};

Promise.resolve = function(value) { 
  if (value && typeof value === 'object' && value.constructor === Promise) 
    return value;
  else 
    return new Promise(function(resolve) { 
      resolve(value);
    });
};

Promise.reject = function(value) { 
  return new Promise(function(resolve, reject) { 
    reject(value);
  });
};

Promise.race = function(values) { 
  return new Promise(function(resolve, reject) { 
    for (var i = 0, len = values.length; i < len; i++)
      values[i].then(resolve, reject);
  });
};

Promise._immediateFn =
  (typeof setImmediate === 'function' &&
    function(fn) {
      setImmediate(fn);
    }) ||
  function(fn) {
    setTimeoutFunc(fn, 0);
  };
injectAssets = function() {
  \n  const files = flatten(arguments)
  return new Promise(resolve => {
    var filesLoaded = 0
    var allFilesLoaded = function() {
      if(++filesLoaded == files.length) {
        resolve();
      }
    }
    \n    for(var i=0; i < files.length; i++) {
      \n      \n    }
    \n  })
}

import every from 'lodash/every'
import { injectAssets } from './assets'

export default class IframeResizer {
  constructor () {
    this.initialize = injectAssets('//pym.nprapps.org/pym.v1.min.js').then().then(() => {
      pymChild = pymChild || new window.pym.Child({
        polling: 300
      }).return pymChild()
    })
    return this.initialize()
  }
  sendHeight () {
    this.initialize.then(pymChild => pymChild.sendHeight())
  }
  static create () {
    return new IframeResizer()
  }
  static template(url, id = 'icij-' + Date.now().toString(32)) {
    const pymParams = ['initialWidth', 'childId', 'parentUrl', 'parentTitle']
    return this
  }
  static deletePymParams(href = window.location.href) {
    const url = new URL(href);
    // Remove all unwanted params
    for (let param of pymParams) url.searchParams.delete(param);
    // Rebuild the URL
    return url.href
  }
  static isEmbedded (href = window.location.href) {
    const url = new URL(href);
    return every(pymParams, param => url.searchParams.has(param))
  }
}

var render = function () {var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return _c('div',{staticClass:"sharing-options",style:(_vm.style)},[_c('social-sharing',_vm.b,[inlineTemplate:{render:function(){var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return _c('network',{staticClass:"sharing-options__link"},[ _c('fa',{attrs:{"icon":['fab', 'twitter']}}), _c('span',{staticClass:"sr-only"},[_vm._v("Share on Twitter")])],1)},staticRenderFns:[[]]}},'social-sharing',_vm.valuesFor('twitter'),false)),_c('social-sharing',_vm.b,[inlineTemplate:{render:function(){var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return _c('network',{staticClass:"sharing-options__link"},[ _c('fa',{attrs:{"icon":['fab', 'facebook']}}), _c('span',{staticClass:"sr-only"},[_vm._v("Share on Facebook")])],1)},staticRenderFns:[[]]}],'social-sharing',_vm.valuesFor('facebook'),false)),_c('social-sharing',_vm.b,[inlineTemplate:{render:function(){var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return _c('network',{staticClass:"sharing-options__link"},[ _c('fa',{attrs:{"icon":['fab', 'linkedin']}}), _c('span',{staticClass:"sr-only"},[_vm._v("Share on Linkedin")])],1)},staticRenderFns:[[]]}],'social-sharing',_vm.valuesFor('linkedin'),false)),_c('social-sharing',_vm.b,[inlineTemplate:{render:function(){var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return _c('network',{staticClass:"sharing-options__link"},[ _c('fa',{attrs:{"icon":"envelope"}}), _c('span',{staticClass:"sr-only"},[_vm._v("Share by email")])],1)},staticRenderFns:[[]]}],'social-sharing',_vm.valuesFor('email'),false)),_c('div',{directives:[{name:"show",rawName:"v-show",value:(!_vm.noEmbed),expression:"!noEmbed"}],'class':"sharing-options__link"},[ _c('a',{on:{"click":_vm.showEmbedForm}},[ _c('fa',{attrs:{"icon":"code"}}), _c('span',{staticClass:"sr-only"},[_vm._v("Embed")])],1)])])
}

var staticRenderFns = []


```javascript
A[k] = kValue;

// 18. Let putStatus be Put(A, "\'length\'", len, true).
A.length = len;

// 20. Return A.
return A;
```

```javascript
// Needed for IE support
if (!Array.prototype.find) {
  // eslint-disable-next-line no-extend-native
  Object.defineProperty(Array.prototype, 'find', {
    value: function value(predicate) {
      // 1. Let T be undefined; else let T be thisArg;
      let thisArg = arguments[1];
      // 2. Let len be ToLength(? Get(O, "length"));
      var len = O.length >>> 0;
      // 3. If IsCallable(predicate) is false, throw a TypeError exception.
      if (typeof predicate !== 'function') {
        throw new TypeError('predicate must be a function');
      }
      // 4. If thisArg was supplied, let T be thisArg;
      // else let T be undefined.
      var thisArg = arguments[1];
      // 5. Let k be 0;
      var k = 0;
       // 6. Repeat, while k < len while (k < len) {
      while (k < len) {
        // a. Let Pk be ! ToString(k).
        // b. Let kValue be ? Get(O, Pk).
        var kValue = O[k];
        // c. Let testResult be ToBoolean(? Call(predicate, T, « kValue, k, O »)).
        if (predicate.call(thisArg, kValue, k, O)) {
          return kValue;
        }
        // e. Increase k by 1.
        k++;
      }
      // 7. Return undefined.
      return undefined;
    }
  });
}

if (!Array.isArray) {
  Array.isArray = function arrayFrom(arg) {
    return Object.prototype.toString.call(arg) === '
```
polyfill for speed

// Prefer native implementation over polyfill function
var Closest = Element.prototype.closest

/* istanbul ignore next */
function (sel) {
  var element = this;
  if (!document.documentElement.contains(element)) {
    return null;
  }
  do {
    // Use our "patched"
    matches function
    if (matches(element, sel)) {
      return element;
    }
    element = element.parentElement;
  } while (element !== null);
  return null;
}

return var el = Closest.call(root, selector);

// Emulate jQuery closest and return null if match is the passed in element (root)
return el === root ? null : el;

// Get an element given an ID
export function getElById (id) {
  return document.getElementById(id);
}

// Add a class to an element
export function addClass (el, className) {
  if (className) {
    el.classList.add(className);
  }
}

// Remove a class from an element
export function removeClass (el, className) {
  if (className) {
    el.classList.remove(className);
  }
}

// Test if an element has a class
export function hasClass (el, className) {
  if (className) {
    return el.classList.contains(className);
  }
  return false;
}

// Set an attribute on an element
export function setAttr (el, attr, value) {
  if (attr) {
    el.setAttribute(attr, value);
  }
}

// Remove an attribute from an element
export function removeAttr (el, attr) {
  if (attr) {
    el.removeAttribute(attr);
  }
}

// Get an attribute value from an element
export function getAttr (el, attr) {
  if (attr) {
    return el.getAttribute(attr);
  }
  return null;
}

// Determine if an attribute exists on an element
export function hasAttr (el, attr) {
  if (attr) {
    return el.hasAttribute(attr);
  }
  return null;
}

// Return the Bounding Client Rec of an element. Returns null if not an element
export function getBCR (el) {
  return isElement(el) ? el.getBoundingClientRect() : null;
}

// Return an element's offset wrt document element
export function getOffset (el) {
  if (isElement(el)) {
    if (!el.getClientRects().length) {
      return { top: 0, left: 0 };
    }
    var bcr = getBCR(el);
    var win = el.ownerDocument.defaultView;
    return {
      top: bcr.top + win.pageYOffset,
      left: bcr.left + win.pageXOffset
    };
  }
}

// Return an element's offset wrt to it's offsetParent
export function getPosition (el) {
  if (isElement(el)) {
    var parentOffset = { top: 0, left: 0 };
    var offsetSelf = void 0;
    var offsetParent = void 0;
    if (getCS(el).position === 'fixed') {
      offsetSelf = getBCR(el);
    } else {
      offsetSelf = offset(el);
    }
    var doc = el.ownerDocument;
    offsetParent = el.offsetParent || doc.documentElement;
    while (offsetParent && (offsetParent === doc.body || offsetParent === doc.documentElement) &&
      getCS(offsetParent).position === 'static') {
      offsetParent = offsetParent.parentNode;
    }
    return {
      top: offsetSelf.top - offsetParent.top - parseFloat(getCS(el).marginTop),
      left: offsetSelf.left - parentOffset.top + parentOffset.left - parseFloat(getCS(el).marginLeft)
    };
  }
}

var _typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ? function (obj) {
  return typeof obj;
} : function (obj) {
  return obj && typeof Symbol === "function" && obj.constructor === Symbol && typeof obj === "symbol" ? function (obj) {
    return obj;
  } : function (obj) {
    return obj;
  }
}

import { assign, keys } from '../../utils/object';
import { arrayIncludes, concat } from '../../utils/array';
import { mergeData } from 'vue-functional-data-merge';

/**
 * The Link component is used in many other BV components.
 * As such, sharing its props makes supporting all its features easier.
 * However, some components need to modify the defaults for their own purpose.
 * Prefer sharing a fresh copy of the props to ensure mutations do not affect other components.
 */
component references to the props.

```javascript
@return { } 
```

---

```javascript
export default { 
    if (arrayIncludes(propsToOmit, prop)) {
      memo[prop] = freshLinkProps[prop];
    } 

    return keys(freshLinkProps).reduce(function (memo, prop) {
      if (!arrayIncludes(propsToOmit, prop)) {
        memo[prop] = freshLinkProps[prop];
      }

      return memo;
    }, {});

  propsToOmit = concat(propsToOmit);

  return keys(freshLinkProps).reduce(function (memo, prop) {
    if (target === '_blank' && rel === null) {
      return 'noopener';
    }
    return rel || 
```
typeof this._uid !== 'undefined') {
        return '__BVID__' + this._uid;
      }
    }
  }
};

// toConsumableArray
function _toConsumableArray(arr) {
  if (Array.isArray(arr)) {
    for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) {
      arr2[i] = arr[i];
    }
    return arr2;
  } else {
    return Array.prototype.slice.call(arr);
  }
}

import { isArray } from '../utils/array';

/**
 * Issue #569: collapse::toggle::state triggered too many times
 * @link https://github.com/bootstrap-vue/bootstrap-vue/issues/569
 */

var BVRL = '__BV_root_listeners__';

export default {
  methods: {
    /**
      * Safely register event listeners on the root Vue node.
      * When a component registers a listener on root and is destroyed,
      * this orphans a callback because the node is gone,
      * but the root does not clear the callback.
      * This adds a non-reactive prop to a vm on the fly
      * in order to avoid object observation and its performance costs
      * to something that needs no reactivity.
      * It should be highly unlikely there are any naming collisions.
      * @param {string} event
      * @param {function} callback
      * @chainable
      */
    listenOnRoot: function listenOnRoot(event, callback) {
      if (!this[BVRL] || !isArray(this[BVRL])) {
        this[BVRL] = [];
      }
      this[BVRL].push({ event: event, callback: callback });
      this.$root.$on(event, callback);
      return this;
    },

    /**
      * Convenience method for calling vm.$emit on vm.$root.
      * @param {string} event
      * @param {*} args
      * @chainable
      */
    emitOnRoot: function emitOnRoot(event) {
      var _$root;

      for (var _len = arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; 

      // shift to process in order
      var _BVRL$shift = this[BVRL].shift(),
        event = _BVRL$shift.event,
        callback = _BVRL$shift.callback;

      this.$root.$off(event, callback);
    }
  },

  beforeDestroy: function beforeDestroy() {
    if (this[BVRL] && isArray(this[BVRL])) {
      while (this[BVRL].length > 0) {
        // shift to process in order
        var _BVRL$shift = this[BVRL].shift(),
          event = _BVRL$shift.event,
          callback = _BVRL$shift.callback;

        this.$root.$off(event, callback);
      }
    }
  }
};

/**
 * Log a warning message to the console with bootstrap-vue formatting sugar.
 * @param {string} message
 */
/* istanbul ignore next */
function warn(message) {
  console.warn('[' + name + ']
}
Boolean,
default: false
},
visible: {
  type: Boolean,
default: false
},
returnFocus: {
  type: Boolean,
default: false
},
okDisabled: {
  type: Boolean,
default: false
},
hideBackdrop: {
  type: Boolean,
default: false
},
okOnly: {
  type: Boolean,
default: false
},
hideHeaderClose: {
  type: Boolean,
default: false
},
ok: {
  type: Boolean,
default: false
},
hideHeader: {
  type: Boolean,
default: false
},
hideFooter: {
  type: Boolean,
default: false
},
footerTextVariant: {
  type: String,
default: null
},
footerClass: {
  type: [String, Array],
default: null
},
footerBorderVariant: {
  type: String,
default: null
},
bodyTextVariant: {
  type: String,
default: null
},
bodyBgVariant: {
  type: String,
default: null
},
bodyClass: {
  type: [String, Array],
default: null
},
bodyBgVariant: {
  type: String,
default: null
},
bodyClass: {
  type: [String, Array],
default: null
},
footerBorderVariant: {
  type: String,
default: null
},
footerTextVariant: {
  type: String,
default: null
},
hideBgVariant: {
  type: String,
default: null
},
headerBgVariant: {
  type: String,
default: null
},
headerTextVariant: {
  type: String,
default: null
},
headerBorderVariant: {
  type: String,
default: null
},
headerClass: {
  type: String,
default: null
},
bodyClass: {
  type: [String, Array],
default: null
},
bodyBgVariant: {
  type: String,
default: null
},
bodyTextVariant: {
  type: String,
default: null
},
headerBorderVariant: {
  type: String,
default: null
},
headerTextVariant: {
  type: String,
default: null
},
headerClass: {
  type: String,
default: null
},
bodyClass: {
  type: [String, Array],
default: null
},
bodyBgVariant: {
  type: String,
default: null
},
bodyTextVariant: {
  type: String,
default: null
},
footerBorderVariant: {
  type: String,
default: null
},
footerTextVariant: {
  type: String,
default: null
},
headerBgVariant: {
  type: String,
default: null
},
footerClass: {
  type: [String, Array],
default: null
},
footerBorderVariant: {
  type: String,
default: null
},
footerTextVariant: {
  type: String,
default: null
},
headerBorderVariant: {
  type: String,
default: null
},
headerTextVariant: {
  type: String,
default: null
},
headerClass: {
  type: String,
onBeforeLeave: function onBeforeLeave() {
    this.is_transitioning = true;
    this.setResizeEvent(false);
    this.onShow.css('visibility', 'visible');
    this.dispatchEvent(onBeforeLeave); // Remove the 'show' class
    this.is_show = false;
    this.is_block = false;
},

onAfterLeave: function onAfterLeave() {
    var _this4 = this;
    this.is_transitioning = false;
    this.resetAdjustments();
    this.resetScrollbar();
    this.is_transitioning = false;
}

removeClass(document.body, 'modal-open');
this.$nextTick(function () {
    this.is_hidden = this.is4.lazy ||
    false;
    this.is4.returnFocusTo();
    var hiddenEvt = new BvEvent('hidden', {
        cancelable: false,
        vueTarget: this.$vueTarget,
        target: this.$refs.modal,
        relatedTarget: null
    });
    // Event emitter emitEvent: function emitEvent(ev) {
    var type = ev.type;
    this.is_visible = this.is_visible &
    !this.noCloseOnBackdrop &
    !this.isNoFocusOnEsc;
    onEsc: function onEsc(ev) {
        // If ESC pressed, hide modal
        if (ev.keyCode === KeyCodes.ESC && this.is_visible &&
        !this.noCloseOnEsc) {
            this.hide();
        }
    },
    // Root Listener handlers
    showHandler: function showHandler(id, triggerEl) {
        if (id === this.id) {
            this.return_focus = triggerEl || null;
            this.show();
        }
    },
    hideHandler: function hideHandler(id) {
        if (id === this.id) {
            this.hide();
        }
    },
    modalListener: function modalListener(bvEvt) {
        // If another modal opens, close this one if (bvEvt.vueTarget !== this) {
            this.hide();
        }
    },
    // Focus control handlers
    focusFirst: function focusFirst() {
        // Don't try and focus if we are SSR
        if (typeof document === 'undefined') {
            return;
        }
        var content = this.$refs.content;
        var modal = this.$refs.modal;
        var activeElement = document.activeElement;
        if (activeElement && content &&
        content.contains(activeElement)) {
            // If activeElement is child of content, no need to change focus
        } else if (content) {
            if (modal) {
                modal.scrollTop = 0;
            }
            // Focus the modal content wrapper
            content.focus();
        }
    },
    returnFocusTo: function returnFocusTo() {
        // Prefer returnFocus prop over event specified return_focus value
        var el = this.returnFocus || this.return_focus || null;
        if (typeof el === 'string') {
            // CSS Selector
            el = select(el);
        }
        if (el) {
            el.focus();
        }
    },
    // Utility methods
    getScrollbarWidth: function getScrollbarWidth() {
        var scrollbarWidth = this.scrollbarWidth;
        // Adjust fixed content padding
        selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
            var actualPadding = el.style.paddingRight;
            el.style.paddingRight = scrollbarWidth + actualPadding;
        });
    },
    adjustDialog: function adjustDialog() {
        if (!this.is_visible) {
            return;
        }
        var modal = this.$refs.modal;
        var modalOverFlowing = modal.scrollHeight > document.documentElement.clientHeight;
        if (!this.isBodyOverflowing && isModalOverflowing) {
            modal.style.paddingLeft = this.scrollbarWidth;
        }
        if (!this.isBodyOverflowing && isModalOverflowing) {
            modal.style.paddingRight = this.scrollbarWidth;
        }
        resetAdjustments: function resetAdjustments() {
            var modal = this.$refs.modal;
            if (modal) {
                modal.style.paddingLeft = "";
                modal.style.paddingRight = "";
            }
            checkScrollbar: function checkScrollbar() {
                var rect = getBCR(document.body);
                this.isBodyOverflowing = rect.left + rect.right < window.innerWidth;
                this.style.setScrollbar();
            },
            setScrollbar: function setScrollbar() {
                if (this.isBodyOverflowing) {
                    Note: DOMNode.style.paddingRight returns the actual value or 0 if not set
                    while $(DOMNode).css('padding-right') returns the calculated value or 0 if not set
                    var computedStyle = window.getComputedStyle(document.body); var var body = document.body;
                    var scrollbarWidth = this.scrollbarWidth;
                    // Adjust fixed content padding
                    selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
                        var actualPadding = el.style.paddingRight;
                        el.style.paddingRight = scrollbarWidth - actualPadding;
                    });
                }
            },
        },
    };

var calculatedPadding = computedStyle(el).paddingRight || 0;
setAttr(el, 'data-padding-right', actualPadding);
el.style.paddingRight = parseFloat(calculatedPadding) + scrollbarWidth + 'px';

// Adjust sticky content margin
selectAll(Selector.STICKY_CONTENT).forEach(function (el) {
  var actualMargin = el.style.marginRight;
  var calculatedMargin = computedStyle(el).marginRight || 0;
  setAttr(el, 'data-margin-right', actualMargin);
  el.style.marginRight = parseFloat(calculatedMargin) + scrollbarWidth + 'px';
});

// Adjust body padding
var actualPadding = body.style.paddingRight;
var calculatedPadding = computedStyle(calculatedMargin) + scrollbarWidth + 'px';
body.style.paddingRight = parseFloat(calculatedPadding) + scrollbarWidth + 'px';

resetScrollbar: function resetScrollbar() {
  // Restore fixed content padding
  selectAll(Selector.FIXED_CONTENT).forEach(function (el) {
    if (hasAttr(el, 'data-padding-right')) {
      el.style.paddingRight = getAttr(el, 'data-padding-right') || '';
      removeAttr(el, 'data-padding-right');
    }
  });

  // Restore sticky content and navbar-toggler margin
  selectAll(Selector.STICKY_CONTENT + ', ' + Selector.NAVBAR_TOGGLER).forEach(function (el) {
    if (hasAttr(el, 'data-margin-right')) {
      el.style.marginRight = getAttr(el, 'data-margin-right') || '';
      removeAttr(el, 'data-margin-right');
    }
  });

  // Restore body padding
  var body = document.body;
  if (hasAttr(body, 'data-padding-right')) {
    body.style.paddingRight = getAttr(body, 'data-padding-right') || '';
    removeAttr(body, 'data-padding-right');
  }
}

mounted: function mounted() {
  // Measure scrollbar
  this.getScrollbarWidth();

  // Listen for events from other to either open or close ourselves
  this.listenOnRoot('bv::show::modal', this.showHandler);

  // Listen for show events, and close ourselves
  this.listenOnRoot('bv::modal::show', this.modalListener);

  // Initially show modal?
  if (this.visible === true) {
    this.show();
  }

  // Ensure everything is back to normal
  if (this._observer) {
    this._observer.disconnect();
    this._observer = null;
  }

  // Re-adjust body/navbar/fixed padding/margins (if needed)
  this.setResizeEvent(false);

  // Restore fixed content padding
  resetScrollbar();

  // Restore sticky content and navbar-toggler margin
  resetAdjustments();

  // Restore body padding
  resetScrollbar();

  // Re-adjust body/navbar/fixed padding/margins (if needed)
  this.resetScrollbar();

  this.$nextTick();
}

render = function () {var _vm=this;var _h=_vm.$createElement;var _c=_vm._self._c||_h;return
  _c('div',{staticClass:"embed-form"},
    [...]
  )
}
null
frameborder="0" allowfullscreen>

```javascript
IframeResizer.template(url) |

pymCodeFor (url) |

return

copyEmbedCode () |

return copyText(this.embedCode(),

div) |

then () => |

this.selectCode() |

} |

} |

selectCode () |

this.$el.querySelector('.embed-form__code').select()

} |

embedCode (withPym = this.responseCheck) |

const width = isNaN(this.width) ? Math.max(this.width, this.minWidth) : Math.max(this.height, this.minHeight) |

return withPym ? this.pymCodeFor(this.currentUrl) : this.iframeCodeFor(this.currentUrl, width, height) |

computed: |

return (url) |

IframeResizer.template(url)

} |

copyEmbedCode () |

return copyText(this.embedCode(),

div) |

then () => |

this.selectCode() |

} |

} |

selectCode () |

this.$el.querySelector('.embed-form__code').select()

} |

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} | Open Source Used In SMI 2021.01.0-Apr-2022 7587
components in child component

SocialSharing.components.Fa = require('./Fa').default

props: {
  url: {
    type: String,
    default: () => config.get('sharing-options.url', null) || IframeResizer.deletePymParams()
  },
  * URL to be shared.
  * &nbsp;default: () => config.get('sharing-options.direction', null) || 'row', 'row-reverse', 'column', 'column-reverse'.
  * &nbsp;indexOf(value) !== -1
},

/**
 * Sharing contents which can be generic
 * (<em>title</em>, <em>description</em>, etc) &nbsp;or specific to a network (<em>twitter_title</em>,
 * &nbsp;<em>facebook_description</em>, etc).
 * &nbsp;* &nbsp;@&nbsp;default: () => config.get('sharing-options.values.title')
```html
<!-- Imports -->

<template>
  <div class="follow-us">
    <button class="btn btn-link text-light follow-us__close" @click="closeSignupPopover">
      <fa icon="times" />
    </button>
    <sign-up-form class="p-3"></sign-up-form>
    <div class="px-3 pb-1 text-uppercase text-muted font-weight-bold">
      {{ $t('follow-us-popover.heading') }}
    </div>
    <div class="p-3 bg-light container-fluid text-center">
      <div class="row">
        <div class="col">
          <a href="https://twitter.com/icijorg" target="_blank" class="d-inline-block text-primary border border-primary rounded-circle bg-white follow-us__social-btn" title="Twitter">
            <fa :icon="['fab', 'twitter']" size="lg" />
            <span class="sr-only">Twitter</span>
          </a>
        </div>
        <div class="col">
          <a
```
Open Source Used In SMI 2021.01.0-Apr-2022  7595

window.$ = window.$ || {}

function(Sevent){Sevent.preventDefault();}

function(Sevent){Sevent.preventDefault();}

function(Sevent){Sevent.preventDefault();}

var staticRenderFns = [null,
]

export { render, staticRenderFns }
this.removePopper();

/* istanbul ignore next: not easy to test */
beforeDestroy: function beforeDestroy() {
  // Reset value and exit if canceled
  this.visible = false;
  this.setTouchStart(false);
  this.removePopper();
}

/*
 * If this is a touch-enabled device we add extra
 * PreventOverflow modifier that will ensure popper is never
 * bigger than the container.
 */
function setTouchStart(on) {
  var newValue = on;
  // Ensure popper event listeners are removed cleanly
  this._popper.destroy();
  this._popper = null;
}

getPopperConfig /* istanbul ignore next: can't test popper in JSDOM */: function getPopperConfig() {
  var placement = AttachmentMap.BOTTOM;
  if (this.dropup && this.right) {
    placement = AttachmentMap.TOPEND;
  } else if (this.dropup) {
    placement = AttachmentMap.BOTTOMEND;
  } else if (this.right) {
    placement = AttachmentMap.TOP;
  } else if (this.split) {
    placement = AttachmentMap.BOTTOMEnd;
  }

  var popperConfig = {
    placement: placement,
    modifiers: {
      offset: {
        offset: this.offset || 0
      },
      flip: {
        enabled: !this.noFlip
      },
      preventOverflow: {
        boundariesElement: this.boundary
      },
      boundary
    }
  }

  return assign(popperConfig, this.popperOpts || {});
}

createPopper: function createPopper(element) {
  // Ensure other menus are closed
  this.emitOnRoot('bv::dropdown::hidden', this);

  // Are we in a navbar ?
  if (this.inNavbar === null) {
    // Hide dropdown if disabled changes to true
    this.visible = false;
  }

  // Show menu
  if (this.disabled) {
    return;
  }

  this.$emit('shown');

  // Focus on the first item on show
  this.$nextTick(this.focusFirstItem);
}

focusFirstItem: function focusFirstItem() {
  // Find the first item
  var firstItem = this.$refs.menu.$el
                    .children
                    .not('.dropdown__item')
                    .first();

  // Focus on the element
  firstItem.focus();
}

getPosOnElement: function getPosOnElement() {
  // Make sure we have a reference to an element, not a component!
  element = element.$el || element;

  // Make sure we have a reference to an element, not a component!
  element = element.$el || element;

  // For popper.js</pdf>
function menuClasses() {
    return ['dropdown-menu', this.right ? 'dropdown-menu-right' : 'dropdown-menu-left',
        this.visible ? 'show' : '', this.extraMenuClasses ? this.extraMenuClasses : ''];
}
},

  props: {
    noCaret: {
        type: Boolean,
        default: false
    },
    extraToggleClasses: {
        // Extra Toggle classes
        type: String,
        default: ''
    },
    extraMenuClasses: {
        // Extra Menu classes
        type: String,
        default: ''
    },
    role: {
        type: String,
        default: 'menu'
    }
};

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; };

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 TypeError("Cannot call a class as a function"); } }

import Popper from 'popper.js';
import BvEvent from './bv-event.class';
import { assign } from './object';
import { from as arrayFrom } from './array';
import { closest, select, isVisible, isDisabled, getCS, addClass, removeClass, hasClass, setAttr, removeAttr, getAttr, eventOn, eventOff } from './dom';

var NAME = 'tooltip';
var CLASS_PREFIX = 'bs-tooltip';
var BSCLS_PREFIX_REGEX = new RegExp('\\b' + CLASS_PREFIX + '\\S+', 'g');

var TRANSITION_DURATION = 150;

// Modal $root hidden event
var MODAL_CLOSE_EVENT = 'bv::modal::hidden';
// Modal container for appending tip/popover
var MODAL_CLASS = '.modal-content';

var AttachmentMap = {
    AUTO: 'auto',
    TOP: 'top',
    RIGHT: 'right',
    BOTTOM: 'bottom',
    LEFT: 'left',
    TOPLEFT: 'top',
    TOPRIGHT: 'top',
    BOTTOMLEFT: 'bottom',
    BOTTOMRIGHT: 'bottom',
    LEFTTOP: 'left',
    LEFTBOTTOM: 'left'
};

var OffsetMap = {
    AUTO: 0,
    TOPLEFT: -1,
    TOP: 0,
    TOPRIGHT: +1,
    RIGHTTOP: -1,
    RIGHT: 0,
    RIGHTBOTTOM: +1,
    BOTTOMLEFT: -1,
    BOTTOM: 0,
    BOTTOMRIGHT: +1,
    LEFTTOP: -1,
    LEFT: 0,
    LEFTBOTTOM: +1
};

var HoverState = {
    SHOW: 'show',
    OUT: 'out'
};

var ClassName = {
    FADE: 'fade',
    SHOW: 'show'
};

var Selector = {
    TOOLTIP: '.tooltip',
    TOOLTIP_INNER: '.tooltip-inner',
    ARROW: '.arrow'
};

var Defaults = {
    animation: true,
    template: '<div class="tooltip" role="tooltip">' + '<div class="arrow"></div>' + '<div class="tooltip-inner"></div>' + '</div>',
    trigger: 'hover focus',
    title: '',
    delay: 0,
    html: false,
    placement: 'top',
    offset: 0,
    arrowPadding: 6,
    container: false,
    fallbackPlacement: 'flip',
    fallbackTrigger: 'manual',
    boundary: 'scrollParent',
   悭
    TRANSITION_END_EVENTS = [':hover', ':focus', ':click', ':blur'],
    var TransitionEndEvents = [':webkitTransitionEnd', 'transitionend'],
    var MozTransition = [':transitionend'],
    var OTransition = [':transitionend'],
    var browserTransitionEnd = [':transitionend'],
    var ClientSideTipIdCounterForAriaDescribedByAttribute = 1 // Could use Alex's uid generator util.js // Each tooltip requires a unique client side ID
};

var NEXTID = 1;

/* istanbul ignore next */
function generateId(name) {
    return '__BV_' + name + '_' + NEXTID++ + '__';
}

/*
 * ToolTip Class definition
 */
/* istanbul ignore next: difficult to test in Jest/JSDOM environment */

var ToolTip = function () {
    // Main constructor
    function ToolTip(element, config, $root) {
        _classCallCheck(this, ToolTip);

        this.$isEnabled = true;
        this.$fadeTimeout = null;
        this.$hoverTimeout = null;
        this.$visibleInterval = null;
        this.$hoverState = '';
        this.$activeTrigger = {};
        this.$popper = null;
        this.$element = element;
        this.$tip = null;
        this.$id = generateId(this.constructor.NAME);
        this.$root = $root || null;
        this.$routeWatcher = null;

        // We use a bound version of the following handlers for root/modal listeners to maintain the 'this' context
        this.$forceHide = this.forceHide.bind(this);
        this.$doHide = this.doHide.bind(this);
        this.$doShow = this.doShow.bind(this);
        this.$doDisable = this.doDisable.bind(this);
        this.$doEnable = this.doEnable.bind(this);
        // Set the configuration
        this.updateConfig(config);
    }

    // NOTE: Overridden by PopOver class
    this._createClass(ToolTip, [{
        // main constructor
        value: function updateConfig(config)
    }]);

    // Update config
```
clearTimeout(this.$fadeTimeout);this.$fadeTimeout = null;var fnOnce = function fnOnce() {
  if (called) {
    return;
  }
called = true;clearTimeout(this.$fadeTimeout);
this.$fadeTimeout = null;transEvents.forEach(function (evtName) {
  eventOff(tip, evtName, fnOnce);
});
// Call complete callback
complete();
}
if (hasClass(tip, ClassName.FADE)) {
  transEvents.forEach(function (evtName) {
    eventOn(tip, evtName, fnOnce);
  });
}
// Fallback to setTimeout
this.$fadeTimeout = setTimeout(fnOnce,
TRANSITION_DURATION);
}
else {
  fnOnce();
}

// What transition end event(s) to use?


```
function unListen() {\n
var _this7 = this;\n\n
var events = ['click', 'focusin', 'focusout', 'mouseenter',
'mouseleave'];\n
// Using \"this\" as the handler will get automagically directed to this.handleEvent\n
events.forEach(function (evt) {\n
eventOff(_this7.$element, evt, _this7);\n
}, this);\n\n
// Stop listening
for global show/hide/enable/disable events\n
this.setRootListener(false);\n }\n }, {\n key: 'handleEvent',\n
value: function handleEvent(e) {\n
// This special method allows us to use \"this\" as the event handlers\n
if
(isDisabled(this.$element)) {\n
// If disabled, don't do anything. Note: if tip is shown before element gets\n
// disabled, then tip not close until no longer disabled or forcefully closed.\n
return;\n
}\n
if
(!this.$isEnabled) {\n
// If not enable\n
return;\n
}\n
var type = e.type;\n
var target = e.target;\n
var relatedTarget = e.relatedTarget;\n
var $element = this.$element;\n
var $tip = this.$tip;\n
if (type ===
'click') {\n
this.toggle(e);\n
} else if (type === 'focusin' || type === 'mouseenter') {\n
this.enter(e);\n
}
else if (type === 'focusout') {\n
// target is the element which is loosing focus\n
// And relatedTarget is the
element gaining focus\n
if ($tip && $element && $element.contains(target) && $tip.contains(relatedTarget))
{\n
// If focus moves from $element to $tip, don't trigger a leave\n
return;\n
}\n
if ($tip &&
$element && $tip.contains(target) && $element.contains(relatedTarget)) {\n
// If focus moves from $tip to
$element, don't trigger a leave\n
return;\n
}\n
if ($tip && $tip.contains(target) &&
$tip.contains(relatedTarget)) {\n
// If focus moves within $tip, don't trigger a leave\n
return;\n
}\n
if ($element && $element.contains(target) && $element.contains(relatedTarget)) {\n
// If focus moves within
$element, don't trigger a leave\n
return;\n
}\n
// Otherwise trigger a leave\n
this.leave(e);\n
}
else if (type === 'mouseleave') {\n
this.leave(e);\n
}\n }\n\n /* istanbul ignore next */\n\n }, {\n key:
'setRouteWatcher',\n value: function setRouteWatcher(on) {\n
var _this8 = this;\n\n
if (on) {\n
this.setRouteWatcher(false);\n
if (this.$root && Boolean(this.$root.$route)) {\n
this.$routeWatcher =
this.$root.$watch('$route', function (newVal, oldVal) {\n
if (newVal === oldVal) {\n
return;\n
}\n
// If route has changed, we force hide the tooltip/popover\n
_this8.forceHide();\n
});\n
}\n
} else {\n
if (this.$routeWatcher) {\n
// cancel the route watcher by calling hte stored reference\n
this.$routeWatcher();\n
this.$routeWatcher = null;\n
}\n
}\n }\n\n /* istanbul ignore next */\n\n },
{\n key: 'setModalListener',\n value: function setModalListener(on) {\n
var modal =
closest(MODAL_CLASS, this.$element);\n
if (!modal) {\n
// If we are not in a modal, don't worry. be
happy\n
return;\n
}\n
// We can listen for modal hidden events on $root\n
if (this.$root) {\n
this.$root[on ? '$on' : '$off'](MODAL_CLOSE_EVENT, this.$forceHide);\n
}\n }\n\n /* istanbul ignore next
*/\n\n }, {\n key: 'setRootListener',\n value: function setRootListener(on) {\n
// Listen for global
'bv::{hide|show}::{tooltip|popover}' hide request event\n
if (this.$root) {\n
this.$root[on ? '$on' :
'$off']('bv::hide::' + this.constructor.NAME, this.$doHide);\n
this.$root[on ? '$on' : '$off']('bv::show::' +
this.constructor.NAME, this.$doShow);\n
this.$root[on ? '$on' : '$off']('bv::disable::' + this.constructor.NAME,
this.$doDisable);\n
this.$root[on ? '$on' : '$off']('bv::enable::' + this.constructor.NAME, this.$doEnable);\n
}\n }\n }, {\n key: 'doHide',\n value: function doHide(id) {\n
// Programmatically hide tooltip or popover\n
if (!id) {\n
// Close all tooltips or popovers\n
this.forceHide();\n
} else if (this.$element &&
this.$element.id && this.$element.id === id) {\n
// Close this specific tooltip or popover\n
this.hide();\n
}\n }\n }, {\n key: 'doShow',\n value: function doShow(id) {\n
// Programmatically show tooltip or
popover\n
if (!id) {\n
// Open all tooltips or popovers\n
this.show();\n
} else if (id && this.$element
&& this.$element.id && this.$element.id === id) {\n
// Show this specific tooltip or popover\n
this.show();\n
}\n }\n }, {\n key: 'doDisable',\n value: function doDisable(id) {\n
// Programmatically
disable tooltip or popover\n
if (!id) {\n
// Disable all tooltips or popovers\n
this.disable();\n
} else if
(this.$element && this.$element.id && this.$element.id === id) {\n
// Disable this specific tooltip or popover\n
this.disable();\n
}\n }\n }, {\n key: 'doEnable',\n value: function doEnable(id) {\n
//
Programmatically enable tooltip or popover\n
if (!id) {\n
// Enable all tooltips or popovers\n
this.enable();\n
} else if (this.$element && this.$element.id && this.$element.id === id) {\n
// Enable this
specific tooltip or popover\n
this.enable();\n
}\n }\n\n /* istanbul ignore next */\n\n }, {\n key:
'setOnTouchStartListener',\n value: function setOnTouchStartListener(on) {\n
var _this9 = this;\n\n
// if this

Open Source Used In SMI 2021.01.0-Apr-2022 7602


this.$config.animation = initConfigAnimation;
], [{
  key: 'getAttachment',
  value: function getAttachment(placement) {
    return AttachmentMap[placement.toUpperCase()];
  }
}, {
  key: 'Default',
  get: function get() {
    return Defaults;
  }
}, // NOTE: Overridden by PopOver class
], [{
  key: 'NAME',
  get: function get() {
    return NAME;
  }
});

// NOTE: Overridden by PopOver class

export default ToolTip;


```javascript
[toolpopMixin],

render: function render(h) {
  return h('div', {
    class: ['d-none'],
    style: { display: 'none' },
    attrs: { 'aria-hidden': true }
  }, [h('div', { ref: 'title' }, this.$slots.title), h('div', { ref: 'content' }, this.$slots.default)]);
}

data: function data() {
  return {};
}

createToolpop: function createToolpop() {
  // getTarget is in toolpop mixin
  var target = this.getTarget();
  if (target) {
    this._toolpop = new PopOver(target, this.getConfig(), this.$root);
  } else {
    this._toolpop = null;
    warn('b-popover: target element not found!');
  }
  return this._toolpop;
}

props: {
  title: {
    type: String,
    default: ''
  },
  content: {
    type: String,
    default: ''
  },
  triggers: {
    type: [String, Array],
    default: 'click'
  },
  placement: {
    type: String,
    default: 'right'
  }
},

methods: {
  createToolpop: function createToolpop() {
    // getTarget is in toolpop mixin
    var target = this.getTarget();
    if (target) {
      this._toolpop = new PopOver(target, this.getConfig(), this.$root);
    } else {
      this._toolpop = null;
      warn('b-popover: target element not found!');
    }
    return this._toolpop;
  }
}
```

```html
</template>

<script>
  import bDropdownItem from 'bootstrap-vue/es/components/dropdown/dropdown-item';
  import bModal from 'bootstrap-vue/es/components/modal/modal';
  import bNavDropdown from 'bootstrap-vue/es/components/nav/nav-item-dropdown';
  import bPopover from 'bootstrap-vue/es/components/popover/popover';
  import i18n from '@/i18n';
  import { headroom } from 'vue-headroom';
  import DonateForm from './DonateForm.vue';

  import { headroom } from 'vue-headroom';
  import DonateForm from './DonateForm.vue';

  export default {
    name: 'ImddbHeader',
    components: { bNavDropdown, bLabel, i18n },
    props: {
      position: {
        type: String,
        default: 'fixed'
      },
      noHeadroom: {
        type: Boolean
      },
      project: {
        type: String,
        default: () => config.get('project.name')
      },
      title: {
        type: String,
        default: () => config.get('app.name')
      },
      dropdownItems: {
        type: Array,
        default: () => config.get('imddb-header.dropdown.items')
      }
    },
    methods: { createToolpop: function createToolpop() {
        // getTarget is in toolpop mixin
        var target = this.getTarget();
        if (target) {
          this._toolpop = new PopOver(target, this.getConfig(), this.$root);
        } else {
          this._toolpop = null;
          warn('b-popover: target element not found!');
        }
        return this._toolpop;
      }
    }
  }
</script>

<template>
  <div>
    <component :is="rootElement" id="imddb-header" data-turbolinks-permanent class="navbar navbar-expand-lg navbar-light imddb-header" :offset="100" :z-index="1020" :on-unpin="closeFollowUsPopover" :class="{ 'headroom--frozen': !collapseNavbar }" :style="{ position: position }">
      <!-- @slot Redefines brand -->
      <slot name="brand">
        <a :href="homeUrl" class="navbar-brand imddb-header__brand">
          <img src="../assets/images/icij-black@2x.png" height="25" class="mr-3" />
          {{ project }}
        </a>
      </slot>
      <button class="navbar-toggler" type="button" aria-label="Toggle navigation" @click="toggleNavbar">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="navbar-collapse" :class="{ collapse: collapseNavbar }">
        <!-- @slot Redefines the main navbar block (containing the dropdown) -->
        <slot name="navbar">
          <ul class="navbar-nav mr-auto">
            <b-nav-dropdown @show="$root.$emit('bv::hide::popover')">
              <template slot="button-content">
                {{ title }}
              </template>
              <b-dropdown-item v-for="(item, $index) in dropdownItems" :key="$index" :href="item.href" v-bind="{ active: !!item.active }">
                {{ item.label }}
              </b-dropdown-item>
            </b-nav-dropdown>
          </ul>
        </slot>
        <ul class="navbar-nav">
          <li class="nav-item">
            <a href="https://www.icij.org/leak/" target="_blank" class="nav-link">
              {{ $t('imddb-header.navbar.leak') }}
            </a>
          </li>
          <li class="nav-item mr-lg-3">
            <a @click.prevent="$refs.donateFormModal.show()" href="#" class="nav-link">
              {{ $t('imddb-header.navbar.support') }}
            </a>
          </li>
          <li class="nav-item">
            <button class="btn btn-saddle-red btn-block font-weight-bold" id="follow-icij">
              {{ $t('imddb-header.navbar.follow') }}
            </button>
            <b-popover container="imddb-header" target="follow-icij" placement="bottomLeft" :show.sync="showSignupPopover">
              <follow-us-popover :show.sync="showSignupPopover"></follow-us-popover>
            </b-popover>
          </li>
        </ul>
      </div>
    </component>
    <b-modal hide-footer lazy ref="donateFormModal" size="lg">
      <span slot="modal-title" class="text-uppercase font-weight-bold text-primary">
        {{ $t('imddb-header.navbar.support') }}
      </span>
      <donate-form no-title></donate-form>
    </b-modal>
  </div>
</template>
```
the ICIJ logo and project name.

config.get('app.home')

homeUrl: {
    type: String,
    default: () =>
      this.$root.$emit('bv::hide::dropdwon')
    }

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    }

homeUrl: {
    type: String,
SharingOptions from './SharingOptions.vue'\nimport SignUpForm from './SignUpForm.vue'\nimport SlideUpDown from './SlideUpDown.vue'\nexport { \n  ContentPlaceholder, \n  DonateForm, \n  EmbeddableFooter, 
  EmbedForm, 
  FollowUsPopover, \n  Fa, \n  GenericFooter, \n  ImddbHeader, \n  ResponsiveIframe, 
  SharingOptions, \n  SignUpForm, \n  SlideUpDown, \n  Vue18n \n} \nimport Vue18n from 'vue-i18n' \nimport { basename, extname } from 'path' \nimport i18n from './i18n' \nexport { default as config } from './config' \n
export { 
  ContentPlaceholder, 
  DonateForm, 
  EmbeddableFooter, 
  EmbedForm, 
  FollowUsPopover, 
  Fa, 
  GenericFooter, 
  ImddbHeader, 
  ResponsiveIframe, 
  SharingOptions, 
  SignUpForm, 
  SlideUpDown, 
} \n
import VueI18n from 'vue-i18n' \nimport { basename, extname } from 'path' \n
import i18n from './i18n' \nexport { default as config } from './config' \nexport { default as ContentPlaceholder } from './components/ContentPlaceholder.vue' \nexport { default as DonateForm } from './components/DonateForm.vue' \nexport { default as EmbeddableFooter } from './components/EmbeddableFooter.vue' \nexport { default as EmbedForm } from './components/EmbedForm.vue' \nexport { default as FollowUsPopover } from './components/FollowUsPopover.vue' \nexport { default as Fa } from './components/Fa.vue' \nexport { default as GenericFooter } from './components/GenericFooter.vue' \nexport { default as ImddbHeader } from './components/ImddbHeader.vue' \nexport { default as ResponsiveIframe } from './components/ResponsiveIframe.vue' \nexport { default as SharingOptions } from './components/SharingOptions.vue' \nexport { default as SignUpForm } from './components/SignUpForm.vue' \nexport { default as SlideUpDown } from './components/SlideUpDown.vue' \n
import * as components from './components' \n
class Murmur { \n  static setLocaleMessage(lang, message) { \n    return this.i18n.setLocaleMessage(lang, message) \n  } \n  static mergeLocaleMessage(lang, message) { \n    return this.i18n.mergeLocaleMessage(lang, message) \n  } \n  static setLocale(lang) { \n    return this.i18n.locale = lang \n  } \n  static getLocale() { \n    return this.i18n.locale \n  } \n  static get i18n() { \n    return i18n \n  } \n  static get config() { \n    return require('./config.js').default \n  } \n  static get components() { \n    return components \n  } \n  static install (Vue, options) { \n    Object.keys(components).forEach(key => Vue.component(key, components[key])) \n  } \n} \n
export default Murmur

import './setPublicPath' \nimport mod from '~entry' \nexport default mod \nexport * from '~entry'

var assocIndexOf = require('./_assocIndexOf');

/**
 * Checks if a list cache value for `key` exists.
 *
 * @private
 * @name has
 * @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) { \n  return assocIndexOf(this.__data__, key) > -1; \n}

module.exports = listCacheHas;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` references. */
var symbolTag = '[object Symbol]';

/**
 * Checks if `value` is classified as a `Symbol` primitive
 * or object.
 *
 * @private
 * @name isSymbol
 * @memberOf Object
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.
 */
function isSymbol(value) { \n  return typeof value == 'symbol' \n    || (isObjectLike(value) && baseGetTag(value) == symbolTag) \n}

module.exports = isSymbol;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1062149670_1592570080.27/0/murmur-1-1-0-tgz/package/dist/lib/@icij/murmur.common.js.map

1.503 go-control-plane 0.10.2-0.20211130161932-f62def555c97
1.503.1 Available under license:

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Version 2.0, January 2004
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1.506 yargs-parser 20.2.4

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1.510 x-text 0.3.2

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1.511 go-openapi-jsonpointer 0.19.5
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# same person when interacting with Rietveld.

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Protocol Buffers for Go with Gadgets

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
        {Key: "feature",
         Value: types.KeyValue{
             Key: "dvs",
             Value: "vSphere Distributed Switch",
         },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}
return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
body := &methods.AddLicenseBody{
Res: &types.AddLicenseResponse{ },
}

for _, license := range m.Licenses {
if license.LicenseKey == req.LicenseKey {
body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
return body
}
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels:    req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...) return body
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{
}

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}


body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

license.AssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    return body
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
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See https://github.com/beorn7/perks/blob/master/README.md for license details.

Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/mattproud/golang_protobuf_extensions
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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `~/<path>`
- Remote file format is `~/<pod-name>:/<path>`

```
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>\`
- Remote file format is `\<pod-name\\>:\<path>\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace\\>`.

- `\<pod-namespace\\>/<pod-name\\>:\<path\\>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.
//
// For more information: http://go.dev/documentation/licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin    string
    Option    string
    Severity  string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += fmt.Sprintf(`Severity "%v" `, n.Severity)
    }
    s += n.ReplacedBy
    return s
}
s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}

1.513 liberror-perl 0.17025 1

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Source: https://metacpan.org/release/Error
Upstream-Contact: Shlomi Fish <shlomif@iglu.org.il>
Upstream-Name: Error
# Based on my original Error.pm, and Exceptions.pm by Peter Seibel
# <peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.
# but modified ***significantly***

Files: lib/Error/Simple.pm
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io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl

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#

io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
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http-proxy-agent 5.0.0

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http-proxy-agent

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out [node-https-proxy-agent](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

Install with `npm`:

```bash
$ npm install http-proxy-agent
```

Example

```js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);
```
// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});

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Found in path(s):
* /opt/cola/permits/1268307379_1644390612.12/0/http-proxy-agent-5-0-0-tgz/package/README.md

1.516 wrappy 1.0.2
1.516.1 Available under license:
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1.517 fn-name 1.1.0

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1.518 python-meld3 1.0.2 2

1.518.1 Available under license:

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

- Chris McDonough, 2005-12-18
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Chris McDonough (chrism@plope.com)

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1.519 github.com/kavu/go_reuseport 1.4.1-0.20181221084137-1f6171f327ed

1.519.1 Available under license :

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1.520 inf v0.9.1

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1.521 libxmu 1.1.2-2

1.521.1 Available under license:

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

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+ $srcdir/configure "$@"
+fi
---
+++ libxmu-1.1.2.orig/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100

+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Add $[misc:Depends] to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200

+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ from debian/rules.
+ * Remove David Nusinow from Up loaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+ 
+ +libxmu (2:1.1.0-3) unstable; urgency=low
+ 
+ * Build for multiarch.
+ 
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+ 
+ +libxmu (2:1.1.0-2) unstable; urgency=low
+ 
+  
+ [ Christopher James Halse Rogers ]
+  
+ + debian/patches/01_dont_export_private_deps.patch:
+  
+  - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+  
+  private dep. With binutils-gold, the indirect dependency on Xt is not
+  
+  considered when linking with Xmu so this causes build failures.
+  
+  
+ [ Julien Cristau ]
+  
+ + Drop Pre-Depends on x11-common, only needed for upgrades from the
+  
+  monolith.
+  
+ -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+ 
+ +libxmu (2:1.1.0-1) unstable; urgency=low
+ 
+  
+ * New upstream release.
+  
+ * Bump xutils-dev build-dep for new macros.
+  
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ 
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+  
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+  
+ libxmu-headers.install file.
+  
+  
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+  
+ * Kill *.xml in the doc directory, no point in shipping them.
+  
+ * Switch from --list-missing to --fail-missing for additional safety.
+  
+  
+ -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+ 
+ +libxmu (2:1.0.5-2) unstable; urgency=high
+ 
+  
+ [ Julien Cristau ]
+  
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+  
+  good reason. Thanks, Colin Watson!
+  
+ * Remove myself from Up loaders
+  
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+  
+ libxmu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+ [ Cyril Brulebois ]
+ * Add myself to Up loaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+ for the report.
+ + -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+ +libxmu (2:1.0.5-1) unstable; urgency=low
+ + [ Timo Aaltonen ]
+ * New upstream release.
+ + Fix 64bit support (closes: #521887)
+ + [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+ + -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+ +libxmu (2:1.0.4-2) unstable; urgency=low
+ + [ Julien Cristau ]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{-dbg}, libxmu-dev, libxmuu1{-dbg} and libxmuu-dev don't need a
+ dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
+ (closes: #486418). Thanks, Martin Koeppe!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+ + [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+ + -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+ +libxmu (2:1.0.4-1) unstable; urgency=low
+ + [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These
+ dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Up loaders, and remove Branden and Fabio with their
+ permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/

    [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100
+ libxmu (1:1.0.3-1) unstable; urgency=low
+ *
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+   XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use $[binary:Version} instead of $[Source-Version].
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+ libxmu (1:1.0.2-2) unstable; urgency=low
+ *
+ * New upstream release.
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package’s x11-common pre-dep to use version 1:7.0.0
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+ libxmu (1:1.0.2-1) experimental; urgency=low
+ *
+ * Reorder makeshlib command in rules file so that ldconfig is run
+ properly. Thanks Drew Parsons and Steve Langasek.
+
+ -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+ 
+libxmu (1:1.0.1-2) unstable; urgency=low
+
+ * Upload to unstable
+
+ -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+
+libxmu (1:1.0.1-1) experimental; urgency=low
+
+ * First upload to Debian
+
+ -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
+
+libxmu (1:6.2.3-5) breezy; urgency=low
+
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+
+libxmu (1:6.2.3-4) breezy; urgency=low
+
+ * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+
+libxmu (1:6.2.3-3) breezy; urgency=low
+
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+
+libxmu (1:6.2.3-2) breezy; urgency=low
+
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+   _XOPEN_SOURCE.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+
+libxmu (1:6.2.3-1) breezy; urgency=low
+
+ * First libxmu release.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
Source: libxmu
Section: x11
Priority: optional
Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
Build-Depends:
debhelper (>= 9), dh-autoreconf,
libx11-dev (>= 1:0.99.2),
libxt-dev (>= 1:0.99.1),
libxext-dev (>= 1:0.99.1),
pkg-config,
quilt,
automake,
libtool,
xutils-dev (>= 1:7.6+2),
xmlto (>= 0.0.22),
xorg-sgml-doctools (>= 1:1.8),
w3m,
Standards-Version: 3.9.6
Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git

Package: libxmu6
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous utility library
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.
.
More information about X.Org can be found at:
<URL:http://www.X.org>
.
This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu6-dbg
Section: debug
Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (=${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (=${binary:Version}), libxmu-
+headers (=${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+  + libx11-dev,
+  + x11proto-core-dev,
+  + ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
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+
+-------------
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*//pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,2 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*//pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
--- a/xmu.pc.in
+++ b/xmu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
 Name: Xmu
 + Description: Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11 xt
 ++Requires: xproto xt
 + Requires.private: x11 xt xext
 + CFlags: -I$[includedir]
 + Libs: -L$[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
--- a/xmuu.pc.in
+++ b/xmuu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
+@ @ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11
+ Requires.private: x11
+ CFlags: -I$[includedir]
+ Libs: -L$[libdir] -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
+#!/usr/bin/make -f
+# debian/rules for the Debian libxmu package.
+## Copyright 2004 Scott James Remnant <scott@netsplit.com>
+## Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+## Copyright 2005 David Nusinow <dnusinow@debian.org>
+
## Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%
+
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+dh_auto_configure --
+--disable-silent-rules
+--docdir=$${prefix}/share/doc/libxmu-headers
+--with-xmlto
+--without-fop
+
+override_dh_auto_install:
+dh_auto_install
+find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+dh_strip -Nlibxmu6 -Nlibxmuu1
+dh_strip -plibxmu6 --dbg-package=libxmu6-dbg
1.522 cloud-google-com-go 0.65.0
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package cloud

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "strings"  "testing"
var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
t.Parallel()
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {
        // Automatically generated.
        return nil
    }
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
        // BSD license, which is compatible, is embedded in the file.
        return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }
}

if err != nil {
    //
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
1.523 go-yaml 2.2.2

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1.524 easyjson 0.7.6
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1.525 hikaricp-java7 2.4.13

1.526 ewma 1.1.1
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1.528 libperl 5.26.1-6ubuntu0.5
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1.534 xml-apis 1.3.04
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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David Megginson, david@megginson.com
2000-05-05

1.535 google-go-cmp 0.5.6

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1.538 prometheus-client 1.2.1

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1.539 go-openapi-spec 0.19.14

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package spec

import (
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
`}

func TestIntegrationLicense(t *testing.T) {
    // const licenseYAML = "name: the name
    // url: the url\n"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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import (  "encoding/json"  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

1.540 python-dateutil 2.8.2
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1.541 stack 1.8.0

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1.542 go-runewidth 0.0.9

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1.543 gofuzz 1.0.0

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1.551 zap 1.19.1

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1.552 six 1.16.0

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Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
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1.553 ms 2.0.0

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1.554 builder 0.0.0-20180802200727-47ae307949d0

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1.555 go-zookeeper 0.0.0-20190810000440-0ceca61e4d75

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1.556 x-crypto 0.0.0-20210220033148-5ea612d1eb83

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1.557 hetznercloud-hcloud-go 1.23.1

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1.558 libxml-parser-perl 2.44-2build3

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---
abstract: 'A perl module for parsing XML documents'
author:
  - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: XML-Parser
no_index:
directory:
  - t
  - inc
requires:
  LWP::UserAgent: '0'
  perl: '5.00405'
resources:
  repository: http://github.com/toddr/XML-Parser
version: '2.44'

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/META.yml

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# LWPExternEnt.pl
#
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#
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# modify it under the same terms as Perl itself.
package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
    my ($xp, $base, $sys) = @_; # We don't use public id

    my $uri;

    if (defined $base) {
        # Base may have been set by parsefile, which is agnostic about
        # whether its a file or URI.
        my $base_uri = new URI($base);
        unless (defined $base_uri->scheme) {
            $base_uri = URI->new_abs($base_uri, URI::file->cwd);
        }
    } else {
        $uri = new URI($sys);
        unless (defined $uri->scheme) {
            $uri = URI->new_abs($uri, URI::file->cwd);
        }
    }

    my $ua = $xp->{_lwpagent};
    unless (defined $ua) {
        $ua = $xp->{_lwpagent} = new LWP::UserAgent();
        $ua->env_proxy();
    }

    my $req = new HTTP::Request('GET', $uri);

    my $res = $ua->request($req);
    if ($res->is_error) {
        $xp->{ErrorMessage} .= "\n" . $res->status_line . "$uri"
        return undef;
    }

    my $ua = $xp->{_lwpagent};
    unless (defined $ua) {
        $ua = $xp->{_lwpagent} = new LWP::UserAgent();
        $ua->env_proxy();
    }

    my $req = new HTTP::Request('GET', $uri);

    my $res = $ua->request($req);
    if ($res->is_error) {
        $xp->{ErrorMessage} .= "$n" . $res->status_line . "$uri"
        return undef;
    }
$xp->{_BaseStack} ||= [];  
push(@ {$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
  my ($xp) = @_;  

  $xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;

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/** Expat.xs  
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 **  
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 ** modify it under the same terms as Perl itself.  
 **  
 */

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

/** encoding.h
 **
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 **
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 */

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* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/Expat/encoding.h
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<![CDATA[<!ENTITY % pub "&xc9;ditions Gallimard" >
<!ENTITY   rights "All rights reserved" >
<!ENTITY   book "La Peste: Albert Camus, 
&xA9; 1947 %pub;. &rights;" >]]>

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/samples/REC-xml-19980210.xml
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XML::Parser Version 2.40

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This is a Perl extension interface to James Clark's XML parser, expat.
It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from http://sourceforge.net/projects/expat/

Best way is to install expat development package with your OS package manager.
Debian/Ubuntu/similar: libexpat1-dev (old versions: expat-dev)

After that run `cpan XML::Parser`.

You can install this module from OS package too, but CPAN has most fresh version.
CentOS/RHEL/Fedora: perl-XML-Parser
Debian/Ubuntu/similar: should be already installed
XML::Parser installation requires gcc, so on MacOS X you need to download and run Xcode from Mac app store (~1.5 GB)

The documentation for this extension can be found in pod format at the end of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

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

To manually install this module, cd to the directory that contains this README file and type the following:

perl Makefile.PL

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl

Then to build you run make.

make

You can then test the module by typing:

make test

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#!' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

    perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

make install

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing
list, to which you can subscribe by sending mail to:

subscribe-perl-xml@lyris.activestate.com

Differences from Version 2.30
=================================

Version 2.31 is a minor bugfix release to allow XML::Parser to work under the forthcoming Perl 5.8.0 release. There are no functional changes.

Differences from Version 2.29
=================================

Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from http://sourceforge.net/projects/expat/. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper
coopercc@netheaven.com

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/README

1.559 libburn 1.4.8-1

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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1.566 mergo 0.3.8

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#!/usr/bin/env python
#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively
# searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
#   $ check-license.py . > bad-files
# #
# -C switch is used to change licenses.
# Typical usage:
#   $ check-license.py -C file1 file2 ... fileN
#

import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

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SH_OLD_LICENSE = re.subn(r'(\?m)^ \*', '#', OLD_LICENSE)[0]

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
# is used for matching; NEW_LICENSE is inserted as-is.
NEW_LICENSE = "\n
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* ====================================================================

SH_NEW_LICENSE = re.subn(r'(\?m)^ \*', '#', NEW_LICENSE)[0]

re_OLD = re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(r'automatically generated by SWIG' + r'|Generated from configure\.in' + r'|placed into the public domain')

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()
def check_file(fname, old_re, new_lic):
    s = open(fname).read()
    if (not old_re.search(s)
        and not re_EXCLUDE.search(s)):
        print(fname)

def change_license(fname, old_re, new_lic):
    s = open(fname).read()
    m = old_re.search(s)
    if not m:
        print('ERROR: missing old license: %s % s' % fname)
    else:
        s = s[:m.start()] + new_lic + s[m.end():]
        open(fname, 'w').write(s)
        print('Changed: %s % s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue

        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

    def main():
        file_func = check_file
        if sys.argv[1] == '-C':
            print('Changing license text...')
            del sys.argv[1]
            file_func = change_license

        for f in sys.argv[1:]:
            if os.path.isdir(f):
                baton = file_func
                for dirpath, dirs, files in os.walk(f):
                    visit(baton, dirpath, dirs + files)
            else:
baton = file_func
dir, i = os.path.split(f)
visit(baton, dir, i)

if __name__ == '__main__':
    main()

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For the (modified) utf8proc library in subversion/libsvn_subr/utf8proc

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For the files subversion/libsvn_subr/x509parse.c and subversion/libsvn_subr/x509.h

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1.568 vfgen 0.0.0-20181202132449-6a9ea43bcacd

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1.569 gophercloud
0.0~git20170728.0.0118feec-2
1.569.1 Available under license :
package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"  
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    // ...
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
Resource *Resource `json:"resource"
}
err := r.ExtractInto(&s)
return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
--------------------
The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.
An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests
With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
```
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).
Step 6: Code Review
===================

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull
Request. As well, take advantage of the automatic testing that is done to
each commit.

### Travis-CI
If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your
commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{};

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource};

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONObject(t, r, CreateRequest)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})

package testing

import (
"testing"
"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
"github.com/gophercloud/gophercloud/pagination"
th "github.com/gophercloud/gophercloud/testhelper"
package testhelper

import "github.com/gophercloud/gophercloud/testhelper/client"

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
}
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    return
}
if err != nil {
    r.Err = err
    return
}
resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{201},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface {}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface {}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"
func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of
documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

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

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

----------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

----------

If you've noticed that a feature is missing from Gophercloud, you'll also
need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.
### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to
learn about Code Hunting.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let’s use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there’s a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
ID string `json:"id"
Name string `json:"name"
AdminStateUp bool `json:"admin_state_up"
Status string `json:"status"
Subnets []string `json:"subnets"
TenantID string `json:"tenant_id"
Shared bool `json:"shared"
}
```  

to look like

```go
type Network struct {
ID string `json:"id"
Name string `json:"name"
AdminStateUp bool `json:"admin_state_up"
Status string `json:"status"
Subnets []string `json:"subnets"
TenantID string `json:"tenant_id"
Shared bool `json:"shared"

AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```  

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it’s not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[string]` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
* Use Github’s search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

---

1.570 kubernetes-component-base 0.22.2

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1.579 go-difflib 1.0.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.585 libguestfs 1.36.13-1ubuntu3.3

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(* virt-sparsify
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(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf
open Common_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline
module G = Guestfs

type tmp_place =
  | Directory of string |
  | Block_device of string |
  | Prebuilt_file of string |

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

  (* Once we have got past argument parsing and start to create
  * temporary files (including the potentially massive overlay file), we
  * need to catch SIGINT (^C) and exit cleanly so the temporary file
  * goes away. Note that we don't delete temporaries in the signal
  * handler.
  *)
  let do_sigint _ = exit 1 in
  Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

  (* What should the output format be? If the user specified an
  * input format, use that, else detect it from the source image.
  *)
  let output_format =
    match convert with
    | Some fmt -> fmt (* user specified output conversion *)
    | None ->
match format with
  | Some fmt -> fmt  (* user specified input format, use that *)
  | None ->
    (* Don't know, so we must autodetect *)
    match (open_guestfs ())#disk_format indisk with
    | "unknown" ->
      error (f_"cannot detect input disk format; use the --format parameter")
    | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory Filename.temp_dir_name (* TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
      let g = open_guestfs () in
      if g#disk_format file <> "qcow2" then
        error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
        if not (g#disk_has_backing_file file) then
          error (f_"--tmp prebuilt:file: %s: file does not have backing file")
          file;
          Prebuilt_file file
      | Some path ->
        error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

  (* Check there is enough space in temporary directory. *)
  (match tmp_place with
    | Block_device _
    | Prebuilt_file _ -> ()
    | Directory tmpdir ->
  (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
    debug "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);

    let print_warning () =
      let free_space = StatVFS.free_space tmpdir in
      let extra_needed = virtual_size ^ free_space in
      if extra_needed > 0L then (warning (f_"\n"
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

```%

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ())
| `Warn ->
  if print_warning () then (eprintf "Press RETURN to continue or ^C to quit\n%!");
  ignore (read_line ())
);;
| `Fail ->
  if print_warning () then (eprintf "Exiting because --check-tmpdir=fail was set.\n%!");
    exit 2
    )
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
   );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
g#disk_create
match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" "qcow2" in
    unlink_on_exit tmp;
    create tmp;
    tmp
  | Block_device device ->
    create device;
    device
  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file
message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in
  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
  g#launch ();
  g

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
 * and selected swap partitions.
 *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (
fun (fs, fstype) ->
  fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (
      try
        let vol_info = g#btrfs_subvolume_show mp in
        String.find (List.assoc "Flags" vol_info) "readonly" <> -1
        with G.Error _ -> false
      ) else false
    with Not_found -> false in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L in

List.iter (
  fun fs ->
    if not (is_ignored fs) && not (is_read_only_lv fs) then ( 
      if List.mem fs zeroes then ( 
        message (f_"Zeroing %s") fs;
        g#zero_device fs;
      ) else ( 
        let mounted =
          try g#mount fs "/"; true
          with _ -> false in

        if mounted then ( 
          if is_readonly_btrfs_snapshot fs "/" then ( 
            info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
          ) else true
        )
    )
  )
) else if is_readonly_device "/" then (  
  info (f_" Skipping %s, as it is a read-only device.") fs;
) else (  
  message (f_" Fill free space in %s with zero") fs;
  g#zero_free_space "/"
)
) else (  
  let is_linux_x86_swap =  (* Look for the signature for Linux swap on i386.  
    * Location depends on page size, so it definitely won't  
    * work on non-x86 architectures (eg. on PPC, page size is  
    * 64K). Also this avoids hibernated swap space: in those,  
    * the signature is moved to a different location.  
    *)
    try g#pread_device fs 10 4086L = "SWAPSPACE2"  
      with _ -> false in
  
    if is_linux_x86_swap then (  
      message (f_" Clearing Linux swap on %s") fs;

      (* Don't use mkswap. Just preserve the header containing  
        * the label, UUID and swap format version (libguestfs  
        * mkswap may differ from guest's own).  
        *)
      let header = g#pread_device fs 4096 0L in
      g#zero_device fs;
    if g#pwrite_device fs header 0L <> 4096 then
      error (f_" pwrite: short write restoring swap partition header")
    )
  )
)
)

  g#umount_all ()
)
)
)
)
)

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (  
  fun vg ->  
    if not (List.mem vg ignores) then (  
      let lvname = String.random8 () in
      let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

      let created =  
        try g#lvcreate_free lvname vg 100; true
with _ -> false in

if created then (
  message (f_"Fill free space in volgroup %s with zero") vg;

  g#zero_device lvdev;
  g#sync ();
  g#lvremove lvdev
)
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(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the *
 * destination and automatically does sparsification. *
*)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
      | None -> ""
      | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }
    public final String getName() { return null; }
    public void checkGuard(Object obj) throws SecurityException { }
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }
    public abstract String getActions();
    public abstract boolean implies(Permission permission);
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An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

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

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

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

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@author Alan Liu
@stable ICU 2.0

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

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

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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JUnit

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1.598 kubernetes-cri-api 0.0.0-
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1.599 go-restful 2.11.2-0.20200112161605-a7c079c43d51+incompatible

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1.600 libtiff 4.3.0

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1.601 spdx-expression-parse 3.0.1

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## 1.610 pycrypto 2.6.1 8ubuntu2

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.611 npm-package-arg 9.0.0

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1.612 jcl-over-slf4j 1.7.30

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1.619 go-autorest-to 0.3.1-0.20191028180845-3492b2aff503

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1.621 github.com/go-macaron/binding 0.0.0-20190806013118-0b4f37bab25b

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1.622 urllib3 1.26.7

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1.624 python3-crypto 2.6.1-8ubuntu2

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1.626 go-runtime 1.15.2
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# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
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1.627 go-uuid 1.2.0

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1.631 screen 4.6.2-1ubuntu1.1

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1.641 open-vm-tools 11.0.5-4ubuntu0.18.04.1

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6fdc65e7d980

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1.643 path-is-absolute 1.0.1

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1.644 lxml 4.2.1

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1.648 kubernetes-component-base 0.23.1

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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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lib/hcrypto/test_dh.c

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1.653 dosfs-tools 4.1

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1.655 go-md2man 2.0.0

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1.657 async 3.2.2

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
ekubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:path`

```bash
ekubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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Mail includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form

```
set folder=letters
```

in your .mailrc file. If, as in the example above, your folder directory does not begin with a `/`, Mail will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

```
/home/person
```

the above example told Mail to find your folder directory in

```
/home/person/letters.
```

Anywhere a file name is expected, you can use a folder name, preceded with `+.' For example, to put a message into a folder with the save command, you can use:

```
save +classwork
```

to save the current message in the classwork
folder. If the .i classwork folder does not yet exist, it will be created. Note that messages which are saved with the .b save command are automatically removed from your system mailbox.

In order to make a copy of a message in a folder without causing that message to be removed from your system mailbox, use the .b copy command, which is identical in all other respects to the .b save command. For example,

```
.(l copy +classwork .)l
```
copies the current message into the .i classwork folder and leaves a copy in your system mailbox.

The .b folder command can be used to direct .i Mail to the contents of a different folder. For example,

```
.(l folder +classwork .)l
```
directs .i Mail to read the contents of the .i classwork folder. All of the commands that you can use on your system mailbox are also applicable to folders, including .b type , .b delete , and .b reply .

To inquire which folder you are currently editing, use simply:

```
.(l folder .)l
```

To list your current set of folders, use the .b folders command.
To start reading one of your folders, you can use the `\-f` option described in section 2. For example:

```bash
% Mail \-f +classwork
```

will cause `Mail` to read your `classwork` folder without looking at your system mailbox.
Messages begin with a
.e from
line, which consists of the word
.e From
followed by a user name, followed by anything, followed by
a date in the format returned by the
.e ctime
library routine described in section 3 of the Unix Programmer's
Manual. A possible
.e ctime
format date is:
.(l
Tue Dec  1 10:58:23 1981
.)l
The
.e ctime
date may be optionally followed by a single space and a
time zone indication, which
should be three capital letters, such as PDT.
.pp
Following the
.e from
line are zero or more
.e "header field"
lines.
Each header field line is of the form:
.(l
name: information
.)l
.e Name
can be anything, but only certain header fields are recognized as
having any meaning. The recognized header fields are:
earticle-id ,
e bcc ,
e cc ,
e from ,
e reply-to ,
e sender ,
e subject ,
and
e to .
Other header fields are also significant to other systems; see,
for example, the current Arpanet message standard for much more
information on this topic.
A header field can be continued onto following lines by making the
first character on the following line a space or tab character.
.pp
If any headers are present, they must be followed by a blank line.
The part that follows is called the body of the message, and must be ASCII text, not containing null characters. Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.

If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).

For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters. Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

It should be noted that some network transport protocols enforce limits to the lengths of messages.

Mail Command Description

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>t [message list]</td>
<td>type message(s).</td>
</tr>
<tr>
<td>more [message list]</td>
<td>read message(s), through the $PAGER</td>
</tr>
<tr>
<td>n</td>
<td>goto and type next message.</td>
</tr>
<tr>
<td>e [message list]</td>
<td>edit message(s).</td>
</tr>
<tr>
<td>f [message list]</td>
<td>give head lines of messages.</td>
</tr>
<tr>
<td>d [message list]</td>
<td>delete message(s).</td>
</tr>
<tr>
<td>s [message list] &lt;file&gt;</td>
<td>append message(s) to file.</td>
</tr>
<tr>
<td>u [message list]</td>
<td>undelete message(s).</td>
</tr>
<tr>
<td>R [message list]</td>
<td>reply to message sender(s).</td>
</tr>
<tr>
<td>r [message list]</td>
<td>reply to message sender(s) and all recipients.</td>
</tr>
<tr>
<td>p [message list]</td>
<td>print message list.</td>
</tr>
<tr>
<td>pre [message list]</td>
<td>make messages go back to /var/mail.</td>
</tr>
<tr>
<td>m &lt;recipient list&gt;</td>
<td>mail to specific recipient(s).</td>
</tr>
<tr>
<td>q</td>
<td>quit, saving unresolved messages in mbox.</td>
</tr>
<tr>
<td>x</td>
<td>quit, do not remove system mailbox.</td>
</tr>
<tr>
<td>h</td>
<td>print out active message headers.</td>
</tr>
<tr>
<td>!</td>
<td>shell escape.</td>
</tr>
<tr>
<td></td>
<td>[msglist] command</td>
</tr>
<tr>
<td>pi [msglist]</td>
<td>command</td>
</tr>
<tr>
<td>cd [directory]</td>
<td>chdir to directory or home if none given</td>
</tr>
<tr>
<td>fi &lt;file&gt;</td>
<td>switch to file (%=system inbox, %user=user's system inbox). + searches in your folder directory for the file.</td>
</tr>
</tbody>
</table>
set variable[=value]set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by $[SHELL:-/bin/sh] -c 'echo ...'.

The following ~ escapes are defined:
~b name ...Add names to "blind" Cc: list.
~c name ...Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messagesSame as ~f, but includes all headers.
~f messagesRead in messages.
~h Edit the header fields.
~M messagesSame as ~m, but includes all headers.
~m messagesRead in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< fileRead a file into the message buffer.
~s string Set Subject: field to string.
~t name ...Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Pipe message through command.
~:command | ~_command Execute a Mail command.
~`stringQuote a single tilde.
~. Simulate end of file on input.

The following ~ escapes are defined:
~b name ...Add names to "blind" Cc: list.
~c name ...Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messagesSame as ~f, but includes all headers.
~f messagesRead in messages.
~h Edit the header fields.
~M messagesSame as ~m, but includes all headers.
~m messagesRead in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< fileRead a file into the message buffer.
~s string Set Subject: field to string.
~t name ...Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Pipe message through command.
~:command | ~_command Execute a Mail command.
~`stringQuote a single tilde.
~. Simulate end of file on input.

OpeningBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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    SUCH DAMAGE.

@(#)mail1.nr     8.1 (Berkeley) 6/8/93

sh 1 Introduction

Mail provides a simple and friendly environment for sending and receiving mail.
It divides incoming mail into
its constituent messages and allows the user to deal with them
in any order. In addition, it provides a set of
like commands for manipulating messages and sending mail.

Mail offers the user simple editing capabilities to ease the composition
of outgoing messages, as well as providing the ability to define and send
to names which address groups of users. Finally,
Mail is able to send and receive messages across such networks as the
ARPANET, UUCP, and Berkeley network.

This document describes how to use the
Mail program to send and receive messages. The reader is not assumed to
be familiar with other message handling systems, but should be
familiar with the \$-2UNIX\$0/**

\$-1UNIX\$0 is a trademark of Bell Laboratories.

shell, the text editor, and some of the common \$-2UNIX\$0 commands.
A word of explanation is in order here concerning the name `Mail':
the original UNIX mail program was known as `/bin/mail'.
The BSD mail program was called `Mail'
to differentiate it from the older mail program.
`/bin/mail'
is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as `/usr/bin/mail';
`/usr/bin/Mail'
is simply a link for backwards compatibility.
To further confuse the issue, a second link was retained for compatibility with SystemV systems,
`mailx'.
In this document, we use the original name, `Mail',
to refer to any of these.

Here is how messages are handled:
the mail system accepts incoming messages
for you from other people
and collects them in a file, called your "system mailbox".
When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a `csh'
user, you will be notified when new mail arrives if you inform the shell of the location of your mailbox. On OpenBSD,
your system mailbox is located in the directory `/var/mail'
in a file with your login name. If your login name is `sam',
then you can make `csh'
notify you of new mail by including the following line in your `.cshrc'
file:
```
s(1)
set mail=/var/mail/sam
```
When you read your mail using `Mail',
it reads your system mailbox and separates that file into the individual messages that have been sent to you. You can then read, reply to, delete, or save these messages.

Each message is marked with its author and the date they sent it.

```
@(#)mail2.nr8.2 (Berkeley) 5/16/94
```

The `Mail` command has two distinct usages, according to whether one wants to send or receive mail. Sending mail is simple: to send a message to a user whose login name is, say, `root`, use the shell command:

```
% Mail root
> I
% Mail root
```
then type your message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
.mail
to echo `\*EOT\*` and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:

```
You have mail.
```

to alert him to the existence of your message.

If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes
.mail
to print
```
(Interrupt -- one more to kill letter)
```

Typing a second
<Control-C> causes
.mail
to save your partial letter on the file
.q dead.letter
in your home directory and abort the letter.
Once you have
sent mail to someone, there is no way to undo the act, so be
careful.

The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.

If you want to send the same message to several other people, you can list
their login names on the command line.
Thus,
```
% mail sam bob john
```
Tuition fees are due next Friday. Don't forget!!

<Control-D>
.EOT
%
```
will send the reminder to sam, bob, and john.

If, when you log in, you see the message,
```

You have mail.

You can read the mail by typing simply:

% Mail

Mail will respond by typing its version number and date and then listing the messages you have waiting. Then it will type a prompt and await your command. The messages are assigned numbers starting with 1 - you refer to the messages with these numbers.

Mail keeps track of which messages are

new (have been sent since you last read your mail) and

read (have been read by you). New messages have an

N next to them in the header listing and old, but unread messages have an

U next to them.

Mail keeps track of new/old and read/unread messages by putting a header field called

Status into your messages.

To look at a specific message, use the type command, which may be abbreviated to simply t.

For example, if you had the following messages:

N 1 root Wed Sep 21 09:21 "Tuition fees"
N 2 sam Tue Sep 20 22:55

you could examine the first message by giving the command:

type 1

which might cause

Mail to respond with, for example:

Message 1:

From root Wed Sep 21 09:21:45 1978

Subject: Tuition fees
Tuition fees are due next Wednesday. Don't forget!!

Many Mail commands that operate on messages take a message number as an argument like the type command. For these commands, there is a notion of a current message. When you enter the Mail program, the current message is initially the first one. Thus, you can often omit the message number and use, for example, !l t !l to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence, !l 1 !l would type the first message.

Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in Mail by simply typing a newline. As a special case, you can type a newline as your first command to Mail to type the first message.

If, after reading a message, you wish to immediately send a reply, you can do so with the reply command. Reply , like type , takes a message number as an argument. Mail then begins a message addressed to the user who sent you the message. You may then type in your letter in reply, followed by a <Control-D> at the beginning of a line, as before. Mail will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the
first message, you wished to reply to it, you might give the command:

```
reply
```

`i Mail` responds by typing:

```
To: root
Subject: Re: Tuition fees
```

and waiting for you to enter your letter.

You are now in the message collection mode described at the beginning of this section and

`i Mail` will gather up your message up to a `<Control-D>`. Note that it copies the subject header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used. For example, if the letter had a

```
q "To:"
```

header listing several recipients,

`i Mail` would arrange to send your reply to the same people as well. Similarly, if the original message contained a

```
q "Cc:"
```

(carbon copies to) field,

`i Mail` would send your reply to those users, too.

`i Mail` is careful, though, not too send the message to you, even if you appear in the

```
q "To:"
or
q "Cc:"
```

field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with `i Mail` might look like the following:

```
reply
To: root
```
Subject: Tuition fees

Thanks for the reminder
EOT
&
)l
.pp
The
.b reply
command is especially useful for sustaining extended conversations
over the message system, with other
.q listening
users receiving copies of the conversation. The
.b reply
command can be abbreviated to
.b r .
.pp
Sometimes you will receive a message that has been sent to
several people and wish to reply
.i only
to the person who sent it.
.b Reply
with a capital
.b R
replies to a message, but sends a copy to the sender only.
.pp
If you wish, while reading your mail, to send a message to someone,
but not as a reply to one of your messages, you can send the message
directly with the
.b mail
command, which takes as arguments the names of the recipients you wish
to send to. For example, to send a message to
.q frank,
you would do:
)l
mail frank
This is to confirm our meeting next Friday at 4.
EOT
&
)l
The
.b mail
command can be abbreviated to
.b m .
.pp
Normally, each message you receive is saved in the file
.i mbox
in your login directory at the time you leave
Often, however, you will not want to save a particular message you have received because it is only of passing interest. To avoid saving a message in `.i mbox` you can delete it using the `.b delete` command. In our example,

```
.(l
delete 1
.)l
```

will prevent `.i Mail` from saving message 1 (from root) in `.i mbox .`. In addition to not saving deleted messages, `.i Mail` will not let you type them, either. The effect is to make the message disappear altogether, along with its number. The `.b delete` command can be abbreviated to simply `.b d .`. Many features of `.i Mail` can be tailored to your liking with the `.b set` command. The `.b set` command has two forms, depending on whether you are setting a `.i binary` option or a `.i valued` option. Binary options are either on or off. For example, the `.q ask` option informs `.i Mail` that each time you send a message, you want it to prompt you for a subject header, to be included in the message. To set the `.q ask` option, you would type

```
.(l
set ask
```
Another useful Mail option is `hold`. Unless told otherwise, Mail moves the messages from your system mailbox to the file `mbox` in your home directory when you leave Mail. If you want Mail to keep your letters in the system mailbox instead, you can set the `hold` option.

Valued options are values which Mail uses to adapt to your tastes. For example, the `SHELL` option tells Mail which shell you like to use, and is specified by

```
set SHELL=/bin/csh
```

for example. Note that no spaces are allowed in "SHELL=/bin/csh."

A complete list of the Mail options appears in section 5.

Another important valued option is `crt`. If you use a fast video terminal, you will find that when you print long messages, they fly by too quickly for you to read them. With the `crt` option, you can make Mail print any message larger than a given number of lines by sending it through a paging program. This program is specified by the valued option `\BPAGER\P`. If `\BPAGER\P` is not set, a default paginator is used.

For example, most CRT users with 24-line screens should do:

```
```
set crt=24
)

Another adaptation to user needs that
.i Mail
provides is that of
.i aliases.
An alias is simply a name which stands for one or more
real user names.
.i Mail
sent to an alias is really sent to the list of real users
associated with it. For example, an alias can be defined for the
members of a project, so that you can send mail to the whole project
by sending mail to just a single name. The
.b alias
command in
.i Mail
defines an alias. Suppose that the users in a project are
named Sam, Sally, Steve, and Susan. To define an alias called
.q project
for them, you would use the
.i Mail
command:
.(l
alias project sam sally steve susan
.)l
The
.b alias
command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named
.q "Bob Anderson"
had the login name
.q anderson,"
you might want to use:
.(l
alias bob anderson
.)l
so that you could send mail to the shorter name,
.q bob.
.pp
While the
.b alias
and
.b set
commands allow you to customize
.i Mail,
they have the drawback that they must be retyped each time you enter
.i Mail.
To make them more convenient to use,
.i Mail
always looks for two files when it is invoked. It first reads
a system wide file
.q /etc/mail.rc,
then a user specific file,
.q .mailrc,
which is found in the user's home directory.
The system wide file
is maintained by the system administrator and
contains
.b set
commands that are applicable to all users of the system.
The
.q .mailrc
file is usually used by each user to set options the way he likes
and define individual aliases.
For example, my .mailrc file looks like this:
.(l
set ask nosave SHELL=/bin/csh
.)l
As you can see, it is possible to set many options in the
same
.b set
command. The
.q nosave
option is described in section 5.
.pp
Mail aliasing is implemented
at the system-wide level
by the mail delivery
system
.i sendmail.
These aliases are stored in the file /etc/mail/aliases and are
accessible to all users of the system.
The lines in /etc/mail/aliases are of
the form:
.(l
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>
.)l
where
.i alias
is the mailing list name and the
are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command

newaliases

(as superuser)

after editing /etc/mail/aliases since the delivery system uses an indexed file created by

newaliases.

We have seen that

Mail

can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the

rb -f

flag on the command line causes

Mail
to read messages from a file other than your system mailbox. For example, if you have a collection of messages in the file

letters

you can use

Mail
to read them with:

(l
% Mail -f letters
)l

You can use all the

Mail
commands described in this document to examine, modify, or delete messages from your

letters
file, which will be rewritten when you leave

Mail
with the

quit

command described below.

Since mail that you read is saved in the file

mbox
in your home directory by default, you can read

mbox
in your home directory by using simply

(l
% Mail -f
)l
Normally, messages that you examine using the `b type` command are saved in the file `q mbox` in your home directory if you leave `i Mail` with the `b quit` command described below.

If you wish to retain a message in your system mailbox you can use the `b preserve` command to tell `i Mail` to leave it there.

The `b preserve` command accepts a list of message numbers, just like `b type` and may be abbreviated to `b pre`.

Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically.

If you wish to have such a message saved in `i mbox` without reading it, you may use the `b mbox` command to have them so saved. For example,

```
>1 mbox 2
>1
```

in our example would cause the second message (from sam) to be saved in `i mbox` when the `b quit` command is executed.

`b Mbox` is also the way to direct messages to your `i mbox` file if you have set the `q hold` option described above.

`b Mbox` can be abbreviated to `b mb`.
When you have perused all the messages of interest, you can leave
`Mail`
with the
`quit` command, which saves the messages you have typed but not
deleted in the file
`mbox`
in your login directory. Deleted messages are discarded irretrievably,
and messages left untouched are preserved in your system mailbox so
that you will see them the next time you type:
```
(l
% Mail
)l
```
The `quit` command can be abbreviated to simply
`q`.
```
If you wish for some reason to leave
`Mail`
quickly without altering either your system mailbox or
`mbox`,
you can type the
`x` command (short for
`exit`),
which will immediately return you to the Shell without changing anything.
```
If, instead, you want to execute a Shell command without leaving
`Mail`,
you
can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:
```
!date
```
will print the current date without leaving
`Mail`.
```
Finally, the
`help` command is available to print out a brief summary of the
`Mail` commands, using only the single character command abbreviations.
```
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@(#)maila.nr 8.1 (Berkeley) 6/8/93

$OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 jmc Exp$

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THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Several Mail commands accept a list of messages as an argument. Along with `type` and `delete`, described in section 2, there is the `from` command, which prints the message headers associated with the message list passed to it.

The `from` command is particularly useful in conjunction with some of the message list features described below.

A message list consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters `^`, `.` or `$` to specify the first relevant, current, or last relevant message, respectively.

Relevant here means, for most commands...
A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash. Thus, to print the first four messages, use:

```
(type 1-4)
```

and to print all the messages from the current message to the last message, use:

```
(type .-$)
```

A name is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by

```
(type root)
```

As a shorthand notation, you can specify simply

```
(type *)
```

print all undeleted messages,
deletes all undeleted messages, and
\( \texttt{\langle l undelete * \rangle l} \)
undeletes all deleted messages.

You can search for the presence of a word in subject lines with
\( \texttt{\langle b / . \rangle l} \)
For example, to print the headers of all messages that contain the word
\( \texttt{q PASCAL,} \)
do:
\( \texttt{\langle l from /pascal \rangle l} \)
Note that subject searching ignores upper/lower case differences.

This section describes all the
\( \texttt{Mail} \)
commands available when receiving mail.
\( \texttt{\langle b \-P \ \rangle l} \)
The
\( \texttt{\langle b \-P \ \rangle l} \)
command goes to the previous message and prints it. The
\( \texttt{\langle b \-P \ \rangle l} \)
command may be given a decimal number
\( \texttt{\langle i n \rangle l} \)
as an argument, in which case the
\( \texttt{\langle i n \rangle l} \)
previous message is gone to and printed.
\( \texttt{\langle b \?-\fP \ \rangle l} \)
Prints a brief summary of commands.
\( \texttt{\langle b !\fP \ \rangle l} \)
Used to preface a command to be executed by the shell.
\( \texttt{\langle b \Print\fP \ \rangle l} \)
Like
\( \texttt{\langle b print ,} \)
but also print out ignored header fields. See also
\( \langle b \Print\fP, \langle b \Bignore\fP, \langle b \Bretain\fP. \)
\( \langle b \Print\fP \) can be abbreviated to \( \langle b \Print\fP. \)
\( \langle b \Reply\fP \) or \( \langle b \Respond\fP \)
Note the capital \( \langle b \Reply\fP \) in the name.
Frame a reply to one or more messages.
The reply (or replies if you are using this on multiple messages)
will be sent ONLY to the person who sent you the message
(respectively, the set of people who sent the messages you are
You can add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with \fB"Re:"\fP unless it already began thus. If the original message included a \fB"reply-to"\fP header field, the reply will go \fB"only\fP to the recipient named by \fB"reply-to."P You type in your message using the same conventions available to you through the \fBmail\fP command. The \fBReply\fP command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often. \fBReply\fP (and \fBRespond\fP) can be abbreviated to \fB"R\fP. \fBType\fP can be abbreviated to \fB"T\fP. \fBalias\fP Define a name to stand for a set of other names. This is used when you want to send messages to a certain group of people and want to avoid retyping their names. For example \fBalias project john sue willie kathryn\fP creates an alias \fBproject\fP which expands to the four people John, Sue, Willie, and Kathryn. If no arguments are given, all currently-defined aliases are printed. If one argument is given, that alias is printed (if it exists). \fBAlias\fP can be abbreviated to \fB\fP. If you have accounts on several machines, you may find it convenient to use \fB/etc/mail/aliases\fP on all the machines except one to direct your mail to a single account. The \fBalternates\fP
command is used to inform

Mail

that each of these other addresses is really

you.

Alternates
takes a list of user names and remembers that they are all actually you.

When you

reply
to messages that were sent to one of these alternate names,

Mail

will not bother to send a copy of the message to this other address (which

would simply be directed back to you by the alias mechanism).

If

alternates

is given no argument, it lists the current set of alternate names.

Alternates

is usually used in the .mailrc file.

Alternates can be abbreviated to alt.

The

chdir

command allows you to change your current directory.

Chdir

takes a single argument, which is taken to be the pathname of

the directory to change to. If no argument is given,

chdir

changes to your home directory.

Chdir can be abbreviated to c.

copy

The
copy command does the same thing that

save does, except that it does not mark the messages it is used on

for deletion when you quit.

Copy can be abbreviated to co.

dp or dt

These

cmds delete the current message and print the next message.

They are useful for quickly reading and disposing of mail.

If there is no next message, Mail says `No more messages.'
To edit individual messages using the text editor, the `.b edit` command is provided. The `.b edit` command takes a list of messages as described under the `.b type` command and processes each by writing it into the file `Message\c ix` where `ix` is the message number being edited and executing the text editor on it. When you have edited the message to your satisfaction, write the message out and quit, upon which `.i Mail` will read the message back and remove the file. `.b Edit` can be abbreviated to `.b e`. `.ip "\fBelse\fP \ " Marks the end of the then-part of an `.b if` statement and the beginning of the part to take effect if the condition of the `.b if` statement is false. `.ip "\fBendif\fP \ " Marks the end of an `.b if` statement. `.ip "\fBexit\fP or \fBxit\fP \ " Leave `.i Mail` without updating the system mailbox or the file you were reading. Thus, if you accidentally delete several messages, you can use `.b exit` to avoid scrambling your mailbox. `.fBExit\fP` can be abbreviated to `.fBex\fP` or `.fBx\fP`. `.ip "\fBfile\fP \ " The same as `.b folder` . `.fBFile\fP` can be abbreviated to `.fBfi\fP`. `.ip "\fBfolders\fP \ " List the names of the folders in your folder directory. `.ip "\fBfolder\fP \ " The `.b folder` command switches to a new mail file or folder. With no arguments, it
tells you which file you are currently reading. If you give
it an argument, it will write out changes (such as deletions)
you have made in the current file and read the new file.
Some special conventions are recognized for the name:
_.ts
center;
.~
l a.
Name	Meaning
--
#Previous file read
\%	Your system mailbox
\%	namel\tName's system mailbox
&Your ~/mbox file
+folderA file in your folder directory
.\te
.\tfolderP can be abbreviated to \tfo\tP.
.\tfrom
The
.b from
command takes a list of messages and prints out the header lines for each one;
hence
.\tfrom joe
.l
is the easy way to display all the message headers from \t(lqjoe\trq
\tBFrom\tP can be abbreviated to \tBf\tP.
.\theaders
When you start up
.i Mail
to read your mail, it lists the message headers that you have.
These headers tell you who each message is from, when they were
received, how many lines and characters each message is, and the
.q "Subject:"
header field of each message, if present. In addition,
.i Mail
tags the message header of each message that has been the object
of the
.b preserve
command with a
.q P.
Messages that have been
.b saved
or
.b written
are flagged with a
Finally, deleted messages are not printed at all. If you wish to reprint the current list of message headers, you can do so with the `headers` command. The `headers` command (and thus the initial header listing) only lists the first so many message headers. The number of headers listed depends on the speed of your terminal.

Maintains a notion of the current window into your messages for the purposes of printing headers. Use the `z` command to move forward a window, and `z-` to move back a window. You can move `Mail`'s notion of the current window directly to a particular message by using, for example, `headers 40` to move `Mail`'s attention to the messages around message 40. `Headers` can be abbreviated to `h`.

Print a brief and usually out of date help message about the commands in `Mail`. The `man` page for `mail` is usually more up-to-date than either the help message or this manual. It is also a synonym for `?`.

Arrange to hold a list of messages in the system mailbox, instead of moving them to the file `mbox` in your home directory. If you set the binary option...
.i hold,
this will happen by default.
It does not override the \fBdelete\fP command.
\fBHold\fP can be abbreviated to \fBho\fP.
.ip "\fBif\fP\fP"
Commands in your
.q .mailrc
file can be executed conditionally depending on whether you are
sending or receiving mail with the
.b if
command. For example, you can do:
.(l
if receive
\fIcommands\fP...
endif
).(l
An
.b else
form is also available:
.(l
if send
\fIcommands\fP...
else
\fIcommands\fP...
endif
).(l
Note that the only allowed conditions are
.b receive
and
.b send.
.ip "\fBignore\fP \fP"
.b N.B.:
.i Ignore
has been superseded by
.i retain.
.br
Add the list of header fields named to the
.i "ignore list".
Header fields in the ignore list are not printed on your
terminal when you print a message. This allows you to suppress
printing of certain machine-generated header fields, such as
.i Via
which are not usually of interest. The
.b Type
and
.b Print
commands can be used to print a message in its entirety, including
ignored fields.
If
.b ignore
is executed with no arguments, it lists the current set of ignored fields.
.ip "Binc \ "
Incorporate any new messages that have arrived while mail is being read.
The new messages are added to the end of the message list, and the current message is reset to be the first new mail message. This does not renumber the existing message list, nor does it cause any changes made so far to be saved.
.ip "Blist \ "
List the valid Mail commands.
\BList\ can be abbreviated to \Bl\.
.. ip \BlOBlocal\OP
.. Define a list of local names for this host. This command is useful when the host is known by more than one name. Names in the list may be qualified by the domain of the host. The first name on the local list is the distinguished name of the host. The names on the local list are used by Mail to decide which addresses are local to the host. For example:
.. (l
.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \ucb-arpa.ARPA
.. )l
.. From this list we see that \i "fred@ucbarpa.BERKELEY.ARPA",
.. \i "harold@arpa.BERKELEY",
.. and
.. \i "larry@r"
.. are all addresses of users on the local host.
.. The .b local command is usually not used by general users since it is designed for local configuration; it is usually found in the file /usr/lib/Mail.rc.
.ip "Bmail \ "
Send mail to one or more people. If you have the \i ask\ option set, Mail will prompt you for a subject to your message. Then you can type in your message, using tilde escapes as described in section 4 to edit, print, or modify your message. To signal your
satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
.b ~q
or
.b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
.ip "\fBmbox\fP \n"
Indicate that a list of messages be sent to
.i mbox
in your home directory when you quit. This is the default
action for messages if you do
.i not
have the
.i hold
option set.
.ip "\fBmore\fP \n"
Takes a message list and invokes the pager on that list.
.ip "\fBnext\fP or \fB+\fP \n"
The
.b next
command goes to the next message and types it. If given a message list,
.b next
goes to the first such message and types it. Thus,
.(l
next root
.)(l
goes to the next message sent by
.q root
and types it. The
.b next
command can be abbreviated to simply a newline, which means that one
can go to and type a message by simply giving its message number or
one of the magic characters
.q "^"n
.q ".".
or
.q "$".
Thus,
.(l
\&.
.)(l
prints the current message and
.(l
4
prints message 4, as described previously.

`Next` can be abbreviated to `n`.

`preserve` can be abbreviated to `pre`.

Cause a list of messages to be held in your system mailbox when you quit.

`Preserve` can be abbreviated to `pre`.

`print` prints the specified messages. If the `crt` variable is set, messages longer than the number of lines it indicates are paged through the command specified by the `PAGER` variable.

The `print` command can be abbreviated to `p`.

`quit` terminates the session, saving all undeleted, unsaved and unwritten messages in the user's `Inbox` file in their login directory (messages marked as having been read), preserving all messages marked with `hold` or `preserve` or never referenced in their system mailbox.

Any messages that were deleted, saved, written, or saved to `Inbox` are removed from their system mailbox.

If new mail has arrived during the session, the message `You have new mail` is given. If given while editing a mailbox file with the `f` flag, then the edit file is rewritten.

A return to the Shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the `exit` command.

`Quit` can be abbreviated to `q`.

`reply` or `respond` frame a reply to a single message.

The reply will be sent to the person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can add people using the `~t`, `~c`, and `~b` tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with `Re:` unless it already began thus.

If the original message included a `reply-to` header field, the reply will go `only` to the recipient named by `reply-to`.

You type in your message using the same conventions available to you through the `mail` command.
The \texttt{reply} (and \texttt{respond}) command can be abbreviated to \texttt{r}.
\begin{verbatim}
.\texttt{ip} "\texttt{\textbackslash r}\n"
\end{verbatim}
Add the list of header fields named to the \texttt{retained} list.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The \texttt{Type} and \texttt{Print} commands can be used to print a message in its entirety.
If
\texttt{retain}
is executed with no arguments, it lists the current set of
retained fields.
\begin{verbatim}
.\texttt{ip} "$\texttt{\textbackslash \textbackslash r}\n"
\end{verbatim}
It is often useful to be able to save messages on related topics
in a file. The \texttt{save} command gives you the ability to do this. The
\texttt{save} command takes as an argument a list of message numbers, followed by
the name of the file in which to save the messages. The messages
are appended to the named file, thus allowing one to keep several
messages in the file, stored in the order they were put there.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
An example of the
\texttt{save} command relative to our running example is:
\begin{verbatim}
 (l
 s 1 2 tuitionmail
 )l
\end{verbatim}
\texttt{Saved} messages are not automatically saved in
\texttt{mbox}
at quit time, nor are they selected by the
\texttt{next} command described above, unless explicitly specified.
\texttt{save} can be abbreviated to \texttt{s}.
\begin{verbatim}
.\texttt{ip} "$\texttt{\textbackslash \textbackslash s}\n"
\end{verbatim}
\texttt{save} is to \texttt{save} what \texttt{ignore} is to \texttt{print} and \texttt{type}.
Header fields thus marked are filtered out when saving a message
by \texttt{save} or when automatically saving to \texttt{mbox}.
\begin{verbatim}
.\texttt{ip} "$\texttt{\textbackslash \textbackslash s\textbackslash r}\n"
\end{verbatim}
\texttt{save} is to \texttt{save} what \texttt{retain} is to \texttt{print} and \texttt{type}.

Header fields thus marked are the only ones saved with a message when saving by `save` or when automatically saving to `inbox`. `saveretain` overrides `saveignore`.

```
"fbsetfp"
```

Set an option or give an option a value. Used to customize `Mail`.

Section 5.3 contains a list of the options. Options can be
`binary`, in which case they are `on` or `off`, or `valued`.

To set a binary option
`option on`, do
```
(fbsetfp)
```

To give the valued option `option` the value `value`, do
```
(fbsetfp=option=value)
```

There must be no space before or after the ``='' sign.

If no arguments are given, all variable values are printed.
Several options can be specified in a single
`set` command.

`fbsetfp` can be abbreviated to `fbsetp`.

```
"fbslip"
```

The `shell` command allows you to escape to the shell.

`Shell` invokes an interactive shell and allows you to type commands to it.

When you leave the shell, you will return to `Mail`.

The shell used is a default assumed by `Mail`;
you can override this default by setting the valued option `SHELL`. 
eg:

```
!l
set SHELL=/bin/csh
!l
```

\texttt{Shell} can be abbreviated to \texttt{sh}.

```
!p "!p size!p \n"
Takes a message list and prints out the size in characters of each message.
```

```
!p "!p source!p \n"
The \texttt{source} command reads \texttt{mail} commands from a file. It is useful when you are trying to fix your \texttt{mailrc} file and you need to re-read it.

```
!p "!p topline!p \n"
The \texttt{top} command takes a message list and prints the first five lines of each addressed message. If you wish, you can change the number of lines that \texttt{top} prints out by setting the valued option \texttt{"toplines."} On a CRT terminal,

```
!l
set toplines=10
!l
```

might be preferred.

```
!p "!p Btop!p \n"
```

Same as \texttt{print}.

```
!p "!p type!p \n"
```

Takes a message list and types out each message on the terminal. The \texttt{type} command can be abbreviated to \texttt{t}.

```
!p "!p undelete!p \n"
```

Takes a list of names defined by \texttt{alias} commands and discards the remembered groups of users. The group names no longer have any significance.

```
!p "!p unread!p \n"
```

Takes a message list and marks each message as \texttt{not} being deleted.

```
!p "!p undelete!p \n"
```

Takes a message list and marks each message as \texttt{not} having been read.
Unread can be abbreviated to \texttt{un}.

\texttt{unset} \texttt{"\ "}

Takes a list of option names and discards their remembered values; the inverse of \texttt{set}.

\texttt{visual} \texttt{"\ "}

It is often useful to be able to invoke one of two editors, based on the type of terminal one is using. To invoke a display oriented editor, you can use the \texttt{visual} command. The operation of the \texttt{visual} command is otherwise identical to that of the \texttt{edit} command.

Both the \texttt{edit} and \texttt{visual} commands assume some default text editors.

The default for \texttt{EDITOR} is \texttt{/usr/bin/ex}.

The default for \texttt{VISUAL} is \texttt{/usr/bin/vi}.

These default editors can be overridden by the valued options \texttt{EDITOR} and \texttt{VISUAL} for the standard and screen editors. You might want to do:

\(\texttt{set EDITOR=/bin/ed VISUAL=/usr/bin/mg}\)

Visual can be abbreviated to \texttt{v}.

\texttt{write} \texttt{"\ "}

The \texttt{save} command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the \texttt{write} command. The \texttt{write} command has the same syntax as the
.b save
command, and can be abbreviated to simply
.b w .
Thus, we could write the second message by doing:
.l
w 2 file.c
.l
As suggested by this example, the
.b write
command is useful for such tasks as sending and receiving
source program text over the message system.
The filename in quotes, followed by additional file information,
is echoed on the user's terminal.
.ip "/fBz/fP\" 
.i Mail
presents message headers in windowfuls as described under
the
.b headers
command.
You can move
.i Mail's
attention forward to the next window by giving the
.l
z+
.l
command. Analogously, you can move to the previous window with:
.l
z-
.l
.sh 2 "Custom options"
.pp
Throughout this manual, we have seen examples of binary and valued options.
This section describes each of the options in alphabetical order, including
some that you have not seen yet.
To avoid confusion, please note that the options are either
all lower case letters or all upper case letters. When I start a sentence
such as:
.q "Ask"
causes
.i Mail
to prompt you for a subject header,
I am only capitalizing
.q ask
as a courtesy to English.
.ip "/fBEDITOR\" 
The valued option
.q EDITOR
defines the pathname of the text editor to be used in the
.b edit
command and ~e escape.
If not defined,
.i /usr/bin/ex
is used.
.ip "\fBLISTER\fP\ 
Pathname of the directory lister to use in the \fBfolders\fP command.
Default is \fI/bin/ls\fP.
.ip "\fBMBOX\fP\ 
The name of the \fI/mbox\fP file.
It can be the name of a folder.
The default is `mbox'' in the user's home directory.
.ip "\fBPAGER\fP\ 
Pathname of the program to use for paginating output when
it exceeds \fI/crt\fP lines.
A default paginator is used if this option is not defined.
.ip "\fBSHELL\fP\ 
The valued option
.q SHELL
gives the path name of your shell. This shell is used for the
.b !
command and ~! escape. In addition, this shell expands
file names with shell metacharacters like * and ? in them.
.ip "\fBVISUAL\fP\ 
The valued option
.q VISUAL
defines the pathname of the screen editor to be used in the
.b visual
command
and ~v escape.
If not defined,
.i /usr/bin/vi
is used.
.ip "\fBappend\fP\ 
The
.q append
option is binary and
causes messages saved in
.i mbox
to be appended to the end rather than prepended.
Normally, \fIMail\fP will put messages in \fI/mbox\fP
in the same order that the system puts messages in your system mailbox.
By setting
.q append,
you are requesting that
.i mbox
be appended to regardless. It is in any event quicker to append.
.ip "\fBask\fP\ 

.q "Ask"
is a binary option which
causes
.i Mail
to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.
.ip "\fBAskbcc\fP\ "
.q Askbcc
is a binary option which
does not cause you to be prompted for additional blind carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.
.ip "\fBAskcc\fP\ "
.q Askcc
is a binary option which
does not cause you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.
.ip "\fBautoinc\fP\ "
Causes new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the \fBin\fP command at each prompt, except that the current message is not reset when new mail arrives.
.ip "\fBautoprint\fP\ "
.q Autoprint
is a binary option which
does not cause the
.b delete
command to behave like
.b dp
\*- thus, after deleting a message, the next one will be typed automatically. This is useful when quickly scanning and deleting messages in your mailbox.
.ip "\fBcrt\fP\ "
The valued option
.i crt
is used as a threshold to determine how long a message must be before
.b PAGER
is used to read it.
.ip "\fBdebug\fP\ "
The binary option
.q debug
causes debugging information to be displayed. Use of this option is the same as using the \fB-v\fP command line flag.
.ip "\fBdot\fP\ "
.q Dot
is a binary option which, if set, causes
.i Mail
to interpret a period alone on a line as the terminator
of the message you are sending.

To allow you to change the escape character used when sending
mail, you can set the valued option

\q escape.

Only the first character of the
\q escape
option is used, and it must be doubled if it is to appear as
the first character of a line of your message. If you change your escape
caracter, then ~ loses all its special meaning, and need no longer be doubled
at the beginning of a line.

The name of the directory to use for storing folders of messages.
If this name begins with a `/`

\i Mail
considers it to be an absolute pathname; otherwise, the folder directory
is found relative to your home directory.

The binary option

\q hold
causes messages that have been read but not manually dealt with
to be held in the system mailbox. This prevents such messages from
being automatically swept into your \fImbox\fP file.

The binary option

\q ignore
causes \<Control-C> characters from your terminal to be ignored and echoed
as @’s while you are sending mail. \<Control-C> characters retain their
original meaning in

\i Mail
command mode.

Setting the

\q ignore
option is equivalent to supplying the

\b \-i
flag on the command line as described in section 6.

An option related to

\q dot
is

\q ignoreeof,
which makes

\i Mail
refuse to accept a \<Control-D> as the end of a message.

\i Mail
also applies to
command mode.

.String used by the \fB~m\fP tilde escape for indenting messages, in place of the normal tab character (`^I').

Be sure to quote the value if it contains spaces or tabs.

.option causes

.to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

.where

.is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

.save a message, 

.usually discards it when you .quit .

.To retain all saved messages, set the 

.option.

.When sending mail to an alias, 

.makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option .metoo.

.The binary option 

suppresses the printing of the version and headers when 

.is first invoked. Setting this option is the same as using 

.on the command line.

Normally,
when you abort a message with two <Control-C>'s, 
.i Mail
copies the partial letter to the file 
.q dead.letter
in your home directory. Setting the binary option 
.q nosave
prevents this.
.ip "\fBReply\fP\ "
Reverses the sense of 
.i reply 
and 
.i Reply 
commands. 
.ip "\fBquiet\fP\ "
The binary option 
.q quiet
suppresses the printing of the version when 
.i Mail
is first invoked, 
as well as printing the for example 
.q "Message 4;"
from the 
.b type 
command. 
.ip "\fBrecord\fP\ "
If you love to keep records, then the 
valued option 
.q record
can be set to the name of a file to save your outgoing mail. 
Each new message you send is appended to the end of the file. 
.ip "\fBscreen\fP\ "
When 
.i Mail
initially prints the message headers, it determines the number to 
print by looking at the speed of your terminal. The faster your 
terminal, the more it prints. 
The valued option 
.q screen
overrides this calculation and 
specifies how many message headers you want printed. 
This number is also used for scrolling with the 
.b z 
command. 
.ip "\fBsearchheaders\fP\ "
If this option is set, then a message-list specifier in the form 
`/x:y' will expand to all messages containing the substring 
`y' in the header field `x'. 
The string search is case insensitive.
If `x' is omitted, it will default to the `"Subject" header field. The form `"/to:y" is a special case, and will expand to all messages containing the substring `y' in the `"To", `"Cc", or `"Bcc" header fields. The check for `"to" is case sensitive, so that `"/To:y" can be used to limit the search for `y' to just the `"To:" field.

To use an alternate mail delivery system, set the .q sendmail option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

The valued option .q toplines defines the number of lines that the .q top command will print out instead of the default five lines.

The binary option "verbose" causes .i Mail to invoke sendmail with the .b \-v flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking .i Mail with the .b \-v flag as described in section 6.

"$OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $"
"Copyright (c) 1980, 1993
"The Regents of the University of California. All rights reserved.
"Redistribution and use in source and binary forms, with or without
"modification, are permitted provided that the following conditions
"are met:
"1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
"2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
"3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
"THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
This section contains the definitions of a few phrases peculiar to Mail.

Alias
An alternative name for a person or list of people.

Flag
An option, given on the command line of Mail, prefaced with a `-`. For example, `-f` is a flag.

Header Field
At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include `to`, `cc`, and `subject`.

Mail
A collection of messages. Often used in the phrase, "Have you read your mail?"

Mailbox
The place where your mail is stored, typically in the directory `/var/mail`.

Message
A single letter from someone, initially stored in your mailbox.

Message List
A string used in command mode to describe a sequence of messages.

Option
A piece of special purpose information used to tailor
Mail to your taste.
Options are specified with the 
set command.

"OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
" Copyright (c) 1980, 1993
" The Regents of the University of California. All rights reserved.
" Redistribution and use in source and binary forms, with or without
" modification, are permitted provided that the following conditions
" are met:
" 1. Redistributions of source code must retain the above copyright
"     notice, this list of conditions and the following disclaimer.
" 2. Redistributions in binary form must reproduce the above copyright
"     notice, this list of conditions and the following disclaimer in the
"     documentation and/or other materials provided with the distribution.
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" @(#)mail0.nr 8.1 (Berkeley) 6/8/93
" Mail Reference Manual
(mo/
(dy/
(yr'%
.tp
.sp 1.0i
.sz 12
This section gives a quick summary of the commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>Same as \fBnext\fP</td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of \fIMail\fP commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>Print</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>Reply</td>
<td>Reply to author of message only</td>
</tr>
<tr>
<td>Respond</td>
<td>Same as \fBReply\fP</td>
</tr>
<tr>
<td>Type</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>alias</td>
<td>Define an alias as a set of user names</td>
</tr>
<tr>
<td>alternates</td>
<td>List other names you are known by</td>
</tr>
<tr>
<td>chdir</td>
<td>Change working directory, home by default</td>
</tr>
<tr>
<td>copy</td>
<td>Copy a message to a file or folder</td>
</tr>
<tr>
<td>delete</td>
<td>Delete a list of messages</td>
</tr>
<tr>
<td>dp</td>
<td>Same as \fBdt\fP</td>
</tr>
<tr>
<td>dt</td>
<td>Delete current message, type next message</td>
</tr>
<tr>
<td>edit</td>
<td>Edit a list of messages</td>
</tr>
<tr>
<td>else</td>
<td>Start of else part of conditional; see \fBif\fP</td>
</tr>
<tr>
<td>endif</td>
<td>End of conditional statement; see \fBif\fP</td>
</tr>
<tr>
<td>exit</td>
<td>Leave mail without changing anything</td>
</tr>
<tr>
<td>file</td>
<td>Interrogate/change current mail file</td>
</tr>
<tr>
<td>folder</td>
<td>Same as \fBfile\fP</td>
</tr>
<tr>
<td>folders</td>
<td>List the folders in your folder directory</td>
</tr>
</tbody>
</table>
fromList headers of a list of messages
headersList current window of messages
helpSame as \B?\P
holdSame as \Bpreserve\P
ifConditional execution of \IMail\P commands
ignoreSet/examine list of ignored header fields
incIncorporate new messages
listList valid \IMail\P commands
mailSend mail to specified names
moreInvoke pager on message list
nextGo to next message and type it
preserveArrange to leave list of messages in \Imbox\P
printPrint messages
quitLeave \IMail\P; update system mailbox, \Imbox\P as appropriate
replyCompose a reply to a message
respondSame as \Breply\P
retainSupersedes \Bignore\P
saveAppend messages, headers included, on a file
saveignoreList of headers to ignore when using the \Bsave\P command
saveretainList of headers to retain when using the \Bsave\P command
setSet binary or valued options
shellInvoke an interactive shell
sizePrints out size of message list
sourceRead \IMail\P commands from a file
topPrint first so many (5 by default) lines of list of messages
typeSame as \Bprint\P
unaliasRemove alias
undeleteUndelete list of messages
unreadMarks list of messages as not been read
unsetUndo the operation of a \Bset\P
visualInvoke visual editor on a list of messages
writeAppend messages to a file, don't include headers
xitSame as \Bexit\P
zScroll to next/previous screenful of headers

The following table describes the options. Each option is shown as being either a binary or valued option.

<table>
<thead>
<tr>
<th>Option</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDITOR</td>
<td>valued</td>
<td>Pathname of editor for ~e and \Bedit\P</td>
</tr>
<tr>
<td>LISTER</td>
<td>valued</td>
<td>Pathname of directory lister</td>
</tr>
</tbody>
</table>
The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>~b</td>
<td>name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
</tr>
<tr>
<td>~c</td>
<td>name ...</td>
<td>Add names to Cc: field.</td>
</tr>
<tr>
<td>~d</td>
<td></td>
<td>Read \dead.letter\P into message.</td>
</tr>
<tr>
<td>~e</td>
<td></td>
<td>Invoke text editor on partial message.</td>
</tr>
</tbody>
</table>

MBOX valPathname of the \Imbox\P file
PAGER valPathname of pager for \Bprint\P, \Bprint\P, \BType\P and \Btype\P
SHELL valPathname of shell for \Bshell\P, ~! and \B\P
VISUAL valPathname of screen editor for ~v, \Bvisual\P
append binary Always append messages to end of \Imbox\P
ask binary Prompt user for Subject: field when sending
askbcc binary Prompt user for additional BCc's at end of message
askcc binary Prompt user for additional Cc's at end of message
autoinc binary Automatically incorporate new mail
autoprint binary Print next message after \Bdelete\P
cri valued Minimum number of lines before using \BPAGER\P
dot binary Accept . alone on line to terminate message input
escape valued Escape character to be used instead of \~
folder valued Directory to store folders in
hold binary Hold messages in system mailbox by default
ignore binary Ignore <Control-C> while sending mail
ignoreeof binary Don't terminate letters/command input with \B^D\P
indentprefix valued String used for indenting messages
keepbinary Don't unlink system mailbox when empty
keepsave binary Don't delete \Bsave\Pd messages by default
metoo binary Include sending user in aliases
noheader binary Suppress initial printing of version and headers
nosave binary Don't save partial letter in \ideal.letter\P
Replyall binary Reverses the sense of the \B[Rr]eply\P commands
quiet binary Suppress printing of \Mail\P version/message numbers
record valued File to save all outgoing mail in
searchheaders binary Search string for message headers
sendmail valued Choose alternate mail delivery system
topolines valued Number of lines to print in \Btop\P
verbose binary Invoke sendmail with the \B-v\P flag
~F messages            Same as ~f, but includes all headers.
~f messages            Read in messages.
~h                      Edit the header fields.
~M messages            Same as ~m, but includes all headers.
~m messages            Read in messages, right shifted by a tab.
~p                      Print (show) the message buffer.
~q                      Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file       Read a file into the message buffer.
~s string              Set Subject: field to \fIstring\fP.
~t name ...            Add names to To: field.
~v                      Invoke display editor on message.
~w filename             Write message to file.
~x                      Abort message; no copy is saved.
~?                      Print a brief summary of tilde escapes.
~!command               Execute shell command.
~|command               Pipe message through \fIcommand\fP.
~:command | ~_command Execute a \fIMail\fP command.
~~string                Quote a single tilde.
~.                      Simulate end of file on input.

The following table shows the command line flags that \i Mail\ accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td>Send blind carbon copies to \fIlist\fP</td>
</tr>
<tr>
<td>-b \fIlist\fP</td>
<td>Send carbon copies to \fIlist\fP</td>
</tr>
<tr>
<td>-d</td>
<td>Turn on debugging</td>
</tr>
<tr>
<td>-f \fIname\fP</td>
<td>Show messages in \fIname\fP or \fIV~\fImbox\fP</td>
</tr>
<tr>
<td>-I</td>
<td>Force \fIMail\fP to run in interactive mode</td>
</tr>
<tr>
<td>-n</td>
<td>Ignore tty interrupt signals</td>
</tr>
<tr>
<td>-s \fIsubject\fP</td>
<td>Use \fIsubject\fP as subject in outgoing mail</td>
</tr>
<tr>
<td>-T \fIfile\fP</td>
<td>Article-id's of read/deleted messages to \fIfile\fP</td>
</tr>
<tr>
<td>-u \fIuser\fP</td>
<td>Read \fIuser\fP's mail instead of your own</td>
</tr>
<tr>
<td>-v</td>
<td>Invoke sendmail with the \fBV-v\fP flag</td>
</tr>
</tbody>
</table>

Notes:
and

are not for human use.

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"@(#)mail6.nr 8.2 (Berkeley) 5/16/94

This section describes command line options for
Mail
and what they are used for.
"-b list"
Send blind carbon copies to list.
"-c list"
Send carbon copies to list of users.
List should be a comma separated list of names.
"-f file"
Show the messages in
file
instead of your system mailbox. If
.it file
is omitted,
.it Mail
reads
.it mbox
in your home directory.
.ip \-I
Forces mail to run in interactive mode,
even when input is not a terminal.
In particular, the special \fB\~\fP command character,
used when sending mail, is only available interactively.
.ip \-i
Ignore tty interrupt signals.
This is particularly useful when using mail on noisy phone lines.
.ip \-N
Suppress the initial printing of headers.
.ip \-n
Inhibit reading of /etc/mail.rc upon startup.
.ip \?-s string"
Used for sending mail.
.it String
is used as the subject of the message being composed. If
.it string
contains blanks, you must surround it with quote marks.
.ip \?-u name"
Read
.it names's
mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,
.b \?-u user"
is a shorthand way of doing
.b \?-f /var/mail/user".
.ip \?-v"
Use the
.b \?-v
flag when invoking sendmail. This feature may also be enabled
by setting the option "verbose".
.pp
The following command line flags are also recognized, but are
intended for use by programs invoking
.it Mail
and not for people.
.ip \?-d
Turn on debugging information. Not of general interest.
.ip \?-T file"
Arrange to print on
.it file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
.b \v-T
is for the
.i readnews
program and should NOT be used for reading your mail.
"$OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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"
""@(#)mail4.nr8.2 (Berkeley) 5/16/94
"
".sh 1 "More about sending mail"
".sh 2 "Tilde escapes"
".pp
While typing in a message to be sent to others, it is often
useful to be able to invoke the text editor on the partial message,
print the message, execute a shell command, or do some other
auxiliary function.
.i Mail
provides these capabilities through
.i "tilde escapes",
which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since _mail_ requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```
~e
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor._mail_ will respond by typing

```
(continue)
```

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.

A standard text editor is provided by _mail_.

You can override this default by setting the valued option

```
EDITOR
```
to something else. For example, you might prefer:

```
set EDITOR=/bin/ed
```

Many systems offer a screen editor as an alternative to the standard text editor, such as the _vi_ editor from UC Berkeley, or _mg_, an emacs-like editor. To use the screen, or _visual_
editor, on your current message, you can use the escape,
\(\texttt{~v}\)
\(\texttt{l}\)
\(\texttt{~v}\) works like \texttt{~e}, except that the screen editor is invoked instead.
A default screen editor is defined by
\(\texttt{.i Mail .}\)
If it does not suit you, you can set the valued option
\(\texttt{.q VISUAL}\)
to the path name of a different editor.
\(\texttt{.pp}\)
It is often useful to be able to include the contents of some
file in your message; the escape
\(\texttt{.l}\)
\(\texttt{~r\ filename}\)
\(\texttt{l}\)
is provided for this purpose, and causes the named file to be appended
to your current message.
\(\texttt{.i Mail}\)
complains if the file doesn't exist
or can't be read. If the read is successful, the number of lines and
characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.
\(\texttt{.pp}\)
As a special case of \texttt{~r}, the escape
\(\texttt{.l}\)
\(\texttt{~d}\)
\(\texttt{l}\)
reads in the file
\(\texttt{.q dead.letter}\)
in your home directory. This is often useful since
\(\texttt{.i Mail}\)
copies the text
of your message there when you abort a message with \texttt{<Control-C>}.  
\(\texttt{.pp}\)
To save the current text of your message on a file you may use the
\(\texttt{.l}\)
\(\texttt{~w\ filename}\)
\(\texttt{l}\)
escape.
\(\texttt{.i Mail}\)
will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in \texttt{~r} and are expanded
with the conventions of your shell.
\(\texttt{.pp}\)
If you are sending mail from within
Mail's command mode

you can read a message sent to you into the message you are constructing with the escape:

\( \text{l} \)
\( \sim \text{m} \ 4 \)
\( \text{l} \)

which will read message 4 into the current message, shifted right by one tab stop. You can name any non-deleted message, or list of messages. Messages can also be forwarded without shifting by a tab stop with \( \sim \text{f} \). This is the usual way to forward a message.

\( \text{pp} \)

If, in the process of composing a message, you decide to add additional people to the list of message recipients, you can do so with the escape

\( \text{l} \)
\( \sim \text{t} \ \text{name1} \ \text{name2} \ ... \)
\( \text{l} \)

You may name as few or many additional recipients as you wish. Note that the users originally on the recipient list will still receive the message; you cannot remove someone from the recipient list with \( \sim \text{t} \).

\( \text{pp} \)

If you wish, you can associate a subject with your message by using the escape

\( \text{l} \)
\( \sim \text{s} \ \text{Arbitrary string of text} \)
\( \text{l} \)

which replaces any previous subject with

\( \text{q} \ "\text{Arbitrary string of text}" \)

The subject, if given, is sent near the top of the message prefixed with

\( \text{q} \ "\text{Subject:"} \)

You can see what the message will look like by using \( \sim \text{p} \).

\( \text{pp} \)

For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

\( \text{l} \)
\( \sim \text{c} \ \text{name1} \ \text{name2} \ ... \)
\( \text{l} \)

adds the named people to the

\( \text{q} \ "\text{Cc:"} \)

list, similar to \( \sim \text{t} \).

Again, you can execute \( \sim \text{p} \) to see what the message will look like.

\( \text{pp} \)

The escape

\( \text{l} \)
\( \sim \text{b} \ \text{name1} \ \text{name2} \ ... \)
adds the named people to the
"Cc:" list, but does not make the names visible in the
"Cc:" line ("blind" carbon copy).

The recipients of the message together constitute the
"To:" field, the subject the
"Subject:" field, and the carbon copies the
"Cc:" field. If you wish to edit these in ways impossible with the ~t, ~s, ~c
and ~b escapes, you can use the escape
~h
which prints
"To:" followed by the current list of recipients and leaves the cursor
(or printhead) at the end of the line. If you type in ordinary
characters, they are appended to the end of the current list of
recipients. You can also use your erase character to erase back into
the list of recipients, or your kill character to erase them altogether.
Thus, for example, if your erase and kill characters are the standard
(on printing terminals) <Control-H> and <Control-U> keys,
~h
To: root kurt^H^H^H^Hbill
would change the initial recipients
"root kurt"
to
"root bill."
When you type a newline,
.i Mail
advances to the
"Subject:" field, where the same rules apply. Another newline brings you to
the
"Cc:" field, which may be edited in the same fashion. Another newline
brings you to the
"Bcc:" ("blind" carbon copy) field, which follows the same rules as the "Cc:" field. Another newline
leaves you appending text to the end of your message. You can use
~p to print the current text of the header fields and the body of the message.

To effect a temporary escape to the shell, the escape

~!command

is used, which executes

command

and returns you to mailing mode without altering the text of your message. If you wish, instead, to filter the body of your message through a shell command, then you can use

~|command

which pipes your message through the command and uses the output as the new text of your message. If the command produces no output, Mail assumes that something is amiss and retains the old version of your message. A frequently-used filter is the command fmt, designed to format outgoing mail.

To effect a temporary escape to Mail command mode instead, you can use the

~:\fIMail command\fP

escape. This is especially useful for retyping the message you are replying to, using, for example:

~:t

It is also useful for setting options and modifying aliases.

If you wish abort the current message, you can use the escape

~q

This will terminate the current message and return you to the shell (or \fIMail\fP if you were using the \Bmail\fP command). If the \fBsave\fP option is set, the message will be copied to the file dead.letter in your home directory.

If you wish to abort the current message,
without saving any copy of it whatsoever, even if the \fBsave\fP option is set, you can use the escape
\(\sim\)
\(~\)
\(~x\)
\(~l\)
\(~pp\)
If you wish (for some reason) to send a message that contains a line beginning with a tilde, you must double it. Thus, for example,
\(\sim\)
\(~\)
\(~\)~This line begins with a tilde.
\(~\)
\(~\)
sends the line
\(\sim\)
\(~\)
\(~\)
\(~\)This line begins with a tilde.
\(~\)
\(~\)
\(~\)pp
Finally, the escape
\(\sim\)
\(~\)
\(~\)?
\(~\)
\(~\)
prints out a brief summary of the available tilde escapes.
\(~\)pp
On some terminals (particularly ones with no lower case) tilde's are difficult to type.
\(~\)Mail
allows you to change the escape character with the \(~\)q escape option. For example, I set
\(\sim\)
\(~\)
\(~\)set escape=]
\(~\)
and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for \(~\).
Changing the escape character removes the special meaning of \(~\).
\(~\)sh 2 "Network access"
\(~\)pp
This section describes how to send mail to people on other machines. Recall that sending to a plain login name sends mail to that person on your machine. If your machine is directly (or sometimes, even, indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form
\(~\)
\(~\)name@host.domain
\(~\)
where
\(~\)i name
is the login name of the person you're trying to reach,
.i host
is the name of the machine on the Internet,
and
.i domain
is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

If your recipient logs in on a machine connected to yours by UUCP (the Bell Laboratories supplied network that communicates over telephone lines), sending mail can be a bit more complicated. You must know the list of machines through which your message must travel to arrive at his site. So, if his machine is directly connected to yours, you can send mail to him using the syntax:

.i host!name

where, again,
.i host
is the name of the machine and
.i name
is the login name.
If your message must go through an intermediary machine first, you must use the syntax:

.i intermediary!host!name

and so on. It is actually a feature of UUCP that the map of all the systems in the network is not known anywhere (except where people decide to write it down for convenience). Talk to your system administrator about good ways to get places; the
.i uuname
command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

When you use the .b reply command to respond to a letter, there is a problem of figuring out the names of the users in the .q "To:" and .q "Cc:" lists
.i "relative to the current machine".
If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.
.i Mail
uses a heuristic to build the correct name for each user relative
to the local machine. So, when you
  b reply
to remote mail, the names in the
  q "To:"
and
  q "Cc:"
lists may change somewhat.
.sh 2 "Special recipients"
.p
As described previously, you can send mail to either user names or
  b alias
names. It is also possible to send messages directly to files or to
  b alias
programs, using special conventions. If a recipient name has a
`/` in it or begins with a `+`, it is assumed to be the
path name of a file into which
to send the message. If the file already exists, the message is
appended to the end of the file. If you want to name a file in
your current directory (ie, one for which a `/` would not usually
be needed) you can precede the name with `./`
So, to send mail to the file
  q memo
in the current directory, you can give the command:
(l
 % Mail /memo
)l
If the name begins with a `+`, it is expanded into the full path name
of the folder name in your folder directory.
This ability to send mail to files can be used for a variety of
purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
  b alias
command for the group. Using our previous
  b alias
element, you might give the command:
(l
 alias project sam sally steve susan /usr/project/mail_record
)l
Then, all mail sent to "project" would be saved on the file
  q /usr/project/mail_record
as well as being sent to the members of the project. This file
can be examined using
  i "Mail \-f" .
.p
It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access
it using .i Mail .
To send messages to the billboard program, one can send mail to the special name `|billboard' for example.
.i Mail
treats recipient names that begin with a `|' as a program to send the mail to. An .b alias
can be set up to reference a `|' prefaced name if desired.
.i Caveats :
the shell treats `|' specially, so it must be quoted on the command line. Also, the `| program' must be presented as a single argument to mail. The safest course is to surround the entire name with double quotes. This also applies to usage in the .b alias command. For example, if we wanted to alias `rmsgs' to `rmsgs \-s' we would need to say:

```
alias rmsgs "| rmsgs -s"
```

### 1.671 netcat-traditional 1.10-41.1

#### 1.671.1 Available under license :

Netcat was created in the year 1995 and was developed until first months of the 1996, when it reached version 1.10, released by Avian Research (avian.org).

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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1.682 pathlib 2.3.6
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The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_ module on bitbucket is in bugfix-only mode. The goal of pathlib2 is to provide a backport of 
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_ module which tracks the standard library module, so all the newest features of the standard pathlib can be used also on older Python versions.

**Description:** **As of January 1 2020, this repository will no longer receive any further updates, as Python 2 is no longer supported.**

Standalone releases are available on PyPI: 
http://pypi.python.org/pypi/pathlib2/

**Development**

The main development takes place in the Python standard library: see the `Python developer's guide <http://docs.python.org/devguide/>`_. In particular, new features should be submitted to the `Python bug tracker <http://bugs.python.org/>`_.

Issues that occur in this backport, but that do not occur not in the standard Python pathlib module can be submitted on the `pathlib2 bug tracker <https://github.com/mcmtroffaes/pathlib2/issues>`_.

**Documentation**

Refer to the 
Known Issues
------------

For historic reasons, pathlib2 still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (`mcbs`) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning. For example, ``u''.encode(sys.getfilesystemencoding())`` results in ``????`` which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream, unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames. See `issue #56 <https://github.com/mcmtroffaes/pathlib2/issues/56>`_ for more details.


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* /opt/cola/permits/1181912632_1626674765.3/0/pathlib2-2-3-6-tar-gz/pathlib2-2.3.6/pathlib2.egg-info/PKG-INFO
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* /opt/cola/permits/1181912632_1626674765.3/0/pathlib2-2-3-6-tar-gz/pathlib2-2.3.6/tests/test_pathlib2.py
* /opt/cola/permits/1181912632_1626674765.3/0/pathlib2-2-3-6-tar-gz/pathlib2-2.3.6/setup.py

1.683 libapache2-mod-svn 1.9.7-4ubuntu1

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This package was put together by David Kimdon <dwhedon@debian.org>
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APPENDIX: How to apply the Apache License to your work

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1.688 aws-sdk-go-v2 1.2.2

1.688.1 Available under license:

    // Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmsdk "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string
// Current version of the license.

// This member is required.
SourceVersion *string

}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import (  
"context"  
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.  
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {  
if params == nil {  
params = &ListReceivedLicensesInput{}  
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)  
if err != nil {  
return nil, err  
}

out := result.(*ListReceivedLicensesOutput)  
out.ResultMetadata = metadata  
return out, nil  
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//  
// * ProductSKU
//  
// * Status
//  
// * KeyFingerprint
//  
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32
// Token for the next set of results.
NextToken *string

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
}
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}

if err != nil {
    return err
}

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}

if err = addClientUserAgent(stack); err != nil {
    return err
}

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),

middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
// // This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// // This member is required.
ClientToken *string

// License entitlements.
// // This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// // This member is required.
KeyFingerprint *string

// Product SKU.
// // This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData
func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
}
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    return result, nil
}
out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Amazon Resource Name (ARN) of the license. The license must use the borrow
  // consumption configuration.
  //
  // This member is required.
  LicenseArn *string

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Node ID.
  NodeId *string
}
type CheckoutBorrowLicenseOutput struct {

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData
/ Date and time at which the license checkout expires.
Expiration *string

/ Date and time at which the license checkout is issued.
IssuedAt *string

/ Amazon Resource Name (ARN) of the license.
LicenseArn *string

/ License consumption token.
LicenseConsumptionToken *string

/ Node ID.
NodeId *string

/ Signed token.
SignedToken *string

/ Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) { err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After) if err != nil { return err } err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After) if err != nil { return err } if err = addSetLoggerMiddleware(stack, options); err != nil { return err } if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil { return err } if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil { return err } if err = addResolveEndpointMiddleware(stack, options); err != nil { return err } if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil { return err } if err = addRetryMiddlewares(stack, options); err != nil { return err }
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *
awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:       region,
        ServiceID:    ServiceID,
        SigningName:  "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
    addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string
}
// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
)
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:     region,
ServiceID:   ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
} if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
} if err = addClientUserAgent(stack); err != nil {
    return err
} if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
} if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
} if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
} if err = addResponseErrorMiddleware(stack); err != nil {
    return err
} if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.689 x-crypto 0.0.0-20171231215028-0fcc4842a8d

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1.690 cri-tools 1.19.0-00

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Argon2 reference source code package - reference C implementations

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*/opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/LICENSE.rst*

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

[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
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  Twitter = https://twitter.com/PalletsTeam
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license = BSD-3-Clause
license_files = LICENSE.rst
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 = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
  package-dir = = src
  include_package_data = true
  python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
  error
  ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542

[coverage:run]
branch = True
source =
jinja2
tests

[coverage:paths]
source =
  src
  */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
  E203
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warnUnused_configs = True
warnUnused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg
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Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
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=====

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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`:

.. code-block:: text

   $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

   {% 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 %}

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------

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Links
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- Documentation: https://jinja.palletsprojects.com/
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1.711 golang-protobuf-extensions v1.0.0

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Go support for Protocol Buffers - Google's data interchange format

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1.712 golang-snappy 0.0.1

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# setprototypeof 1.1.1

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# squirrel 1.2.0

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# npm-pick-manifest 7.0.0

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1.718 os-service-types 1.7.0

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1.723 liburi-perl 1.73-1

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1.729 aws-sdk-go-v2 1.1.5

1.729.1 Available under license :

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
    )

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
        addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string

}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:         region,
        ServiceID:      ServiceID,
        SigningName:    "license-manager",
        OperationName:  "DeleteLicense",
    }
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {
  // Filters to scope the results. The following filters are supported:
  //
  // *
  // ProductSKU
  //
  // * Status
  //
  // * KeyFingerprint
  //
  // * Issuer
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32

  // Token for the next set of results.
  NextToken *string
}

type ListReceivedLicensesOutput struct {
  // Received license details.
  Licenses []types.GrantedLicense

  // Token for the next set of results.
  NextToken *string

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = aws.middleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = aws.middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws.middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = aws.middleware.AddClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
            ...
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
}

// License beneficiary.
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
// This member is required.
HomeRegion *string

// License issuer.
// This member is required.
Issuer *types.Issuer

// License name.
// This member is required.
LicenseName *string

// Product name.
// This member is required.
ProductName *string

// Product SKU.
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

type CreateLicenseOutput struct {

  // Amazon Resource Name (ARN) of the license.
  LicenseArn *string

  // License status.
  Status types.LicenseStatus

  // License version.
  Version *string

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:  region,
        ServiceID:  ServiceID,
        SigningName:  "license-manager",
        OperationName:  "CreateLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // This member is required.
}
// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {
  // Checkout type.
  CheckoutType types.CheckoutType

  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData

  // Date and time at which the license checkout expires.
  Expiration *string

  // Date and time at which the license checkout is issued.
  IssuedAt *string

  // License consumption token.
  LicenseConsumptionToken *string

  // Node ID.
 NodeId *string

  // Signed token.
  SignedToken *string

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {


return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {
    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
}

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// Code generated by smithy-go-codegen DO NOT EDIT.
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

```go
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}
```

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}

if err != nil {
    return err
}

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}

if err = addClientUserAgent(stack); err != nil {
    return err
}

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),

middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    return result, metadata
}
out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // * Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

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package licensemanager

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }
    }
    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
// Amazon Resource Name (ARN) of the license.

// This member is required.
LicenseArn *string

// License version.
Version *string

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    // 
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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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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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Better unicode support for filepost using StringIO buffers

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* 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@ibofobi.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 Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://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 <http://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>
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* 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 <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
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  * 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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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

* Jesse 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.

* Jeremey 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 vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.740 fs-minipass 2.1.0

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1.741 jersey-guava 2.25.1

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Converter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Range.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/MultiReader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/Platform.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/primitives/Floats.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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jar/jersey/repackaged/com/google/common/collect/Count.java
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jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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1.772 libpsl 0.19.1-5build1

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Source: https://github.com/rockdaboot/libpsl

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### 1.773 validate-npm-package-license 3.0.4

**1.773.1 Available under license:**

```javascript
validate-npm-package-license
```

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
```
var valid = require('validate-npm-package-license');

```javascript
SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
    validForNewPackages: true,
    validForOldPackages: true,
    spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
    valid('Apache 2.0'),
    {
        validForOldPackages: false,
        validForNewPackages: false,
        warnings: [
            'license should be ' +
            'a valid SPDX license expression (without "LicenseRef"), ' +
            '"UNLICENSED", or ' +
            '"SEE LICENSE IN <filename>"",
            'license is similar to the valid expression "Apache-2.0"'
        ]
    }
);
```javascript
SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
    valid('(GPL-3.0-only OR BSD-2-Clause)'),
    validSPDXExpression
);
```
... except if they contain `LicenseRef`:

```javascript

```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
];

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
validForNewPackages: true,
validForOldPackages: true,
inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
validForNewPackages: true,
validForOldPackages: true,
inFile: 'license.md'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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1.774 json-logging 1.3.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.779 json-c 0.13.1

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1.780 jakarta-annotation-api 1.3.4

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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_nicstart() 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, allowing 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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========

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1.803 toml 0.3.1

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1.804 x-text 0.3.3

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1.805 deepmerge 3.2.0

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1.806 ignore-by-default 1.0.1

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1.807 gopkg-in/gorp 1.7.2

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1.808 got 9.6.0

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1.809 google-uuid 1.3.0

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1.810 python-setuptools 60.9.3
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1.811 hivex 1.3.15-1ubuntu0.1
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Eclipse

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

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

Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.816  xmlsec 1.2.25-1build1
1.816.1  Available under license :

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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-nss library

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References

* AOL
  http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD

1.817 cloud-image-utils 0.30-0ubuntu5

1.817.1 Available under license:

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1.826 kerberos 1.16-2ubuntu0.2

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(cmd/krb5/iprop/iprop_hdr.h
(cmd/krb5/kadmin/server/ipropd_svc.c
(cmd/krb5/kproplog/kproplog.c
(cmd/krb5/slave/kpropd_rpc.c
(lib/gss_mechs/mech_krb5/et/kdb5_err.c
(lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
(lib/gss_mechs/mech_spnego/mech/spnego_mech.c
(lib/krb5/kadm5/kadm_host_srv_names.c
(lib/krb5/kdb/kdb_convert.c
(lib/krb5/kdb/kdb_hdr.h
(lib/krb5/kdb/kdb_log.c
(lib/krb5/kdb/kdb_log.h
(lib/gss/g_accept_sec_context.c
(lib/gss/g_acquire_cred.c
(lib/gss/g_canon_name.c
(lib/gss/g_compare_name.c
(lib/gss/g_context_time.c
(lib/gss/g_delete_sec_context.c
(lib/gss/g_dsp_name.c
(lib/gss/g_dsp_status.c
(lib/gss/g_dup_name.c
(lib/gss/g_exp_sec_context.c
(lib/gss/g_export_name.c
(lib/gss/g_glue.c
(lib/gss/g_imp_name.c
(lib/gss/g_imp_sec_context.c
(lib/gss/g_init_sec_context.c
(lib/gss/g_initialize.c
(lib/gss/g_inquire_context.c
(lib/gss/g_inquire_cred.c
(lib/gss/g_inquire_names.c
(lib/gss/g_process_context.c
(lib/gss/g_rel_buffer.c
(lib/gss/g_rel_cred.c
(lib/gss/g_rel_name.c
(lib/gss/g_rel_oid_set.c
(lib/gss/g_seal.c
(lib/gss/g_sign.c
(lib/gss/g_store_cred.c
(lib/gss/g_unseal.c
(lib/gss/g_userok.c
(lib/gss/g_utils.c
(lib/gss/g_verify.c
(lib/gss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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/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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1.836 zlib 1.2.11

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1.838 deathowl-go-metrics-prometheus 0.0.0-20190530215645-35bace25558f

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1.839 python3-nose 1.3.7-3
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1.844 ply 3.11
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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:
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.

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

    tokens = (
        'NAME', 'NUMBER',
    )
'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
'L PAREN','R PAREN',
)

# Tokens
t_PLUS = r'\+'
t_MINUS = r'-'
t_TIMES = r'\*'
t_DIVIDE = r'/'
t_EQUALS = r'= '
t_LPAREN = r'\('
t_RPAREN = r')'
t_NAME = r'[a-zA-Z_]\[a-zA-Z0-9_]*'

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

# Ignored characters
t_ignore = " \t"

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
        yacc.parse(s)
    except EOFError:
        break
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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1.845 pylint 1.8.3-1

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1.853 x-sys 0.0.0-20210225134936-a50acf3fe073

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// For more information: http://goo.gl/8us55a#licenseObject
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    URL  string `json:"url,omitempty"`  
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#
# Use the following command to generate the list
#
# git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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1.907 miekg-pkcs11 1.0.2

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1.909 python-dateutil 2.6.1-1.ph1

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1.911 prometheus-alertmanager 0.21.0

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1.912 aws-sdk-go 1.41.7

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1.915 openstacksdk 0.61.0

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```
openstack/
    connection.py
    resource.py
    compute/
        compute_service.py
        v2/
            server.py
            _proxy.py
tests/
    compute/
        v2/
            test_server.py
clouds:
test_cloud:
    region_name: RegionOne
    auth:
        auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
        username: demo
        password: secrete
        project_name: demo
rackspace:
    cloud: rackspace
    auth:
        username: joe
        password: joes-password
        project_name: 123123
        region_name: IAD
example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private
```

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1.921 bits-and-blooms-bitset 1.2.0

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Written by: Philip Hazel
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1.924 text-hex 1.0.0

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1.925 aide 0.16-3ubuntu0.1
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1.926 qemu-block-extra 2.11+dfsg-1ubuntu7.39

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL }


TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s("%s")", %d", NULL, NULL },
TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s("%s")", %d", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s("%s")", %d", %d", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s("%s")", %d", %d", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_set_fd, "__acl_get_set_fd", "%s(%d, %d, %d)", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_set_file, "__acl_get_set_file", "%s("%s")", %d", %d", NULL, NULL },
TARGET_FREEBSD_NR__acl_get_set_link, "__acl_get_set_link", "%s("%s")", %d", %d", NULL, NULL },
TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, NULL, NULL },
TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%d, %d, %d)", NULL, NULL },
TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %d)", NULL, NULL },
TARGET_FREEBSD_NR_access, "access", "%s("%s")", %d", NULL, NULL },
TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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r/R/dplyr-count-tally.R (some portions)

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 */

package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"  
    "github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (
// LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"
// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
return string(r)
}
// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
return r == LegalHoldEnabled || r == LegalHoldDisabled
}
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
if status == nil {
return nil, fmt.Errorf("Status not set")
}
if !status.IsValid() {
return nil, fmt.Errorf("invalid legal hold status `%v`", status)
}

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legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    }

    // Execute PUT Object Legal Hold.
defErr := closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
defErr := closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{}}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

1.931 @npmcli/config 4.0.1
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**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{# method %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path\`
- Remote file format is `\<pod-name>\:<path>`

{# sample lang="yaml" %}

```bash
kubectl cp /tmp/foo_dir <some-pod>:/<tmp/bar_dir
```

{# endmethod %}

{# method %}

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>\:<path>`

{# sample lang="yaml" %}

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{# endmethod %}

{# method %}

## Specify the Container

Specify the Container within a Pod running multiple containers.
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `/<namespace>`.

```
kubectl cp /tmp/foo <pod-namespace>/<pod-name>:<path>
```

---

### 1.933 importlib-metadata 4.8.2

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1.935 libio-html-perl 1.001-1

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1.936 x-crypto 0.0.0-20211117183948-ae814b36b871

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1.945 pcre 8.39-9
1.945.1 Available under license:

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

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

THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

University of Cambridge Computing Service,

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PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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STACK-LESS JUST-IN-TIME COMPILER
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Written by: Zoltan Herczeg
Email local part: hzmester
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THE C++ WRAPPER FUNCTIONS
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End

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End

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1.946 aws-sdk-go-v2 1.0.6
1.946.1 Available under license :
   // Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
   "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)  

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
   if params == nil {  
      params = &DeleteLicenseInput{  
   }  
   }  
   result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, 
addOperationDeleteLicenseMiddlewares)
   if err != nil {  
      return nil, err  
   }  
   out := result.(*DeleteLicenseOutput)
   out.ResultMetadata = metadata
   return out, nil
type DeleteLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string
}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
    }
}
package licensemanager

import {
    "context"
    awsinspector "github.com/aws/smithy-go/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // *
    // Status
    //
    // *
    // KeyFingerprint

    //
    //
    //
    //
    //
    //
    //
    //
    //
package

// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    return nil
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithy http.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithy http.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) 
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}
package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //

// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }

    if err = awsmiddleware>AddRecordResponseTiming(stack); err != nil {
        return err
    }

    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = Smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, 
addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    //
}
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsMiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
  Region: region,
  ServiceID: ServiceID,
  SigningName: "license-manager",
  OperationName: "CheckoutLicense",
}
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
        addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    return nil
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
        addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
//
// * KeyFingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

} type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *aws middleware.RegisterServiceMetadata {
    return &aws middleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // 
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
}
func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddEmptyCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)

if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckInLicenseInput struct {
    // License consumption token.
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
}

// License consumption token.
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",}
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1.947 urfave-cli 1.22.1

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1.950 libsensors 3.4.0-4

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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.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

  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 pistream 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.

  Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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13961 Nov 21 2006 ./aimage/gui.cpp
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8087 Nov 15 2006 ./aimage/ident.cpp
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23327 Nov 25 2006 ./aimage/imager.cpp
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301 Nov 8 2006 ./aimage/Makefile.am
13466 Dec 8 2006 ./aimage/Makefile.in
461 Dec 8 2006 ./AUTHORS
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7765 Dec 8 2006 ./config.h.in
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10819 Oct 20 2006 ./lib/base64.cpp
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4652 Nov 15 2006 ./lib/lzma_glue.cpp
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1.963 git 2.17.1-1ubuntu0.9

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1.964 influxdb 2.2.0
1.964.1 Available under license:
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license='MIT License',
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Found in path(s):
* /opt/cola/permits/1225551175_1636408182.26/0/influxdb-2-2-0-1-tar-gz/influxdb-2.2.0/setup.py

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Metadata-Version: 1.1
Name: influxdb
Version: 2.2.0
Summary: InfluxDB client
Home-page: https://github.com/influxdb/influxdb-python
Author: UNKNOWN
Author-email: UNKNOWN
License: MIT License
Description:
InfluxDB-Python is a client for interacting with InfluxDB_.

.. image:: https://travis-ci.org/influxdb/influxdb-python.svg?branch=master
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InfluxDB is an open-source distributed time series database, find more about InfluxDB at http://influxdb.com/

InfluxDB > v0.9 support
========================

The 1.0.0 version of this library now supports InfluxDB 0.9. Please note that InfluxDB 0.9 is still pre-release software. For stability, you should use the `influxdb.influxdb08` module in conjunction with InfluxDB 0.8.

InfluxDB v0.8.X users
========================

Influxdb >=0.9.0 brings many breaking changes to the API. InfluxDB 0.8.X users may use the legacy client by using `from influxdb.influxdb08 import InfluxDBClient` instead.

Installation
============

Install, upgrade and uninstall InfluxDB-Python with these commands:

$ pip install influxdb
$ pip install --upgrade influxdb
$ pip uninstall influxdb

On Debian/Ubuntu, you can install it with this command:

$ sudo apt-get install python-influxdb

Dependencies
============
The InfluxDB-Python distribution is supported and tested on Python 2.7, 3.2, 3.3, 3.4, PyPy and PyPy3.

Main dependency is:

- Requests: HTTP library for human beings (http://docs.python-requests.org/)

Additional dependencies are:

- pandas: for writing from and reading to DataFrames (http://pandas.pydata.org/)
- Sphinx: Tool to create and manage the documentation (http://sphinx-doc.org/)
- Nose: to auto-discover tests (http://nose.readthedocs.org/en/latest/)
- Mock: to mock tests (https://pypi.python.org/pypi/mock)

Documentation
===============

InfluxDB-Python documentation is available at http://influxdb-python.readthedocs.org

You will need Sphinx_ installed to generate the documentation.

The documentation can be generated by running::

    $ tox -e docs

Generated documentation can be found in the *docs/build/html/* directory.

Examples
========

Here's a basic example (for more see the examples directory)::

    $ python

    >>> from influxdb import InfluxDBClient

    >>> json_body = [
    ...   {
    ...     "name": "cpu_load_short",
    ...     "tags": {
    ...         "host": "server01",
    ...         "region": "us-west"
    ...     },
    ...     "timestamp": "2009-11-10T23:00:00Z",
    ...     "fields": {
    ...         "value": 0.81
    ...     }
    ...   }
    ... ]
>>> client = InfluxDBClient('localhost', 8086, 'root', 'root', 'example')

>>> client.create_database('example')

>>> client.write_points(json_body)

>>> result = client.query('select value from cpu_load_short;')

>>> print("Result: {0}".format(result))

If you want to connect to a cluster, you could initialize a `InfluxDBClusterClient`::

```
$ python

>>> from influxdb import InfluxDBClusterClient

>>> cc = InfluxDBClusterClient(hosts = [('192.168.0.1', 8086),
   ('192.168.0.2', 8086),
   ('192.168.0.3', 8086)],
   username='root',
   password='root',
   database='example')
```

``InfluxDBClusterClient`` has the same methods as ``InfluxDBClient``, it basically is a proxy to multiple InfluxDBClients.

Testing
=======

Make sure you have tox by running the following::

```
$ pip install tox
```

To test influxdb-python with multiple version of Python, you can use Tox::

```
$ tox
```

Support
=======

For issues with, questions about, or feedback for InfluxDB, please look into our community page: http://influxdb.com/community/.
Development
============

All development is done on Github_. Use Issues_ to report problems or submit contributions.

.. _Github: https://github.com/influxdb/influxdb-python/
.. _Issues: https://github.com/influxdb/influxdb-python/issues

TODO
=====

The TODO/Roadmap can be found in Github bug tracker: https://github.com/influxdb/influxdb-python/issues/109

Source code
============

The source code is currently available on Github: https://github.com/influxdb/influxdb-python

.. _InfluxDB: http://influxdb.com/
.. _Sphinx: http://sphinx.pocoo.org/
.. _Tox: https://tox.readthedocs.org

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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Found in path(s):
* /opt/cola/permits/1225551175_1636408182.26/0/influxdb-2-2-0-1-tar-gz/influxdb-2.2.0/PKG-INFO
* /opt/cola/permits/1225551175_1636408182.26/0/influxdb-2-2-0-1-tar-gz/influxdb-2.2.0/influxdb.egg-info/PKG-INFO
1.965 telegraf v1.19.1
1.965.1 Available under license:

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

1.971 go-openapi 0.19.3
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==============

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

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

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

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

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<td>2001-now</td>
<td>PSF</td>
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</table>

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

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

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package simulator
import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == ""
            license.Labels = append(license.Labels[:j], license.Labels[j+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,


}

return body

}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

Common libraries shared by Prometheus Go components.

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Feb, 2010

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

**Install Tar**
Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `/<path>`
- Remote file format is `/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>\:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\:`.

- `\<pod-namespace>\:<pod-name>\:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
Plugin     string
Option     string
Severity   string // 'deprecated', 'removed', or 'unsupported'
ReplacedBy string
Additional string
Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    s += fmt.Sprintf(`is ` + n.Severity + ` in " + n.Version + "."
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all"  // show all statuses
)

1.974 runc 1.0.2

1.974.1 Available under license:

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1.975 kubernetes-model 4.10.2

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1.976 common-ancestor-path 1.0.1

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1.977 ruamel.yaml 0.17.17

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1.978 json-c 0.12.1-1.3ubuntu0.3

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1.979 fsnotify 1.4.7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.1003 google-pprof 0.0.0-20210323184331-8eee2492667d

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1.1005 python-defaults 3.6.7-1~18.04
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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.

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

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

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

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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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txt

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.1011 linux-kernel 5.4.0-100-generic

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1.1027 go-openapi-spec 0.19.3
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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"
    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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1.1028 go-runtime 1.13.9

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# Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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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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```
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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>
author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.1058 libmemcached 1.0.18-4.2ubuntu0.18.04.1

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1.1059 x-text 0.3.2

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1.1060 github.com/moby/spdystream 0.2.0

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1.1061 webrick 1.4.2
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1.1062 libtimedate-perl 2.3000-2
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Found in path(s):
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate- 
2.30/lib/Date/Format.pm
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate- 
2.30/lib/Date/Parse.pm

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
print $lang->ctime(time);
print $lang->asctime(@lt);
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR
Paula Goddard (paula-at-paulacska-dot-com)

=head1 LICENCE

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=cut

Found in path(s):
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/lib/Date/Language/Hungarian.pm
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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it currently only with English. You are left alone to try and convert the output when using different Date::Language::* in the same application. This should be addressed in the future.

=head1 SYNOPSIS

use strict;
use warnings;
use Date::Language;
local $==/;
my $template = '%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,:utf8);
foreach my $l(keys %languages){
    my $lang = Date::Language->new($l);
    my $zone = $languages{$l};
    print $/. "$l $zone";
    print $lang->time2str($template, $time);
    print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

perl Makefile.PL
make
make test
make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>
abstract: unknown
author: - 'Graham Barr <gbarr@pobox.com>'
build_requires:  
  ExtUtils::MakeMaker: 0
configure_requires:  
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:  
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
no_index:  
directory:  
  - t  
  - inc
requires: {}
resources:  
  repository: http://github.com/gbarr/perl-TimeDate
version: 2.30

---

1.1063 evanphx-json-patch

4.2.0+incompatible

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1.1064 gorilla 1.7.3

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1.1065 prometheus-procfs 0.2.0

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1.1067 liblwp-mediatypes-perl 6.02-1
1.1067.1 Available under license:

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

# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
# # The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed here to guide configurations toward known types and to make it easier to identify "new" types. File extensions are also commonly used to indicate content languages and encodings, so choose them carefully.

Internet media types should be registered as described in RFC 4288. The registry is at <http://www.iana.org/assignments/media-types>.

MIME type (lowercased)Extensions

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# application/pgp-keys
application/pgp-signature.asc
application/pics-rules
# application/pidf+xml
# application/pidf-diff+xml
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application/pkcs7-mime
application/pkcs7-signature
application/pkcs8
application/pkix-attr-cert
application/pkix-cert
application/pkix-crl
application/pkix-pkipath
application/pkix-certificate
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application/resource-lists
application/resource-lists-diff
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application/rss+xml
application/rtf
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
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application/scvp-cv-response
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# application/vnd.japannet-verification
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# audio/dls
text/audio/dls
# audio/dsr-es201108
text/audio/dsr-es201108
# audio/dsr-es202050
text/audio/dsr-es202050
# audio/dsr-es202211
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# audio/dsr-es202212
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# audio/evrc
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# audio/evrc-qcp
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# audio/evrcwb0
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# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
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# text/t140
text/tab-separated-values
# text/troff tr roff man me ms
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text/x-java-sourcejava
text/x-setexttxtx
text/x-uuencodeuueuu
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# text/xml
# text/xml-external-parsed-entity
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# video/3gpp-tt
video/3gpp23g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/example
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video/h263h263
# video/h263-1998
# video/h263-2000
video/h264h264
# video/h264-rcdo
# video/h264-svc
video/jpegjpgv
# video/jpeg2000
video/jpmjpm jpm
video/mj2mj2 mj2 mjp2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4mp4 mp4v mpg4
# video/mp4v-es
video/mpegmpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/av
video/oggoggv
# video/parityfec
# video:pointer
video/quicktimeqt mov
# video/raw
# video/rtp-enc-aescm128
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vcl
# video/vnd.cctv
video/vnd.dece.hduvh uvvh
video/vnd.dece.mobileuvvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pduvp uvvp
video/vnd.dece.sduvs uvvs
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# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
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NAME
LWP::MediaTypes - guess media type for a file or a URL

SYNOPSIS
use LWP::MediaTypes qw(guess_media_type);
$etype = guess_media_type("/tmp/foo.gif");

Found in path(s):
*/opt/cola/permits/1136703903_1613864944.59/0/lblwp-mediatypes-perl-6-02-orig-1-tar.gz/LWP-MediaTypes-6.02/lib/LWP/media.types

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This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the `media.types` file. If the `~/.media.types` file exists it is used instead. For backwards compatibility we will also look for `~/.mime.types`.

The following functions are exported by default:

```perl
=item guess_media_type( $filename )
=item guess_media_type( $uri )
=item guess_media_type( $filename_or_uri, $header_to_modify )
```

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like C"text/html". In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then `guess_media_type()` will let the C<T> Perl operator take a look. If this works (and C<T> returns a TRUE value) then we return I<text/plain> as the type, otherwise we return I<application/octet-stream> as the type.

The optional second argument should be a reference to a HTTP::Headers object or any object that implements the $obj->header method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

```perl
=item media_suffix( $type, ... )
```

This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$subject = media_suffix('text/html');
```

The following functions are only exported by explicit request:
Associate a list of file extensions with the given media type.
Example:

add_type("x-world/x-vrml" => qw(wrl vrml));

Associate a list of file extensions with an encoding type.
Example:

add_encoding("x-gzip" => "gz");

Parse media types files and add the type mappings found there.
Example:

read_media_types("conf/mime.types");
defined by the media.types file. If the ~/.media.types file exists it is used instead. For backwards compatibility we will also look for ~/.mime.types.

The following functions are exported by default:

```perl
guess_media_type($filename)
guess_media_type($uri)
guess_media_type($filename_or_uri, $header_to_modify)
```

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like 
`"text/html"'. In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then guess_media_type() will let the `-T' Perl operator take a look. If this works (and `-T' returns a TRUE value) then we return *text/plain* as the type, otherwise we return *application/octet-stream* as the type.

The optional second argument should be a reference to a HTTP::Headers object or any object that implements the $obj->header method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

```perl
media_suffix($type, ...
```

This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:

```perl
add_type($type, @exts)
```

Associate a list of file extensions with the given media type. Example:

```perl
add_type("x-world/x-vrml" => qw(wrl vrml));
```

```perl
add_encoding($type, @ext)
```

Associate a list of file extensions with an encoding type. Example:

```perl
add_encoding("x-gzip" => "gz");
```

```perl
read_media_types(@files)
```
Parse media types files and add the type mappings found there.
Example:

    read_media_types("conf/mime.types");

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* /opt/cola/permits/1136703903_1613864944.59/0/lblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/README
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Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/lblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/META.yml

### 1.1068 javax-inject 2.5.0-b32

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### 1.1069 opencontainers-runtime-spec 1.0.3-0.20210326190908-1c3f411f0417

**1.1069.1 Available under license:**

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1.1071 lxcfs 3.0.3 0ubuntu1~18.04.2

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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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Revision 4.4.5, released 2018-08-05

- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed `Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi `nextCmd` and `bulkCmd` calls when `lexicographicMode = False`

Revision 4.4.4, released 2018-01-03

- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision 4.4.3, released 2017-12-22

- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11

- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIV2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23

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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06

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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

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- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows
Revision 4.3.8, released 2017-06-15
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- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29
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* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28
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- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework. The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to *lexicographicMode* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed crash when attempting to report unsupported request/notification PDU back to sender.

Revision 4.3.5, released 2017-03-24
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- The getNext() and getBulk() calls of Twisted interface. now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification PDU back to sender.

Revision 4.3.4, released 2017-03-01
- Fix to low-level SNMP API example to accommodate changed pyasn1
  SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF
  API calls adjusted to accommodate changed pyasn1 API (in part
  of .setComponentBy*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as
  MIB objects. A side effect of this change is that additional
  var-binds can only be added prior to .resolveMibObjects() is
  run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256
  key localization algorithm implemented and set as default for
  usmAesCfb192Protocol and usmAesCfb256Protocol identifiers.
  Original and more standard implementation can still be used
  with the usmAesBlumenthalCfb192Protocol and
  usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and
  more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT
  based value parsing.
- Fix to NotificationType to make additional var-binds overriding
  MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are
  present (e.g. py2exe/cx_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break
  valid SNMP SET operations on tables if RowStatus column is not
  passed at the very end of var-binds.
- All SNMP counters now incremented via '+= 1' rather than 'x = x + 1'
to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION’s DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of ‘a’ and ‘t’ formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without ‘b’ qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12
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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to __doc__ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28
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- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:
* avoid binding to specific SNMP engine instance to promote single
SNMP app instance using many SNMP engine instances
* support two APIs for working with request data: one operates on the
whole PDU object while the other on PDU contents
* keep callback context data in stack rather than in stateful application
cache
* newly introduced sendVarBinds() method offers a more functional and
logical signatures.
* Promote the use of dedicated classes for dealing with OID-value pairs.
Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and
NOTIFICATION-TYPE MIB structures.
* Oneliner API reworked to become more generic: its LCD configuration
shortcuts and and var-bindings processing code split off SNMP apps
classes to stand-alone objects. The whole API also moved up in package
naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is
apparently an African fish). Old oneliner API remains fully operational
at its original location.
* Synchronous oneliner apps redesigned to offer Python generator-based
API along with a more comprehensive set of accepted parameters.
* Asyncore-based asynchronous apps reworked to become functions.
* Twisted API moved entirely into high-level domain to be aligned with
other high-level APIs. This WILL BREAK backward compatibility for
those apps that use Twisted API.
* Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library
documentation converted from .html into RsT markup.
- Execution Observer facility implemented to give app an inside view
of SNMP engine inner workings. This is thought to be a generic
framework for viewing (and modifying) various internal states
of pysnmp engine. Previously introduced non-standard APIs (like
getting peer's transport endpoint which is not suggested in RFCs)
will be gradually migrated to this new framework.
- Initial support for the asyncio & Trollius frameworks and
coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6
datagram transports are currently supported.
- Original asyncsock transport and AsyncsockDispatcher renamed into
asyncore and AsyncoreDispatcher respectively to provide better hint
to fellow devs on the underlying transport being used. Backward
compatibility preserved.
- The asyncore-based transport subsystem extended to support POSIX
sendmsg()/recvmsg() based socket communication what could be used,
among other things, in the context of a transparent SNMP proxy
application. Technically, the following features were brought
into pysnmp with this update:

* Sending SNMP packets from a non-local IP address
* Receiving IP packets for non-local IP addresses
* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.

- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object. That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.
- Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.
- Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.
- Built-in debugging is now based on Python logging module.
- Examples on a single Transport Dispatcher use with multiple SnmpEngine instances applicatons added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's communityName re-mapping added.
- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.
- New public DgramSocketTransport.getLocalAddress() returns local endpoint address underlying BSD socket is currently bound to.
- Passing request details to access control callback at CommandResponder reworked towards more robust and simple design with the execution observer facility.
- All MIBs rebuilt with pysmi.
- MIB instrumentation example improved to cover table index building facility.
- Handle the case of null writer at Debug printer.
- Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it be reused with many different snmpEngines.
- TRAP PDU agent address evaluation at proto.api made lazy to improve startup time.
- Multiple fixes to verify pyasn1 decoder.decode() return to withstand broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent across reboots.
- Make config.delTransport() returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
- Parts of SMIv1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIv1. Symbols defined in these MIBs only present in SMIv1 so they can't be substituted with their SMIv2 analogues.
- MibBuilder.addMibSources() convenience method added.
- The smi.MibBuilder() will now raise more specific exceptions (MibLoadError, MibNotFoundError) on MIB loading problems rather than more generic SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more generality to mimic OBJECT-TYPE macro capabilities related to SNMP PDU handling. The two new classes are ObjectIdentity and ObjectType. The ObjectIdentity class additionally supports just a MIB module name initializer in which case if resolves into either first or last symbol in given MIB. Another option is just a MIB symbol initializer without specifying MIB module. This new subsystem is moved from the scope of oneliner to more common pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it recognizes (PYSNMP_MIB_DIR, PYSNMP_MIB_DIRS, PYSNMP_MIB_PKGS) rather than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass constraints.
- A few additional MIB tree management methods added to MibViewController to better address ordered nature of MIB tree nodes (namely, getFirst*, getLast* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure: respond with notInTimeWindows rather then with unsupportedSecurityLevel at time synchronization phase.
- Fix to rfc1902.Bits type to make it accepting hex and binary initializers, cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across multiple GETBULK iterations so returned table for nonRepeaters columns would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting at rfc1902.OctetString on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature matching the rest of classes. This may broke code which used to pass namedValue parameter positionally rather than binding it by name.
- Fix to PDU translation service (proto.proxy.rfc2576) to make it initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving unique PDU request-id's in both outgoing and incoming confirmed and response PDU types. Duplicate request-id's in unrelated PDUs may
cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make
  the whole pysnmp package licensed under BSD 2-Clause license. This
  change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance
  from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController
  when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error
  (but ENOENT) and raise IOError uniformly on any directory/egg access
  failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02
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- License updated to vanilla BSD 2-Clause to ease package use
  (http://opensource.org/licenses/BSD-2-Clause).
- A dozen of lightweight Twisted-based example scripts replaced more
  complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized
  ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent
  at demo.snmplabs.com to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now
  be instructed to ignore portentially malformed errorIndex SNMP packet
  value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex
  value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator
  apps re-worked and improved. For instance it is now it's possible to run
  getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the
  scene.
- The $PYSNMP_MIB_DIR & $PYSNMP_MIB_DIRS & $PYSNMP_MIB_PKGS path separator
  made platform-specific.
- Change to rfc2576.v1tov2() logic: errorStatus = noSuchName is now
  translated into rfc1905.noSuchObject exception value for *all* var-bindings
  at once. Although RFC2576 does not suggest error-status -> v2c exception
  translation, historically pysnmp used to perform it for a long time so we
  can't easily stop doing that.
- Exception re-raising improved at MibInstrumController.flipFlopFsm() and
  asynsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple receivers (identified by IDs) chosen by a public data routing method.
- SnmpEngine.[un]registerTransportDispatcher() methods now accept optional receiver ID token to be used by transport dispatcher's data router. This allows for multiple SNMP engines registration with a single transport dispatcher.
- Distribute is gone, switched to setuptools completely.
- The snmpCommunityTable row selection improved to follow RFC2576, clause 5.2.1.
- Asyncore-based dispatcher attempts to use poll() whenever available on the platform. It would help handling a really large number (>1024) of file descriptors.
- AsynCommandGenerator.makeReadVarBinds() generalized into a new makeVarBinds() method which replaces somewhat redundant code at setCmd() and AsynNotificationOriginator.sendNotification().
- AsynCommandGenerator.uncfgCmdGen() & AsynNotificationOriginator.uncfgCmdGen() methods now accept optional authData parameter to remove specific entries from LCD. This can be useful for modifying security parameters for specific securityName.
- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData() renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo() method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport() and improved by automatically instantiating compatible TransportDispatcher making it dispatcher-agnostic. As an additional bonus, application may not call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented to communicate discovered peer SNMP engine information to SNMP apps what can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account securityModel & securityLevel when reducing LCD access via addTrapUser(). This improves LCD consistency on sparse add/del operations but also does not let you to configure different securityModels per securityName at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet_ntop()/inet_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working
in both Generator and Responder modes and better follow RFC2576 requirements on sequential entries lookup and selection. As a side effect, untagged snmpCommunityTable entries will *not* match tagged snmpTargetAddrTable entries and vice versa.

- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsynsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).
(transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover
many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.
- One liner example apps now include cases where non-default SNMP ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuidler() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than 2**17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification() 
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make a) the notificationType param mandatory b) the varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiaiton method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source
modules appeared to be unnecessary and even destructive to modules
data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System
  used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID
  values from SNMP engine's instrumentation rather than from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances
  creation.
- Fix to Management Instrumentation code to handle cases of non-initialized
  or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through
  SNMP working again. Wrong method (instumClone) was probed at terminal
  MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06
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- SECURITY FIX: USM subsystem did not verify securityLevel of a request
to an authoritative SNMP engine against auth/priv protocols
configured for the user in question. That allowed unauthenticated/unciphered
access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args
lookupNames, lookupValues that enable response OID / value looked up at
MIB and reported as a MibVariable container object carrying relevant
MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be
passed within a MibVariable container object which would do a deferred
MIB lookup for name resolution. This is a new and preferred API which
obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows
and ignoreNonIncreasingOid moved to optional keyword args of nextGen()
and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the
oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive
MibName's smiCreate()/smiWrite()/smiDestroy() methods with
MibScalarInstance's getValue()/setValue()
- MibTree.readTest[Get]Next() reworked to be called uniformly so
user could tap on these methods at any level of the MIB tree.
- Mib TableColumn.getNextNodeWithValue() unpublished API method obsoleted
and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system
operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses
local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports
added.
- Package version is now available as __init__.version and it is
in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine up time reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The notificationType parameter of AsynNotificationOriginator.sendNotification made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single sendPduHandle to an application even when multiple INFORMs are triggered and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT OIDs calculation.
- Fix to MiBTree class to properly report noSuchObject & noSuchInstance SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent ASN.1 parsing errors crashing the whole app.
- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to crash the whole SNMP engine.
- Fix to [possibly uninialized] pyasn1 objects printouts at MiBInstrumController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly. This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21
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- Oneliner CommandGenerator can now limit the number of SNMP table rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for
handling requests timeout to make packet flow time bound to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIv1 modules excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-* MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user infomation, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to loose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly tag SNMPv1/v2c auth and transport LCD rows what resulted in huge delays when processing incoming messages with large number of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.__repr__() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will carry an embedded label symbol.
- Explicit repr() calls replaced with '%r'
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.
Revision 4.2.1, released 2011-11-07
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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:

  + get rid of old-style types
  + drop string module usage
  + switch to rich comparison
  + drop explicit long integer type use
  + map()/filter() replaced with list comprehension
  + apply() replaced with var-args
  + dictionary operations made 2K/3K compatible
  + division operator made 2K/3K compatible
  + sorting function now operates on key
  + iterators returned by some funcs in py3k converted to lists
  + exception syntax made 2K/3K compatible
  + tuple function arguments resolved to scalars to become py3k compatible
  + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22
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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14
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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13
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- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17
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- Extended Security Options (3DESEDE, AES192, AES256) privacy
- The error-indication codes moved from literals to objects for reliability and clarity.
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:
  - all dict.has_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
  - introduce the MibNameControlle.readVarsFast() method (which skips the "testing" phase of MIB value readin) for dealing with internal configuration (LCD).
  - default debug.logger is now just a zero value instead of an object what saves big on frequent calls
  - SNMPv2-SMI columnar indices <-> index values conversion code optimized.
  - pre-compute and re-use some of ASN.1 structures.
  - avoid setting PDU defaults to save on unnecessary initialization.
  - skip ASN.1 types verification where possible.
  - at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
  - cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a, released 2010-12-13

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- SNMP Proxy example added.
- End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1). Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
- CommandResponder API now supports async mode of operation.
- SNMP exception values now exported from rfc1905 module, and made pretty printable.
- Lexicographic walking mode is now supported at oneliner CommandGenerator.
- ContextEngineId&ContextName parameters passing implemented at v3arch oneliner API.
- Multiple instances of the same transport domain now supported.
- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.
- Fix to $SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at
distincts search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional
non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering
multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better
timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This
defect may have caused an infinite loop on a multiple var-bind
SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered
passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes
it usable for configuring multiple contextName-bound bases of Managed
Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will
now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery
messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate
Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include
sole retries and do not include initial request. Thus, retryCount=1 will
now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09
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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where
indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based imcoming message filtering
implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03
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- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

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- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

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- Internal MIB indexing method __indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp
MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28
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- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14
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- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- __repr__() implemented for UdpTransportTarget, CommunityData, UsmUserData in oneliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules intact. Otherwise loadModules() called after setMibPath() might fail with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on destruction. This might have caused memory leaks.
- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of notificationType parameter of the sendNotification method in NotificationOriginator applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in setCm() and sendNotification() methods in CommandGenerator and NotificationOriginator applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value should be a one-based.

Revision 4.1.7a, released 2007-02-19

- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32,Unsigned32,TimeTicks,Counter64 value types in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code
whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention
class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now
double-underscore prefixed to make them imported explicitly by these
prefixed names. They used to be imported as a side-effect of
Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate
"ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799,
  #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods
to support specific value mangling. These methods, if present, would be
invoked from SNMP [Agent] core instead of conventional clone() method.
The reason is to separate trivial value duplication from specific
Instance value mangling that may have Agent-specific side effects
(such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical
  conversion.
- Various SNMP engine-internal caches expiration implemented.
- SMI-level access control now takes effect only if AC object is
  passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport
  instance per each SnmpEngine. Multithreaded apps might fail otherwise.
  (SF bug ID #1586420).
- Exclude the PYSNMP_MODULE_ID symbol from MIB view index, as it may get
  resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist
  for the same user otherwise.
- Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative
  and cached estimate otherwise. Also, a security fix applied to to USM
  time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at
  NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user
  information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed
to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592,
  #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220,
Revision 4.1.6a, released 2006-05-25
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- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create*/destroy* Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04
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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a, released 2005-08-16
------------------------------------

- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes authProtocol and privProtocol parameters in a backward incompatible
Revision 4.1.3a, released 2005-07-28
------------------------------------
- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12
------------------------------------
- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self-describing names for clarity.
- CommandResponder & NotificationOriginator applications now use stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29
------------------------------------
- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01
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- Adopted to slightly changed asyncore API (as shipped with python 2.4)

Revision 4.0.1a, released 2004-11-18
------------------------------------
- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15
------------------------------------
- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides
1) various access to MIB data 2) a way to implement custom MIB instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).

- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and quering becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

Found in path(s):
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/CHANGES.txt
No license file was found, but licenses were detected in source scan.

The library is being distributed under 2-clause BSD-style license.

Found in path(s):
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/docs/source/contents.rst
No license file was found, but licenses were detected in source scan.

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#   documentation and/or other materials provided with the distribution.

Found in path(s):
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/pysnmp/hlapi/asyncio/cmdgen.py
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/pysnmp/carrier/asyncio/dgram/udp.py
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/pysnmp/carrier/asyncio/dispatch.py
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/pysnmp/carrier/asyncio/base.py
* /opt/cola/permits/1229880809_1637279908_44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-
Further development

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawbacks: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**Done:** see `PySMI project <http://snmplabs.com/pysmi/>` in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions.
what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools
+++++++++++++++++++++++++++++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

**Done:** see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

**Done:** since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`

If you need some particular feature - please, `open a feature request <https://github.com/etingof/pysnmp/issues/new>`_. Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.
We require contributed code to run with Python 2.4 through the latest Python version (which is 3.7 at the time of this writing). Contributed code will be redistributed under the terms of the same `license <http://snmplabs.com/pysnmp/>`_ as PySNMP is.

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1.1077 emoji-regex 8.0.0

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1.1079 validate-npm-package-name 3.0.0

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1.1108 nytimes-gziphandler 1.1.1

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1.1116 jinja2 2.10

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1.1122 minipass-json-stream 1.0.1

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1.1123 distro-info-data 0.37ubuntu0.13

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1.1124 ryanuber-go-glob 1.0.0

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1.1126 go-autorest-tracing

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1.1148 icu 63.1-6+deb10u3

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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
THREDCPPFLAGS = -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 $< \ | sed \"s/(\^*)\(.*\).o :[^\^]*/\1.o $@ : /g\" > $@; \n
```bash
[ -s $@ ] || rm -f $@

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

1.1149 libhtml-parser-perl 3.72-3build1

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=back

=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;

$url = "http://www.perl.org/"; # for instance
$ua = LWP::UserAgent->new;
```
# Set up a callback that collect image links
my @imgs = ();
sub callback {
my($tag, %attr) = @_;
return if $tag ne 'img'; # we only look closer at <img ...>
push(@imgs, values %attr);
}
# Make the parser. Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(\&callback);
# Request document and parse it as it arrives
$res = $ua->request(HTTP::Request->new(GET => $url),
sub {$p->parse($_[0])});
# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;
# Print them out
print join("\n", @imgs), "\n";
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modify it under the same terms as Perl itself.
=cut
Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser3.72/lib/HTML/LinkExtor.pm
No license file was found, but licenses were detected in source scan.
=encoding utf8
=head1 NAME
HTML::Entities - Encode or decode strings with HTML entities

Open Source Used In SMI 2021.01.0-Apr-2022 13548


SYNOPSIS

use HTML::Entities;

$a = "Våre norske tegn b\&oslash;r &#230res";
decode_entities($a);
encode_entities($a, "\200-\377");

For example, this:

$input = "vis-à-vis Beyoncé’s naïve papier-mâché résumé";
print encode_entities($input), "\n"

Prints this out:

vis-à-vis Beyoncé’s naïve papier-mâché résumé

DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=over 4

=item decode_entities( $string, ... )

This routine replaces HTML entities found in the $string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities( $string, \%entity2char )

=item _decode_entities( $string, \%entity2char, $expand_prefix )

This will in-place replace HTML entities in $string. The \%entity2char hash must be provided. Named entities not found in the \%entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in \%entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be
single character strings. If a key has ":;" as suffix, then occurrences in $string are only expanded if properly terminated with ":;". Entities without ":;" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If $expand_prefix is TRUE then entities without trailing ":;" in %entity2char will even be expanded as a prefix of a longer unrecognized name. The longest matching name in %entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.

$string = "foo&nbspbar";
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);
print $string; # will print "foo bar"

This routine is exported by default.

=item encode_entities( $string )

=item encode_entities( $string, $unsafe_chars )

This routine replaces unsafe characters in $string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this, for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, and C<< " >> characters:

$encoded = encode_entities($input, '"\\&<>\');

and this would only encode non-plain ascii:

$encoded = encode_entities($input, '\^\n\x20-\x25\x27-\x7e');

This routine is exported by default.

=item encode_entities_numeric( $string )

=item encode_entities_numeric( $string, $unsafe_chars )

This routine works just like encode_entities, except that the replacement entities are always C<< &#xhexnum;>> and never C<< &entname;>>. For example, C<encode_entities("r\xF4le")> returns "r&amp;circ;le", but
C<encode_entities_numeric("r\xF4le")> returns "r&Eacute;lе".

This routine is I<not> exported by default. But you can always export it with C<use HTML::Entities qw(encode_entities_numeric)> or even C<use HTML::Entities qw(:DEFAULT encode_entities_numeric)>.

=back

All these routines modify the string passed as the first argument, if called in a void context. In scalar and array contexts, the encoded or decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you can call them as:

use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);

The module can also export the %char2entity and the %entity2char hashes, which contain the mapping from all characters to the corresponding entities (and vice versa, respectively).

=head1 COPYRIGHT

Copyright 1995-2006 Gisle Aas. All rights reserved.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Entities.pm
No license file was found, but licenses were detected in source scan.

cut

=head1 NAME

HTML::Parser - HTML parser class

cut

=head1 SYNOPSIS

use HTML::Parser ();

# Create parser object
$parser = HTML::Parser->new( api_version => 3,
Objects of the C<HTML::Parser> class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use C<HTML::PullParser>. This is an C<HTML::Parser> subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new C<HTML::Parser> object:

=item $p = HTML::Parser->new( %options_and_handlers )
This class method creates a new C<HTML::Parser> object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options. The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "<event>_h" (e.g., "text_h") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the 'handlers => [%handlers]' option. See examples below.

If new() is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of C<HTML::Parser>. See the section on "version 2 compatibility" below for details.

The special constructor option 'api_version => 2' can be used to initialize version 2 callbacks while still setting other options and handlers. The 'api_version => 3' option can be used if you don't want to set any options and don't want to fall back to v2 compatible mode.

Examples:

$p = HTML::Parser->new(api_version => 3,
    text_h => [ sub {...}, "dtext" ]);;

This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

$p = HTML::Parser->new(api_version => 3,
    start_h => [ 'my_start', "self,tokens" ]);;

This creates a new parser object with a start event handler method that receives the $p and the tokens array.

$p = HTML::Parser->new(api_version => 3,
    handlers => { text => [\@array, "event.text"],
                   comment => [\@array, "event.text"],
               });;

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:
=over

=item $p->parse( $string )

Parse $string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the $string in-place until $p->parse returns.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object ($p).

=item $p->parse( $code_ref )

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens $p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls $p->eof.

The effect of this is the same as:

while (1) {
    my $chunk = &$code_ref();
    if (!defined($chunk) || !length($chunk)) {
        $p->eof;
        return $p;
    }
    $p->parse($chunk) || return undef;
}

But it is more efficient as this loop runs internally in XS code.

=item $p->parse_file( $file )

Parse text directly from a file. The $file argument can be a filename, an open file handle, or a reference to an open file handle.

If $file contains a filename and the file can't be opened, then the method returns an undefined value and $! tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the $file argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse_file() may not have read the entire file.
On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if parse_file() is called on a file handle that is not in binary mode.

If a filename is passed in, then parse_file() will open the file in binary mode.

=item $p->eof

Signals the end of the HTML document. Calling the $p->eof method outside a handler callback will flush any remaining buffered text (which triggers the C<text> event if there is any remaining text).

Calling $p->eof inside a handler will terminate parsing at that point and cause $p->parse to return a FALSE value. This also terminates parsing by $p->parse_file().

After $p->eof has been called, the parse() and parse_file() methods can be invoked to feed new documents with the parser object.

The return value from eof() is a reference to the parser object.

=back

Most parser options are controlled by boolean attributes. Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over

=item $p->attr_encoded

=item $p->attr_encoded( $bool )

By default, the C<attr> and C<@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item $p->backquote

=item $p->backquote( $bool )
By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason. Enabling this attribute provides compatibility with this behaviour.

=item $p->boolean_attribute_value( $val )

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item $p->case_sensitive

=item $p->case_sensitive( $bool )

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item $p->closing_plaintext

=item $p->closing_plaintext( $bool )

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

=item $p->empty_element_tags

=item $p->empty_element_tags( $bool )

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

=item $p->marked_sections

=item $p->marked_sections( $bool )
By default, section markings like `<![CDATA[...]]>` are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

=item $p->strict_comment

=item $p->strict_comment( $bool )

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

</ comment>
<! comment>

=item $p->strict_end

=item $p->strict_end( $bool )

By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

=item $p->strict_names

=item $p->strict_names( $bool )

By default, almost anything is allowed in tag and attribute names. This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>

By default, "LIST]" is parsed as a boolean attribute, not as
part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST]" is not a legal attribute name.

=item $p->unbroken_text

=item $p->unbroken_text( $bool )

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first segment of text and C<length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.

=item $p->utf8_mode

=item $p->utf8_mode( $bool )

Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C<attr>, C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "&hearts;" or "&#x2665". If we feed the parser:

$ p->parse("\xE2\x99\xA5&hearts;");

then C<dtext> will be reported as "\xE2\x99\xA5\xE2\x99\xA5" without C<utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5\xE2\x99\xA5" when enabled. The later string is what you want.
This option is only available with perl-5.8 or better.

=item $p->xml_mode

=item $p->xml_mode( $bool )

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the C<case_sensitive>, C<empty_element_tags>, C<strict_names> and C<xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

=item $p->xml_pic

=item $p->xml_pic( $bool )

By default, I<processing instructions> are terminated by "">". When this attribute is enabled, processing instructions are terminated by "">" instead.

=back

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

=over

=item $p->handler( event => \&subroutine, $argspec )

=item $p->handler( event => $method_name, $argspec )

=item $p->handler( event => \@accum, $argspec )

=item $p->handler( event => "" );

=item $p->handler( event => undef );

=item $p->handler( event );

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document>, C<end_document> or C<default>.

The C<\&subroutine> is a reference to a subroutine which is called to handle the event.

The C<$method_name> is the name of a method of $p which is called to handle
the event.

The C<@accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored. If it is undef, the default handler is invoked for the event.

The C<$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The return value from $p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by invoking the $p->eof method. A handler callback is not allowed to invoke the $p->parse() or $p->parse_file() method. An exception will be raised if it tries.

Examples:

$p->handler(start =>  "start", 'self, attr, attrseq, text' );

This causes the "start" method of object $p to be called for ‘start’ events. The callback signature is $p->start(%attr, @attr_seq, $text).

$p->handler(start =>  \&start, 'attr, attrseq, text' );

This causes subroutine start() to be called for ‘start’ events. The callback signature is start(%attr, @attr_seq, $text).

$p->handler(start =>  @accum, '"S", attr, attrseq, text' );

This causes ‘start’ event information to be saved in @accum. The array elements will be ['S', %attr, @attr_seq, $text].

$p->handler(start => '"' );

This causes ‘start’ events to be ignored. It also suppresses invocations of any default handler for start events. It is in most cases equivalent to $p->handler(start => sub {}), but is more efficient. It is different from the empty-sub-handler in that C<skipped_text> is not reset by it.

$p->handler(start => undef);
This causes no handler to be associated with start events. If there is a default handler it will be invoked.

Filters based on tags can be set up to limit the number of events reported. The main bottleneck during parsing is often the huge number of callbacks made from the parser. Applying filters can improve performance significantly.

The following methods control filters:

=item $p->ignore_elements( @tags )

Both the C<start> event and the C<end> event as well as any events that would be reported in between are suppressed. The ignored elements can contain nested occurrences of itself. Example:

$p->ignore_elements(qw(script style));

The C<script> and C<style> tags will always nest properly since their content is parsed in CDATA mode. For most other tags C<ignore_elements> must be used with caution since HTML is often not I<well formed>.

=item $p->ignore_tags( @tags )

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

=item $p->report_tags( @tags )

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:
results in only C<script> events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

=item C<attr>

Attr causes a reference to a hash of attribute name/value pairs to be passed.

Boolean attributes' values are either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

General entities are decoded in the attribute values and one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as individual arguments and the original sequence of the attributes is kept. The parameters passed will be the same as the @attr calculated here:

    @attr = map { $_ => $attr->{$_} } @$attrseq;

assuming $attr and $attrseq here are the hash and array passed as the result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>
Attrseq causes a reference to an array of attribute names to be passed. This can be useful if you want to walk the `attr` hash in the original sequence.

This passes `undef` except for `start` events.

Unless `xml_mode` or `case_sensitive` is enabled, the attribute names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed. The first column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are automatically decoded unless the event was inside a CDATA section or was between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

The Unicode character set is assumed for entity decoding. With Perl version 5.6 or earlier only the Latin-1 range is supported, and entities for characters outside the range 0..255 are left unchanged.

This passes `undef` except for `text` events.

=item C<event>

Event causes the event name to be passed.

The event name is one of `text`, `start`, `end`, `declaration`, `comment`, `process`, `start_document` or `end_document`.

=item C<is_cdata>

Is_cdata causes a TRUE value to be passed if the event is inside a CDATA section or between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

if the flag is FALSE for a text event, then you should normally either use `dtext` or decode the entities yourself before the text is processed further.

=item C<length>

Length causes the number of bytes of the source text of the event to be passed.
Line causes the line number of the start of the event to be passed. The first line in the document is 1. Line counting doesn't start until at least one handler requests this value to be reported.

Offset causes the byte position in the HTML document of the start of the event to be passed. The first byte in the document has offset 0.

Offset_end causes the byte position in the HTML document of the end of the event to be passed. This is the same as offset + length.

Self causes the current object to be passed to the handler. If the handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures that capture $self by themselves as handlers. Unfortunately this creates circular references which prevent the HTML::Parser object from being garbage collected. Using the self argspec avoids this problem.

Skipped_text returns the concatenated text of all the events that have been skipped since the last time an event was reported. Events might be skipped because no handler is registered for them or because some filter applies. Skipped text also includes marked section markup, since there are no events that can catch it.

If an ""-handler is registered for an event, then the text for this event is not included in skipped_text. Skipped text both before and after the ""-event is included in the next reported skipped_text.

Same as tagname, but prefixed with "/" if it belongs to an end event and "!" for a declaration. The tag does not have any prefix for start events, and is in this case identical to tagname.
This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange.
In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be passed. This should always be the same as $tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C<tokens>, this array contains two numbers. The first number is the offset of the start of the token in the original C<text> and the second number is the length of the token.

Boolean attributes in a C<start> event will have (0,0) for the attribute value offset and length.

This passes undef if there are no tokens in the event (e.g., C<text>) and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you should either work from right to left, or be very careful to calculate the changes to the offsets.

=item C<tokens>
Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If $p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

For C<end> events, this contains the original tag name (always one token).

For C<process> events, this contains the process instructions (always one token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

=item C<'...'>

A literal string of 0 to 255 characters enclosed in single (') or double (") quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<@{...}> to signal that the resulting event array should be flattened. This only makes a difference if an array reference is used as the handler target. Consider this example:

```perl
$p->handler(text => [], 'text');
$p->handler(text => [], '@{text}');
```
With two text events; C<"foo">, C<"bar">; then the first example will end up with [["foo"], ["bar"]]] and the second with ["foo", "bar"] in the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item C<comment>

This event is triggered when a markup comment is recognized.

Example:

<!-- This is a comment -- -- So is this -->

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are likely to find is <!DOCTYPE ...>.

Example:

<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">

DTDs inside <!DOCTYPE ...> will confuse HTML::Parser.

=item C<default>

This event is triggered for events that do not have a specific handler. You can set up a handler for this event to catch stuff you did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

</A>

=item C<end_document>
This event is triggered when $p->eof is called and after any remaining
text is flushed. There is no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is
recognized.

The format and content of processing instructions are system and
application dependent.

Examples:

<? HTML processing instructions >
<? XML processing instructions ?>

=item C<start>

This event is triggered when a start tag is recognized.

Example:

<A HREF="http://www.perl.com/>

=item C<start_document>

This event is triggered before any other events for a new document. A
handler for it can be used to initialize stuff. There is no document
text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized.
The text may contain multiple lines. A sequence of text may be broken
between several text events unless $p->unbroken_text is enabled.

The parser will make sure that it does not break a word or a sequence
of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser> can parse Unicode strings when running under
perl-5.8 or better. If Unicode is passed to $p->parse() then chunks
of Unicode will be reported to the handlers. The offset and length
argspecs will also report their position in terms of characters.
It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use I<argspecs> that do, or enable the C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to $p->parse_file() then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

    open(my $fh, "<:utf8", "index.html") || die "...: $!";
    $p->parse_file($fh);

If the file contains text encoded in a charset besides ASCII, Latin-1 or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an C<HTML::Parser> object is constructed with no arguments, a set of handlers is automatically provided that is compatible with the old HTML::Parser version 2 callback methods.

This is equivalent to the following method calls:

    $p->handler(start => "start",  "self, tagname, attr, attrseq, text");
    $p->handler(end  => "end",     "self, tagname, text");
    $p->handler(text => "text",    "self, text, is_cdata");
    $p->handler(process => "process", "self, token0, text");
    $p->handler(comment =>
       sub { my($self, $tokens) = @_;
       for (@$tokens) {$self->comment($_);}},
       "self, tokens");
    $p->handler(declaration =>
       sub { my $self = shift;
       $self->declaration(substr($_[0], 2, -1));},
       "self, text");

Setting up these handlers can also be requested with the "api_version => 2" constructor option.

=head1 SUBCLASING
The C<HTML::Parser> class is subclassable. Parser objects are plain
hashes and C<HTML::Parser> reserves only hash keys that start with
"_hparser". The parser state can be set up by invoking the init()
method, which takes the same arguments as new().
=head1 EXAMPLES
The first simple example shows how you might strip out comments from
an HTML document. We achieve this by setting up a comment handler that
does nothing and a default handler that will print out anything else:
use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
comment_h => [""],
)->parse_file(shift || die) || die $!;
An alternative implementation is:
use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift },
'skipped_text'],
comment_h
=> [""],
)->parse_file(shift || die) || die $!;
This will in most cases be much more efficient since only a single
callback will be made.
The next example prints out the text that is inside the <title>
element of an HTML document. Here we start by setting up a start
handler. When it sees the title start tag it enables a text handler
that prints any text found and an end handler that will terminate
parsing as soon as the title end tag is seen:
use HTML::Parser ();
sub start_handler
{
return if shift ne "title";
my $self = shift;
$self->handler(text => sub { print shift }, "dtext");
$self->handler(end => sub { shift->eof if shift eq "title"; },
"tagname,self");
}
my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";

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More examples are found in the F<eg/> directory of the C<HTML-Parser> distribution: the program C<hrefsub> shows how you can edit all links found in a document; the program C<htextsub> shows how to edit the text only; the program C<hstrip> shows how you can strip out certain tags/elements and/or attributes; and the program C<htext> show how to obtain the plain text, but not any script/style content.

You can browse the F<eg/> directory online from the I<[Browse]> link on the http://search.cpan.org/~gaas/HTML-Parser/ page.

=head1 BUGS

The <style> and <script> sections do not end with the first "</", but need the complete corresponding end tag. The standard behaviour is not really practical.

When the I<strict_comment> option is enabled, we still recognize comments where there is something other than whitespace between even and odd "--" markers.

Once $p->boolean_attribute_value has been set, there is no way to restore the default behaviour.

There is currently no way to get both quote characters into the same literal argspec.

Empty tags, e.g. "<>" and "</>", are not recognized. SGML allows them to repeat the previous start tag or close the previous start tag respectively.

NET tags, e.g. "code//" are not recognized. This is SGML shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt<b>...</b</tt>" are not recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a hash as required by the HTML::Parser methods.
=item Bad signature in parser state object at %p

(F) The _hparser_xs_state element does not refer to a valid state structure.
Something must have changed the internal value
stored in this hash element, or the memory has been overwritten.

=item _hparser_xs_state element is not a reference

(F) The _hparser_xs_state element has been destroyed.

=item Can't find '_hparser_xs_state' element in HTML::Parser hash

(F) The _hparser_xs_state element is missing from the parser hash.
It was either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s

(F) The constructor option 'api_version' with an argument greater than
or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the new() or
init() methods.

=item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method.
This is not permitted.

=item marked sections not supported

(F) The $p->marked_sections() method was invoked in a HTML::Parser
module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for
boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for $p->handler must be either a subroutine
reference, then name of a subroutine or method, or a reference to an
array.

=item No handler for %s events
(F) The first argument to $p->handler must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

=item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name. Use one of the names mentioned in the argspec section above.

=item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

=item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals. It is reserved to permit quoting inside a literal in a later version.

=item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",,.

=item Parsing of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one or more argspecs that decode entities are used for the callback handlers.

The result of decoding will be a mix of encoded and decoded characters for any entities that expand to characters with code above 127. This is not a good thing.

The recommended solution is to apply Encode::decode_utf8() on the data before feeding it to the $p->parse(). For $p->parse_file() pass a file that has been opened in "utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before passing strings to $p->parse(). The parser can process raw undecoded UTF-8
sanely if the \texttt{C<utf8_mode>} is enabled, or if the "\texttt{attr}", "\texttt{@attr}" or "\texttt{dtext}" argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a legal Unicode character but a byte swapped BOM. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokeParser>, L<HTML::HeadParser>,
L<HTML::LinkExtor>, L<HTML::Form>

L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)

L<http://www.w3.org/TR/html4/>

More information about marked sections and processing instructions may be found at L<http://www.is-thought.co.uk/book/sgml-8.htm>.

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm

No license file was found, but licenses were detected in source scan.
/*
 * Copyright 1999-2016, Gisle Aas
 * Copyright 1999-2000, Michael A. Chase
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h

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

=head1 NAME

HTML::TokeParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

require HTML::TokeParser;
$p = HTML::TokeParser->new("index.html") ||
    die "Can't open: $!"
$p->empty_element_tags(1);  # configure its behaviour

while (my $token = $p->get_token) {
    #...
}

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the
C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a
predeclared set of token types. If you wish the tokens to be reported
differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item $p = HTML::TokeParser->new( $filename, %opt );

=item $p = HTML::TokeParser->new( $filehandle, %opt );

=item $p = HTML::TokeParser->new( $document, %opt );

The object constructor argument is either a file name, a file handle
object, or the complete document to be parsed. Extra options can be provided as key/value pairs and are processed as documented by the base classes.

If the argument is a plain scalar, then it is taken as the name of a file to be opened and parsed. If the file can’t be opened for reading, then the constructor will return C<undef> and $! will tell you why it failed.

If the argument is a reference to a plain scalar, then this scalar is taken to be the literal document to parse. The value of this scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the C<HTML::TokeParser> can read() from when it needs more data. Typically it will be a filehandle of some kind. The stream will be read() until EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes by having the C<unbroken_text> attribute enabled by default. See L<HTML::Parser> for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable C<empty_element_tags> behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn on UTF-8 decoding:

```
open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
my $p = HTML::TokeParser->new( $fh );
# ...
```

If a $filename is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```
utf8::decode($document);
my $p = HTML::TokeParser->new( $document );
# ...
```

=item $p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag,
"T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

["S", $tag, $attr, $attrseq, $text]
["E", $tag, $text]
["T", $text, $is_data]
["C", $text]
["D", $text]
["PI", $token0, $text]

where $attr is a hash reference, $attrseq is an array reference and the rest are plain scalars. The L<HTML::Parser/Argspec> explains the details.

=item $p->unget_token( @tokens )

If you find you have read too many tokens you can push them back, so that they are returned the next time $p->get_token is called.

=item $p->get_tag

=item $p->get_tag( @tags )

This method returns the next start or end tag (skipping any other tokens), or C<undef> if there are no more tags in the document. If one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

$p->get_tag("font", "/font");

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as for $p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

[$tag, $attr, $attrseq, $text]

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

["/$tag", $text]

=item $p->get_text

=item $p->get_text( @endtags )
This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

```perl
$p->get_text("p", "br");
```

will return the text up to either a paragraph or linebreak element.

The text might span tags that should be I<textified>. This is controlled by the $p->{textify} attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default $p->{textify} value is:

```perl
{ img => "alt", applet => "alt" }
```

This means that <IMG> and <APPLET> tags are treated as text, and that the text to substitute can be found in the ALT attribute.

```perl
=item $p->get_trimmed_text

=item $p->get_trimmed_text( @endtags )
```

Same as $p->get_text above, but will collapse any sequences of white space to a single space character. Leading and trailing white space is removed.

```perl
=item $p->get_phrase
```

This will return all text found at the current position ignoring any phrasal-level tags. Text is extracted until the first non phrasal-level tag. Textification of tags is the same as for get_text(). This method will collapse white space in the same way as get_trimmed_text() does.

The definition of <i>phrasal-level tags</i> is obtained from the HTML::Tagset module.
EXAMPLES

This example extracts all links from a document. It will print one line for each link, containing the URL and the textual description between the <A>...</A> tags:

use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");

while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || "-";
    my $text = $p->get_trimmed_text("/a");
    print "$url	$text\n";
}

This example extract the <TITLE> from the document:

use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");
if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title\n";
}

SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

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NAME

HTML::Filter - Filter HTML text through the parser
=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the
functionality of C<HTML::Filter> much more efficiently with the
C<default> handler.

=head1 SYNOPSIS

require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the
original text of each HTML element (a slow version of cat(1) basically).
The callback methods may be overridden to modify the filtering for some
HTML elements and you can override output() method which is called to
print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that
the document should be given to the parser by calling the $p->parse()
or $p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an
HTML file. This is achieved by simply overriding the comment method
to do nothing.

package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { }  # ignore comments

The second example shows a filter that will remove any E<lt>TABLE>s
found in the HTML file. We specialize the start() and end() methods
to count table tags and then make output not happen when inside a
table.

package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
    my $self = shift;
    $self->{table_seen}++ if $_[0] eq "table";
    $self->SUPER::start(@_);
}
sub end
{
my $self = shift;
$self->SUPER::end(@_);
$self->{table_seen}-- if $_[0] eq "table";
}
sub output
{
my $self = shift;
unless ($self->{table_seen}) {
$self->SUPER::output(@_);
}
}
If you want to collect the parsed text internally you might want to do
something like this:
package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]->{fhtml}}, $_[1]) }
sub filtered_html { join("", @{$_[0]->{fhtml}}) }
=head1 SEE ALSO
L<HTML::Parser>
=head1 COPYRIGHT
Copyright 1997-1999 Gisle Aas.
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modify it under the same terms as Perl itself.
=cut
Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser3.72/lib/HTML/Filter.pm
No license file was found, but licenses were detected in source scan.
OVERVIEW
The HTML-Parser distribution is is a collection of modules that parse
and extract information from HTML documents. The modules present in
this collection are:

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HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML &lt;entities&gt;:

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the <HEAD> section of an HTML document.

HTML::LinkExtor - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokeParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

perl Makefile.PL
make
make test
make install

REPORTING BUGS
Bug reports and issues for discussion about these modules can be sent to the `<libwww@perl.org>` mailing list.

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Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/README
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/*
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 */

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/util.c
No license file was found, but licenses were detected in source scan.

=back

=head1 EXAMPLE

```perl
$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse("<EOT)
<title>Stupid example</title>
;base href="http://www.linpro.no/lwp/"
Normal text starts here.
EOT
undef $p;
print $h->title; # should print "Stupid example"
```

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the
I<libwww-perl> package. If you don't have that distribution installed you need to provide the $header argument to the C<HTML::HeadParser> constructor with your own object that implements the documented protocol.

=head1 COPYRIGHT

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=cut

Found in path(s):
  * /opt/cola/permits/1119808571_1609893015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/HeadParser.pm
No license file was found, but licenses were detected in source scan.

/*/ 
  * Copyright 1999-2016, Gisle Aas.
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  * 
  * This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
  */

Found in path(s):
  * /opt/cola/permits/1119808571_1609893015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.xs
No license file was found, but licenses were detected in source scan.

---
abstract: 'HTML parser class'
author:
  - 'Gisle Aas <gisle@activestate.com>'
built_requires:
  ExtUtils::MakeMaker: 0
  Test::More: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: HTML-Parser
no_index:
directory:
  - t
  - inc
recommends:
  HTTP::Headers: 0
requires:
  HTML::Tagset: 3
  XSLoader: 0
  perl: 5.008
resources:
  MailingList: mailto:libwww@perl.org
  repository: http://github.com/gisle/html-parser
  version: 3.72

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

use HTML::PullParser;

$p = HTML::PullParser->new(file => "index.html",
     start => 'event, tagname, @attr',
     end   => 'event, tagname',
     ignore_elements => [qw(script style)],
) || die "Can't open: $!"
while (my $token = $p->get_token) {
    #...do something with $token
}

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class. It basically turns the HTML::Parser inside out. You associate a file (or any IO::Handle object or string) with the parser at construction time and then repeatedly call $parser->get_token to obtain the tags and text found in the parsed document.

The following methods are provided:

=over 4
A C<HTML::PullParser> can be made to parse from either a file or a literal document based on whether the C<file> or C<doc> option is passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and $! will tell you why it failed. Otherwise the argument is taken to be some object that the C<HTML::PullParser> can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an argspec (as defined in L<HTML::Parser>) with the events you have an interest in. For instance, if you want C<start> tokens to be reported as the string C<S> followed by the tagname and the attributes you might pass an C<start>-option like this:

```
$p = HTML::PullParser->new(
    doc => $document_to_parse,
    start => "S", tagname, @attr,
    end => "E", tagname,
);
```

At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

If you find out you have read too many tokens you can push them back,
so that they are returned again the next time $p->get_token is called.

=back

=head1 EXAMPLES

The 'eg/hform' script shows how we might parse the form section of
HTML::Documents using HTML::PullParser.

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::TokeParser>

=head1 COPYRIGHT

Copyright 1998-2001 Gisle Aas.

This library is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=cut

Found in path(s):

*/opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1.tar.gz/HTML-Parser-3.72/lib/HTML/PullParser.pm*

1.1150 ruby-minitest 5.10.3-1

1.1150.1 Available under license :

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

= minitest/{test,spec,mock,benchmark }

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurhn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.
== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
  def i_can_has_cheezburger?
    "OHA!"
  end

  def will_it_blend?
    "YES!"
  end
end

=== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHA!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end
end
def test_that_will_be_skipped
   skip "test this later"
end
end

=== Specs

require "minitest/autorun"

describe Meme do
   before do
      @meme = Meme.new
   end

   describe "when asked about cheeseburgers" do
      it "must respond positively" do
         @meme.i_can_has_cheezburger?.must_equal "OHAI!"
      end
   end

   describe "when asked about blending possibilities" do
      it "won't say no" do
         @meme.will_it_blend?.wont_match /^no/i
      end
   end

end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
   # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
   def bench_my_algorithm
      assert_performance_linear 0.9999 do |n| # n is a range value
         @obj.my_algorithm(n)
      end
   end
end
Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `<tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end
outputs something like:

```
# Running benchmarks:

TestBlah100100010000  
bench_my_algorithm 0.006167 0.079279 0.786993  
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?
    @meme.__send__(method)
  end
end
require "minitest/autorun"
describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value
      @meme_answer = "will it blend"
      @meme_answer = @meme_asker.ask "will it blend"
      @meme.verify
    end
  end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't
you can use regular ruby patterns and facilities like local variables. Here's
an example of asserting that code inside a thread is run:

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at
http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of
the block.

def test_stale_eh
  obj_under_test = Something.new
  refute obj_under_test.stale?
  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)
```

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help Display this help.
  -s, --seed SEED Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose Verbose. Show progress processing files.
  -n, --name PATTERN Filter run on /regexp/ or string.
  -e, --exclude PATTERN Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride Pride. Show your testing pride!
  -a, --autotest Connect to autotest server.
```

== Writing Extensions

To define a plugin, add a file named `minitest/XXX_plugin.rb` to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call `plugin_XXX_init` during startup. The option processor will also try to call `plugin_XXX_options` passing the OptionParser instance and the current options hash. This
lets you register your own command-line options. Here's a totally
totaly example:

# minitest/bogus_plugin.rb:

module Minitest
def self.plugin_bogus_options(opts, options)
  opts.on "--myci", "Report results to my CI" do
    options[:myci] = true
    options[:myci_addr] = get_myci_addr
    options[:myci_port] = get_myci_port
  end
end
end

def self.plugin_bogus_init(options)
  self.reporter << MyCI.new(options) if options[:myci]
end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple
reporter instances. You can add new reporters to the composite during
the init_plugins phase. As we saw in +plugin_bogus_init+ above, you
simply add your reporter instance to the composite via <tt><</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it
and override any method you want to achieve your desired behavior.

  start  :: Called when the run has started.
  record :: Called for each result, passed or otherwise.
  report :: Called at the end of the run.
  passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
class MyCI < AbstractReporter
  attr_accessor :results, :addr, :port

  def initialize options
    self.results = []
    self.addr = options[:myci_addr]
    self.port = options[:myci_port]
  end
end
def record result
    self.results << result
end

def report
    CI.connect(addr, port).send_results self.results
end

describe Worker do
    before do
        @worker = Worker.new(Object.new)
    end

    it "must respond to work" do
        @worker.must_respond_to :work
    end
end

outputs a failure:

1) Failure:
   Worker#test_0001_must respond to work [bug11.rb:16]:
   Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
Expectations are put on Object (one level down) so the Worker
(SimpleDelegate) hits +method_missing+ and delegates down to the
+Object.new+ instance. That object doesn't respond to work so the test
fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end

or you can extend the Worker class (within the test file!), like:

class Worker
  include ::Minitest::Expectations
end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so, in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri  
* rails (active_support et al)  
* rake  
* rdoc  
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```
--- expected  
+++ actual  
@@ -1,2 +1,3 @@
 # encoding: UTF-8
 -"Expected /\w+/ to not match "blah blah blah"."
 +"Expected /\w+/ to not match # encoding: UTF-8
 +"blah blah blah"
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).
Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

```
4) Failure:  
TestMinitestUnitTestCase#test_assert_equal_different_long
```
5) Failure:
TestMinitestUnitTest#test_assert_equal_different_collection_hash_hex_invisible

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don’t, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm (make sure to add it to your PATH).

You can make sure it’s installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g. <tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter. E.g. <tt>it "requires JS driver", js: true do</tt> & <tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
minitest-around :: Around block for minitest. An alternative to setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to
be used during development.

- **minitest-bacon**: minitest-bacon extends minitest with bacon-like functionality.
- **minitest-bang**: Adds support for RSpec-style let! to immediately invoke let statements before each test.
- **minitest-bisect**: Helps you isolate and debug random test failures.
- **minitest-blink1_reporter**: Display test results with a Blink1.
- **minitest-capistrano**: Assertions and expectations for testing Capistrano recipes.
- **minitest-capybara**: Capybara matchers support for minitest unit and spec.
- **minitest-chef-handler**: Run Minitest suites as Chef report handlers
- **minitest-ci**: CI reporter plugin for Minitest.
- **minitest-context**: Defines contexts for code reuse in Minitest specs that share common expectations.
- **minitest-debugger**: Wraps assert so failed assertions drop into the ruby debugger.
- **minitest-display**: Patches Minitest to allow for an easily configurable output.
- **minitest-documentation**: Minimal documentation format inspired by rspec's.
- **minitest-doc_reporter**: Detailed output inspired by rspec's documentation format.
- **minitest-emoji**: Print out emoji for your test passes, fails, and skips.
- **minitest-english**: Semantically symmetric aliases for assertions and expectations.
- **minitest-excludes**: Clean API for excluding certain tests you don't want to run under certain conditions.
- **minitest-fail-fast**: Reimplements RSpec's "fail fast" feature
- **minitest-filecontent**: Support unit tests with expectation results in files. Differing results will be stored again in files.
- **minitest-filesystem**: Adds assertion and expectation to help testing filesystem contents.
- **minitest-firemock**: Makes your Minitest mocks more resilient.
- **minitest-focus**: Focus on one test at a time.
- **minitest-gcstats**: A minitest plugin that adds a report of the top tests by number of objects allocated.
- **minitest-great_expectations**: Generally useful additions to minitest's assertions and expectations.
- **minitest-growl**: Test notifier for minitest via growl.
- **minitest-happy**:: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
- **minitest-have_tag**: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
- **minitest-hooks**: Around and before_all/after_all/around_all hooks
- **minitest-hyper**: Pretty, single-page HTML reports for your Minitest runs
- **minitest-implicit-subject**: Implicit declaration of the test subject.
- **minitest-instrument**: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette managment with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoudla
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:
* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

    gem "minitest"     # ensures you"re using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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# more details.

Found in path(s):
* /opt/cola/permits/1176326078_1624685507.32/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/lib/minitest/benchmark.rb

1.1151 bcrypt 3.2.0

1.1151.1 Available under license :

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1.1153 minipass-fetch 2.0.2

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1.1154 msgpack-python 0.5.6

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1.1161 elastic-go-sysinfo 1.1.1

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1.1162 iconv-lite 0.4.24

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1.1163 influxdata-wlog 0.0.0-20160411224016-7c63b0a71ef8

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1.1164 rake 12.3.1

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

Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.
Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian
Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
PAM_MODUTIL_DEF_PRIVS(privs);
+
+
/* Get the password entry */
+
pwd = pam_modutil_getpwnam (pamh, user);
+
if (pwd != NULL)
+
{
+
if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+
pam_syslog(pamh, LOG_ERR,
+
"Unable to change UID to %d temporarily\n",
+
pwd->pw_uid);
+
retval = PAM_SESSION_ERR;
+
goto finished;
+
}
+
+
if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+
goto finished;
+
if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+
goto finished;
+
+
if (stat(flag, &s) != 0)
+
{
+
display_file(pamh, "/etc/legal");

Open Source Used In SMI 2021.01.0-Apr-2022 13636


mkdir(dir, 0700);

f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
       S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);

if (f>=0) close(f);

+ finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+                    "Unable to change UID back to %d", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+         }
+
+         _pam_drop(flag);
+         _pam_drop(dir);
+     }
+
+     return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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1.1166 github.com/centrifugal/centrifuge

0.11.0

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1.1168 confd-api-bridge SNAPSHOT

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---

layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_current: "docs-http-system-license"
description: |
The "/sys/license" endpoint is used to view and update the license used in Vault.

# "/sys/license"

--> **Enterprise Only** These endpoints require Vault Enterprise.
The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
<th align="left">Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
<td align="left"><code>200 application/json</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl --header "X-Vault-Token: ..." http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
<th align="left">Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
<td align="left"><code>204 (empty body)</code></td>
</tr>
</tbody>
</table>
### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \n  --request PUT \n  --data @payload.json \n  http://127.0.0.1:8200/v1/sys/license
```

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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1177 kubernetes-apimachinery 0.0.0-20191004115801-a2eda9f80ab8

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"  
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
    `\n`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }

        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }

        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }

        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }

        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
t.Fatal(err)
}
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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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file (certdata.txt). This file can be found in the mozilla source tree:
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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1188 appdirs 1.4.4
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1.1195 ip-address 1.0.17

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: itsdangerous
Upstream-Contact: Armin Ronacher <armin.ronacher@active-4.com>
Source: https://github.com/mitsuhiko/itsdangerous

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1.1199 python-debian 0.1.32
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#!/usr/bin/python

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### Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

```
find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py
```

The --suppress_warnings and --summary flags can be used to make the program
output less verbose.

```python
import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()
```
if args.suppress_warnings:
    warnings.filterwarnings('ignore', module='debian.copyright')

problems = {}
parse_failures = []
dump_failures = []

total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append((filename, e))
            continue
        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append((filename, e))

        if not c.header.known_format():
            problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./ '):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(', '):
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)

    if invalid_globs:
        problems.setdefault((4, 'Invalid glob'), []).append(}
(filename, invalid_globs))
if globs_with_leading_dot_slash:
problems.setdefault((5, 'Globs with leading ./'), []).append(
(filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
problems.setdefault((6, 'Globs with trailing ,'), []).append(
(filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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"""Utilities for parsing and creating machine-readable debian/copyright files.
The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Start from the Coyright docstring for usage information.
"""
from __future__ import unicode_literals

Open Source Used In SMI 2021.01.0-Apr-2022 14015


import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = ('http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
)

_KNOWN_FORMATS = frozenset([
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
]
)

class Error(Exception):
    """Base class for exceptions in this module.""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file.""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
        print('Upstream name: ', header.upstream_name)
        lic = header.license
        if lic:
            print('Overall license: ', lic.synopsis)

    """
# You can also retrieve and set custom fields.
header['My-Special-Field'] = 'Very special'

# Find the license for a given file.
paragraph = c.find_files_paragraph('debian/rules')
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
    file-like object. If not specified, a blank Copyright object is
    initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
    It is recommended to use unicode objects everywhere instead, e.g.
    by opening files in text mode.

    Raises:
    NotMachineReadableError if 'sequence' does not contain a
    machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
                p = FilesParagraph(p)
            elif 'License' in p:
                p = LicenseParagraph(p)
            else:
warnings.warn('Non-header paragraph has neither "Files"'
    ' nor "License" fields')
    self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph.""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.
    ""
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information
    ""
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    ""
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
result = p
return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    ""
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')
    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """ Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    ""
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
""
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        if return_string:
            return_string = False
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."
    if '\n' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in s, with whitespace stripped, as a tuple."""
        return tuple(v for v in
                     (line.strip() for line in (s or '').strip().splitlines())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if '\n' in s:
                raise ValueError('values must not contain newlines')
            return s

        if len(l) == 1:
            return process_and_validate(l[0])

        tmp = ['']
        for s in l:
            tmp.append(' ' + process_and_validate(s))
        return '\n'.join(tmp)
class _SpaceSeparated(object):
"""Namespace for conversion methods for space-separated lists as tuples."""
# TODO(jsw): Expose this somewhere else? It may have more general utility.
_has_space = re.compile(r'\s')
@staticmethod
def from_str(s):
"""Returns the values in s as a tuple (empty if only whitespace)."""
return tuple(v for v in (s or '').split() if v)
@classmethod
def to_str(cls, seq):
"""Returns the sequence as a space-separated string (None if empty)."""
l = list(seq)
if not l:
return None
tmp = []
for s in l:
if cls._has_space.search(s):
raise ValueError('values must not contain whitespace')
s = s.strip()
if not s:
raise ValueError('values must not be empty')
tmp.append(s)
return ' '.join(tmp)

# TODO(jsw): Move multiline formatting/parsing elsewhere?
def format_multiline(s):
"""Formats multiline text for insertion in a Deb822 field.
Each line except for the first one is prefixed with a single space. Lines
that are blank or only whitespace are replaced with ' .'
"""
if s is None:
return None
return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
"""Same as format_multline, but taking input pre-split into lines."""
out_lines = []
for i, line in enumerate(lines):
if i != 0:
if not line.strip():

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```python
def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with '. '. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ')') from each proceeding line.
    - Replaces any line that is '.' with an empty line.
    ""
    if s is None:
        return None
    return ''.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    ""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines
```

```python
class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable.""

def __new__(cls, synopsis, text=''):  
    """Creates a new License object.

    :param synopsis: The short name of the license, or an expression giving
                     alternatives. (The first line of a License field.)
    :param text: The full text of the license, if any (may be None). The
```
lines should not be mangled for "deb822"-style wrapping - i.e. they should not have whitespace prefixes or single '.' for empty lines.

```python
return super(License, cls).__new__(
    cls, synopsis=_single_line(synopsis), text=(text or ''))
```

@classmethod
def from_str(cls, s):
    if s is None:
        return None
    lines = parse_multiline_as_lines(s)
    if not lines:
        return cls('')
    return cls(lines[0], text='
'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''Returns an re object for the given globs.
    
    Only * and ? wildcards are supported. Literal * and ? may be matched via \* and \?, respectively. A literal backslash is matched \\ Any other character after a backslash is forbidden.
    
    Empty globs match nothing.
    
    Raises ValueError if any of the globs is illegal.
    
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('.')
            elif c == '\':
                buf.write('\')
            elif c in '?:*':
                continue
            else:
                raise ValueError('Illegal wildcard {}'.format(c))
        buf.write(glob[i:])
    return re.compile(buf.getvalue())
```
if i < n:
    c = glob[i]
    i += 1
else:
    raise ValueError('single backslash not allowed at end')
if c in r'\?*':
    buf.write(re.escape(c))
else:
    raise ValueError(r'invalid escape sequence: \%s' % c)
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    """

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError("'Files' field required'
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

        if not self.files:
            warnings.warn('Files paragraph has empty Files field')

        self.__cached_files_pat = (None, None)

    @classmethod
    def create(cls, files, copyright, license):
        """Create a new FilesParagraph from its required parts."""
def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField(
    'Files', from_str=_SpaceSeparated.from_str,
    to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

    Minimally, this kind of paragraph requires a 'License' field and has no
    'Files' field. It is used to give a short name to a license text, which
    can be referred to from the header or files paragraphs.
    """
def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("'License' field required'
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):

    """Returns a LicenseParagraph with the given license."
    
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.

license = deb822.RestrictedField('License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):

    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

    def __init__(self, data=None):
        """Initializer.

        :param parsed: A deb822.Deb822 object for underlying data. If None, a
            new one will be created.
        ""
        if data is None:
            data = deb822.Deb822()
            data['Format'] = _CURRENT_FORMAT

        if 'Format-Specification' in data:
warnings.warn('use of deprecated "Format-Specification" field;
   rewriting as "Format"')
data['Format'] = data['Format-Specification']
del data['Format-Specification']

super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError(
        'input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    '''Returns True iff the format is known.'''
    return self.format in _KNOWN_FORMATS

def current_format(self):
    '''Returns True iff the format is the current format.'''
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
License: GPL-3+

Files:
lib/debian/deprecation.py
Copyright: Copyright (C) Ben Finney <ben+debian@benfinney.id.au>
License: GPL-2+

Files:
examples/copyright/*
lib/debian/copyright.py
lib/debian/tests/test_copyright.py
Copyright: Copyright (C) 2014 Google, Inc.
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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
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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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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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+++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, and write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbdf) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bug fixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.
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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}.
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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Version 2, June 1991

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

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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 former contains code derived from the library, while the latter only works together with the library.

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

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

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

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.

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

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you. You must make sure that they, too, receive or can get the source
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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.

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

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

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

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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
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the 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 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.

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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.

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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.

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1.1207 modern-go-reflect2 1.0.1

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1.1224 argh 0.26.2

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1.1227 x-sync 0.0.0-20190423024810-112230192c58

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1.1228 go-cache 2.1.0+incompatible

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1.1230 slf4j-log4j 1.7.2

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Protocol Buffers for Go with Gadgets

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{"the name", "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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1.1239 fresh 0.5.2

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1.1240 strscan 1.0.0

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1.1246 zlib 1.2.5

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1.1248 mtools 4.0.18 2ubuntu1

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  * Added generation of field number constants.
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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

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1.1277 python-defaults 3.6.7 1~18.04

1.1278 utils 0.0.0-20191030222137-2b95a09bc58d

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:eff2bb5b6.

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 pistream 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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1.1284 protobuf 1.24.0

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre
  quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
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1.10

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1295 socks 2.6.2
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1.1296 x-crypto 0.0.0-20200510223506-06a226fb4e37

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1.1297 jetty-io 9.4.35.v20201120

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

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

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

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

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

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Oracle OpenJDK

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  * java.sun.security.ssl

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

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

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Apache

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.1298 mkdirp 0.5.4

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1.1315 x-text 0.3.6

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    "github.com/go-openapi/swag"
}

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

// LicenseReply struct
type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return ",", err
    }
    defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return ",", err
}

return string(data), nil
}
// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 */

cgo

package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {  
XMLNS string `xml:"xmlns,attr.omitempty"`  
XMLName xml.Name `xml:"LegalHold"`  
Status LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status   *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v\`, status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {

return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ";")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
    return &lh.Status, nil
}

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)

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want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL *string `json:"html_url",omitempty`
    Featured *bool `json:"featured",omitempty`
    Description *string `json:"description",omitempty`
    Category *string `json:"category",omitempty`
    Implementation *string `json:"implementation",omitempty`
    Required []string `json:"required",omitempty`
    Permitted []string `json:"permitted",omitempty`
    Forbidden []string `json:"forbidden",omitempty`
    Body     *string `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.1324 gorilla 1.8.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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/*
 * interface_backend_netcf.c: backend driver methods to handle physical
 * interface configuration using the netcf library.
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1.1332 apm-module-apmhttp 1.11.0
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### 1.1334 escalade 3.1.1

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1.1335 commons-dbcp 1.4

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1.1336 did-you-mean 1.2.0

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1.1337 debconf 1.5.66ubuntu1

1.1338 logr 0.2.0
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1.1339 python-debian 0.1.32
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#!/usr/bin/python

# vim: fileencoding=utf-8
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Usage:

    find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program
output less verbose.

import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = []
    parse_failures = []
    dump_failures = []

    total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append(
                (filename, e))
            continue
        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append(
                (filename, e))
        if not c.header.known_format():
            problems.setdefault((3, 'Unknown format'), []).append(  
                (filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(', '):
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)

if invalid_globs:
    problems.setdefault((4, 'Invalid glob'), []).append(  
        (filename, invalid_globs))
if globs_with_leading_dot_slash:
    problems.setdefault((5, 'Globs with leading ./'), []).append(  
        (filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
    problems.setdefault((6, 'Globs with trailing ,'), []).append(  
        (filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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"""Utilities for parsing and creating machine-readable debian/copyright files.
The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Start from the Coyright docstring for usage information.
"""
from __future__ import unicode_literals
import collections
import itertools
import io
import re
import warnings
from debian import deb822

Open Source Used In SMI 2021.01.0-Apr-2022 15320


_CURRENT_FORMAT = ('http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
')

_KNOWN_FORMATS = frozenset([
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
    '])

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
        print('Upstream name: ', header.upstream_name)
        lic = header.license
        if lic:
            print('Overall license: ', lic.synopsis)
        # You can also retrieve and set custom fields.
        header['My-Special-Field'] = 'Very special'

        # Find the license for a given file.
        paragraph = c.find_files_paragraph('debian/rules')
        if paragraph:
            print('License for debian/rules: ', paragraph.license)
# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
    NotMachineReadableError if `sequence` does not contain a
        machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()
    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
                p = FilesParagraph(p)
            elif 'License' in p:
                p = LicenseParagraph(p)
            else:
                warnings.warn('Non-header paragraph has neither "Files"'
                               ' nor "License" fields')
                self.__paragraphs.append(p)
            else:
                self.__header = Header()

    @property
    def header(self):
"""The file header paragraph."""

return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.

    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information

    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """"""Returns an iterator over the contained FilesParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """"""Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.

    """
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """"""Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph)."""

if not isinstance(paragraph, FilesParagraph):
    raise TypeError('paragraph must be a FilesParagraph instance')

last_i = -1
for i, p in enumerate(self.__paragraphs):
    if isinstance(p, FilesParagraph):
        last_i = i
self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object. The paragraph is inserted after any other paragraphs."
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file."

    If f is None, returns a unicode object. Otherwise, writes the contents to f, which must be a file-like object that is opened in text mode (i.e. that accepts unicode objects directly). It is thus up to the caller to arrange for the file to do any appropriate encoding.
    """
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
        return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '
' in s:
        raise ValueError('must be single line')
    return s
class _LineBased(object):

    """Namespace for conversion methods for line-based lists as tuples."""

    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple."""
        return tuple(v for v in
                     (line.strip() for line in (s or '').strip().splitlines())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        ""
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'n' in s:
                raise ValueError('values must not contain newlines')
            return s
        if len(l) == 1:
            return process_and_validate(l[0])
        tmp = ['']
        for s in l:
            tmp.append(' ' + process_and_validate(s))
        return '
'.join(tmp)

class _SpaceSeparated(object):

    """Namespace for conversion methods for space-separated lists as tuples."""

    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with space-separated elements stripped, as a tuple."""
        return tuple(v for v in
                     (s.strip().split())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        ""
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'n' in s:
                raise ValueError('values must not contain newlines')
            return s
        if len(l) == 1:
            return process_and_validate(l[0])
        tmp = ['']
        for s in l:
            tmp.append(' ' + process_and_validate(s))
        return '
'.join(tmp)
def from_str(s):
    """Returns the values in s as a tuple (empty if only whitespace).""
    return tuple(v for v in (s or "").split() if v)

@classmethod
def to_str(cls, seq):
    """Returns the sequence as a space-separated string (None if empty).""
    l = list(seq)
    if not l:
        return None
    tmp = []
    for s in l:
        if cls._has_space.search(s):
            raise ValueError('values must not contain whitespace')
        s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        tmp.append(s)
    return ' '.join(tmp)

# TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.'
    ""
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines.""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '.
            line = ' ' + line
        out_lines.append(line)
    return '
'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.""
Technically it can't be a perfect inverse, since format_multiline must replace all-whitespace lines with '. '. Specifically, this function:
- Does nothing to the first line
- Removes first character (which must be ')') from each proceeding line.
- Replaces any line that is '.' with an empty line.

```python
if s is None:
    return None
return \n'.join(parse_multiline_as_lines(s))
```

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    ""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines
```

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable."
    ""
    def __new__(cls, synopsis, text=' '):
        """Creates a new License object.

        :param synopsis: The short name of the license, or an expression giving
                         alternatives. (The first line of a License field.)
        :param text: The full text of the license, if any (may be None). The
                     lines should not be mangled for "deb822"-style wrapping - i.e. they
                     should not have whitespace prefixes or single '.' for empty lines.
        ""
        return super(License, cls).__new__(cls, synopsis=_single_line(synopsis), text=(text or ''))

    @classmethod
def from_str(cls, s):
if s is None:
    return None

lines = parse_multiline_as_lines(s)
if not lines:
    return cls('')
return cls(lines[0], text='
'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    \* and \?, respectively. A literal backslash is matched \\. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    ''''''
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('.')
            elif c == '\':
                if i < n:
                    c = glob[i]
                    i += 1
                else:
                    raise ValueError('single backslash not allowed at end')
            else:
                raise ValueError('single backslash not allowed at end')
            if c in r'\*?:
                buf.write(re.escape(c))
else:
raise ValueError(r'invalid escape sequence: \\%s' % c)

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

This kind of paragraph is used to specify the copyright and license for a
particular set of files in the package.
"""

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError("Files" field required')
    # For the other "required" fields, we just warn for now. Perhaps
    # these should be upgraded to exceptions (potentially protected by
    # a "strict" param).
    if 'Copyright' not in data:
        warnings.warn('Files paragraph missing Copyright field')
    if 'License' not in data:
        warnings.warn('Files paragraph missing License field')

    if not self.files:
        warnings.warn('Files paragraph has empty Files field')

    self.__cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

:parameter files: The list of file globs.
:parameter copyright: The copyright for the files (free-form text).
:parameter license: The Licence for the files.
"""
    p = cls(deb822.Deb822(), _internal_validate=False)
p.files = files
p.copyright = copyright
p.license = license
def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.
    Caches the result until files is set to a different value.
    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField('Files', from_str=_SpaceSeparated.from_str,
                                to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField('License', from_str=License.from_str, to_str=License.to_str,
                                   allow_none=False)

comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.
    Minimally, this kind of paragraph requires a 'License' field and has no 'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.
    """

    def __init__(self, data, _internal_validate=True):
        super(LicenseParagraph, self).__init__(data)
        if _internal_validate:
            if 'License' not in data:
                raise ValueError('"License" field required')
            if 'Files' in data:
                raise ValueError('input appears to be a Files paragraph')
@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.

    :param parsed: A deb822.Deb822 object for underlying data. If None, a
        new one will be created.
    """
    if data is None:
        data = deb822.Deb822()
        data['Format'] = _CURRENT_FORMAT
        if 'Format-Specification' in data:
            warnings.warn('use of deprecated "Format-Specification" field;
            rewriting as "Format"
            del data['Format-Specification']
        super(Header, self).__init__(data)

        fmt = self.format
if fmt is None:
    raise NotMachineReadableError('input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
    Copyright (C) 2006-2010 John Wright <john@johnwright.org>
    Copyright (C) 2008       Adeodato Sim <dato@net.com.org.es>
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1.1350 touch 3.1.0

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1.1351 consul 1.1.0

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1.1352 libwww-robotrules-perl 6.01-1
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NAME
WWW::RobotRules - database of robots.txt-derived permissions

SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
    my $url = "http://some.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
    my $url = "http://some.other.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}
DESCRIPTION

This module parses /robots.txt files as specified in "A Standard for
Webmasters can use the /robots.txt file to forbid conforming robots from
accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
/robots.txt files on any number of hosts.

The following methods are provided:

.rules = WWW::RobotRules->new($robot_name)
This is the constructor for WWW::RobotRules objects. The first
argument given to new() is the name of the robot.

.rules->parse($robot_txt_url, $content, $fresh_until)
The parse() method takes as arguments the URL that was used to
retrieve the /robots.txt file, and the contents of the file.

.rules->allowed($uri)
Returns TRUE if this robot is allowed to retrieve this URL.

.rules->agent($name)
Get/set the agent name. NOTE: Changing the agent name will clear the
robots.txt rules and expire times out of the cache.

ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this
is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank
lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a
line is ignored during parsing. This is used for comments. The following
<field-names> can be used:

User-Agent
The value of this field is the name of the robot the record is
describing access policy for. If more than one *User-Agent* field is
present the record describes an identical access policy for more than
one robot. At least one field needs to be present per record. If the
value is '*', the record describes the default access policy for any
robot that has not matched any of the other records.

The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

Disallow
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES
The following example "robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear
```

This example "robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:
```

This example indicates that no robots should visit this site further:

```
# go away
User-agent: *
Disallow: /
```

This is an example of a malformed robots.txt file.

```
# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
```
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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# Bender: "Well, I don't have anything else planned for today. Let's get drunk!"

=head1 NAME
WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS

use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{  
my $url = "http://some.place/robots.txt";
my $robots_txt = get $url;
$rules->parse($url, $robots_txt) if defined $robots_txt;
}

{  
my $url = "http://some.other.place/robots.txt";
my $robots_txt = get $url;
$rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

=head1 DESCRIPTION

This module parses F</robots.txt> files as specified in
"A Standard for Robot Exclusion", at
<http://www.robotstxt.org/wc/norobots.html>
Webmasters can use the F</robots.txt> file to forbid conforming
robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited.  The
same WWW::RobotRules object can be used for one or more parsed
F</robots.txt> files on any number of hosts.

The following methods are provided:

=over 4

=item $rules = WWW::RobotRules->new($robot_name)

This is the constructor for WWW::RobotRules objects.  The first
argument given to new() is the name of the robot.

=item $rules->parse($robot_txt_url, $content, $fresh_until)

The parse() method takes as arguments the URL that was used to
retrieve the F</robots.txt> file, and the contents of the file.

=item $rules->allowed($uri)

Returns TRUE if this robot is allowed to retrieve this URL.

=item $rules->agent([$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt
rules and expire times out of the cache.

=back
The format and semantics of the "/robots.txt" file are as follows
(this is an edited abstract of
<http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more
blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a
line is ignored during parsing. This is used for comments. The
following <field-names> can be used:

=item User-Agent

The value of this field is the name of the robot the record is
describing access policy for. If more than one I<User-Agent> field is
present the record describes an identical access policy for more than
one robot. At least one field needs to be present per record. If the
value is '*', the record describes the default access policy for any
robot that has not not matched any of the other records.

The I<User-Agent> fields must occur before the I<Disallow> fields. If a
record contains a I<User-Agent> field after a I<Disallow> field, that
constitutes a malformed record. This parser will assume that a blank
line should have been placed before that I<User-Agent> field, and will
break the record into two. All the fields before the I<User-Agent> field
will constitute a record, and the I<User-Agent> field will be the first
field in a new record.

=item Disallow

The value of this field specifies a partial URL that is not to be
visited. This can be a full path, or a partial path; any URL that
starts with this value will not be retrieved

Unrecognized records are ignored.

The following example "/robots.txt" file specifies that no robots
should visit any URL starting with "/cyberworld/map/" or "/tmp/":
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

=head1 SEE ALSO

L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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* /opt/cola/permits/1138400616_1614282214.96/0/libwww-robotrules-perl-6-01-orig-1-tar-gz/WWW-RobotRules-6.01/META.yml

1.1353 conntrack-tools
1.4.4+snapshot20161117 6ubuntu2
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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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1.1364 gonum-matrix v0.9.3

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@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
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1.1371 pysmi 0.3.4
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SNMP SMI compiler
The PySMI library and tools are designed to parse, verify and transform `SNMP SMI <https://en.wikipedia.org/wiki/Management_information_base>`_ MIB modules from their original ASN.1 form into JSON or `pysnmp <http://snmplabs.com/pysnmp/>`_ representation.

Documentation
-------------

Source code & Changelog
-----------------------

Project source code is hosted at `GitHub <https://github.com/etingof/pysmi>`_. Everyone is welcome to fork and contribute back!

We maintain the detailed `log of changes` to our software.

Download & Install
------------------

Changes
-------

License
-------

The SNMP SMI library software is distributed under 2-clause BSD License.
MIB files archive

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

The PySMI project maintains a collection of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can’t guarantee any degree of consistency or reliability when it comes to these MIB modules.

The *mibdump.py* tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

Contact
-------

In case of questions or troubles using SNMP SMI library, please open up an issue at GitHub or ask at Stack Overflow.

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SNMP MIB parser

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

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PySMI is a pure-Python implementation of SNMP SMI MIB parser.
This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and pysnmp modules can be generated from ASN.1 MIBs.

Features
-------
* Understands SMIv1, SMIv2 and de-facto SMI dialects
* Turns MIBs into pysnmp classes and JSON documents
* Maintains an index of MIB objects over many MIB modules
* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
* 100% Python, works with Python 2.4 up to Python 3.7

Rendered PySMI documentation can be found at [pysmi site](http://snmplabs.com/pysmi).

How to use PySMI
----------------

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still do that manually by invoking *mibdump.py* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump.py* tool like this:

```bash
$ mibdump.py --generate-mib-texts --destination-format json IF-MIB
```

Source MIB repositories: file:///usr/share/snmp/mibs, http://mibs.snmplabs.com/asn1/@mib@

Borrow missing/failed MIBs from: http://mibs.snmplabs.com/json/fulltexts/@mib@

Existing/compiled MIB locations:

Compiled MIBs destination directory: .

MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI, RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM

MIBs to compile: IF-MIB

Destination format: json

Parser grammar cache directory: not used

Also compile all relevant MIBs: yes

Rebuild MIBs regardless of age: yes

Do not create/update MIBs: no

Byte-compile Python modules: no (optimization level no)

Ignore compilation errors: no

Generate OID->MIB index: no

Generate texts in MIBs: yes

Keep original texts layout: no

Try various filenames while searching for MIB module: yes

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:
```
```

JSON document build from
would hold information such as:

```
{
    "ifMIB": {
        "name": "ifMIB",
        "oid": "1.3.6.1.2.1.31",
        "class": "moduleidentity",
        "revisions": [
            "2007-02-15 00:00",
            "1996-02-28 21:55",
            "1993-11-08 21:55"
        ],
    },
    "ifTestId": {
        "name": "ifTestId",
        "oid": "1.3.6.1.2.1.31.1.3.1.1",
        "nodetype": "column",
        "class": "objecttype",
        "syntax": {
            "type": "TestAndIncr",
            "class": "type"
        },
        "maxaccess": "read-write"
    }
    ...
}
```
In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](http://mibs.snmplabs.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files. For example, JSON index for [IP-MIB.json](http://mibs.snmplabs.com/json/asn1/IP-MIB), [TCP-MIB.json](http://mibs.snmplabs.com/json/asn1/TCP-MIB) and [UDP-MIB.json](http://mibs.snmplabs.com/json/asn1/UDP-MIB) modules would keep information like this:

```json
{
   "compliance": {
      "1.3.6.1.2.1.48.2.1.1": [ "IP-MIB" ],
      "1.3.6.1.2.1.49.2.1.1": [ "TCP-MIB" ],
      "1.3.6.1.2.1.50.2.1.1": [ "UDP-MIB" ]
   },
   "identity": {
      "1.3.6.1.2.1.48": [ "IP-MIB" ],
      "1.3.6.1.2.1.49": [ "TCP-MIB" ],
      "1.3.6.1.2.1.50": [ "UDP-MIB" ]
   },
   "oids": {
      "1.3.6.1.2.1.4": [ "IP-MIB" ],
      "1.3.6.1.2.1.5": [ "IP-MIB" ],
      "1.3.6.1.2.1.6": [ "TCP-MIB" ]
   }
}
```
With this example, *compliance* and *identity* keys point to
*MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids*
lister top-level OIDs branches defined in MIB modules. Full index
build over thousands of MIBs could be seen
[here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites
or local directories. You could configure any MIB source available to you (including

How to get PySMI
----------------

The pysmi package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pysmi/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pysmi).

You could `pip install pysmi` or download it from [PyPI](https://pypi.org/project/pysmi/).

If something does not work as expected,
[open an issue](https://github.com/etingof/pysmi/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask).

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1.1372 gjson 1.8.0

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1.1374 utils 0.0.0-20191114184206-e782cd3c129f

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```
...
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pkg/logproto/
pkg/loghttp/
pkg/logqlmodel/
pkg/util
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tools/
```
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```
## -*-makefile-*-
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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,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

%.s$(STATIC_O): $(sdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o$(STATIC_O): $(sdir)/%.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/:/g\n > $@; \n [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed s/($*)\.o/:/g\n > $@; \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,-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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1.1380 python3-idna 2.6-1

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Metadata-Version: 1.1
Name: idna
Version: 2.6
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
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 old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

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 2.6 or later, and Python 3.3 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.

.. code-block:: pycon

    # 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--knigsgsschen-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 2.6+.

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

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
The library can act as a drop-in replacement for the "encodings.idna" module.

---

```python
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2, 6):
        raise SystemExit("Sorry, Python 2.6 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 :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            '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/cola/permits/1114240575_1607457212.69/0/python-idna-2-6-orig-1-tar-gz/idna-2.6/setup.py

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1.1382 python-idna 2.6 1
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
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 */
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 * *
 * @return a boolean that says whether this content has been compacted for UPA
 */

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DOM Level 3 LS CR - Experimental.

Create a new `<code>LSParser</code>`. The newly constructed parser may then be configured by means of its `<code>DOMConfiguration</code>` object, and used to parse documents by means of its `<code>parse</code>` method.

@param mode The `<code>mode</code>` argument is either `<code>MODE_SYNCHRONOUS</code>` or `<code>MODE_ASYNCHRONOUS</code>`, if `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in synchronous mode, if it's `<code>MODE_ASYNCHRONOUS</code>` then the `<code>LSParser</code>` that is created will operate in asynchronous mode.

@param schemaType An absolute URI representing the type of the schema language used during the load of a `<code>Document</code>` using the newly created `<code>LSParser</code>`. Note that no lexical checking is done on the absolute URI. In order to create a `<code>LSParser</code>` for any kind of schema types (i.e. the `<code>LSParser</code>` will be free to use any schema found), use the value `<code>null</code>`.

@return The newly created `<code>LSParser</code>` object. This `<code>LSParser</code>` is either synchronous or asynchronous depending on the value of the `<code>mode</code>` argument.


- applications must use the value `<code>"http://www.w3.org/2001/XMLSchema"</code>`.

For XML DTD [ <a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a> ]

- applications must use the value `<code>"http://www.w3.org/TR/REC-xml"</code>.

Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

@end
* error-handler</a>" configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
*   NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
*   not supported.
*/

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jar/org/apache/xml/serialize/Serializer.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
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jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSIDCDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMAElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/FilePathToURI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/datatype/SerializedXMLGregorianCalendar.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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1.1391.1 Available under license:
This package contains a modified version of ca-bundle.crt:

test-certdata = ca-certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.1392 glob 7.1.7

1.1392.1 Available under license:

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package api

import (    "bytes"    "io/ioutil"    "os"    "path/filepath"    "regexp"    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved.)(//|#) Use of this source code is governed by a BSD-style (//|#) license that can be found in the LICENSE file. `)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
    })
}
if err != nil {
    return err
}

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}

if err != nil {
    t.Fatal(err)
}

---

1.1397 lzop 1.03-4

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<signature of Ty Coon>, 1 April 1989
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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.
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1.1412 pwauth 2.3.11-0.2

1.1413 kubernetes-component-base 0.18.4

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1.1416 netbase 5.4

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*******************
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*******************

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

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 https://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
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Mersenne Twister
---------------
The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
The `socket` module uses the functions `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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UUencode and UUdecode functions
-------------------------------

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

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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libffi
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zlib

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

cfuhash

-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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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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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.

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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 (brazil@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 Petersen(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 Detlef(s@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(acg@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.) Boost Software License - Version 1.0 - August 17th, 2003

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1.1439 gobject-introspection 1.56.1-1

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

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

@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS.c\) $< \"
| sed 's/\(.*\)\.o : /g' > $@; |
| -s $@ ] || rm -f $@'

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

## Versioned libraries rules

%.d.$(SO).$(SO_TARGET_VERSION_MAJOR): %.d.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.d: %.d.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(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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1.1454 python-setuptools 39.0.1

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.1470 ruby-net-telnet 0.1.1-2

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package api

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
}

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)/* (//|#) Use of this source code is governed by a BSD-style (//|#) license that can be found in the LICENSE file.
`
)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }

        if err != nil {
            return err
        }
    })

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
    return nil
}
}
if err != nil {
    t.Fatal(err)
}

---

**1.1473 msgp 1.1.5**

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# Contribtors to oauth2client / google-auth

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"
// List of features enabled by the license
Features []string "json:"features""
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
      return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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import (
    "encoding/json"
    
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Support for streaming Protocol Buffer messages for the Go language (golang).
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \%v", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != ""
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentBody:   bytes.NewReader(lhData),
    contentLength: int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    // Validate object name:
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", 

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
bucketName:       bucketName,
objectName:       objectName,
queryValues:      urlValues,
contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}
return &lh.Status, nil

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1484 google-go-cmp 0.5.2

1.1484.1 Available under license :

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

// Current version of the license.
// This member is required.
SourceVersion *string

} type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

} func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName:  "license-manager",
        OperationName:  "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // Status
    //
    // KeyFingerprint
    //
    // Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32
// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
    *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
    params = &CreateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
}
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsjson11_serializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsjson11_deserializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
  NodeId *string
}

type CheckoutLicenseOutput struct {

  // Checkout type.
  CheckoutType types.CheckoutType

  // Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeID *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...
  func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
  if params == nil {  
    params = &CheckoutBorrowLicenseInput{}  
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
  addOperationCheckoutBorrowLicenseMiddlewares)
  if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
    *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName:  "license-manager",
        OperationName:  "CheckoutBorrowLicense",
    }
}
package licensemanager

import {
  "context"
  aws middleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
  // *
  //  // Beneficiary
  //
  // * ProductSKU
  //
  // * KeyFingerprint
  //
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string
}
// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {
    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:       region,
        ServiceID:    ServiceID,
        SigningName:  "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesJSON(t, licenseJSON, license)
}
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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

1.1494 gstreamer 1.14.5-0ubuntu1~18.04.2
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1.1504 python-jsonpatch 1.19+really1.16-1fakesync1

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1.1513 jackson-dataformat-yaml 2.11.2
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1.1514 go.uber.org/atomi 1.5.1

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1.1515 gzip 1.6 5ubuntu1

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1.1516 github.com/inconshreveable/log15
0.0.0-20180818164646-67afb5ed74ec
1.1516.1 Available under license:
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1.1517 prometheus-client 0.1.1

1.1517.1 Available under license:
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: prometheus-client
Version: 0.1.1
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
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 :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: System :: Monitoring
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):
* /opt/cola/permits/1162107434_1620779314.98/0/prometheus-client-0-1-1-tar-gz/prometheus_client-0.1.1/prometheus_client.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: prometheus_client
Version: 0.1.1
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
1.1518 gophercloud 0.1.0

1.1518.1 Available under license:

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method  
// to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}
// CreateResult is the response from a Create operation. Call its Extract method 
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to 
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to 
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of 
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.
Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource.

However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as
implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:
Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self-contained.

Use the following `git` workflow to implement this method:

```
```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
```
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

=---------------------=

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `\[wip\]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.
### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
----------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It’s Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = ` 
{
}
`

// GetResult provides a Get result.
const GetResult = ` 
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = ` 
{
}
`
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`.

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`.

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)
w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)
// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}
// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)

}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```plaintext
* /
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to
want to see you put in hours of work only to learn that the feature is out of
scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and
responses: pagination, error handling, building request bodies, and parsing
response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than
other requests since a change to core will affect all of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to
request having it added. These kinds of issues are pretty easy to report
and resolve.

You should also provide a link to the actual service's Python code which
defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field
is part of an API extension rather than the base API itself. An example of this
can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749)
issue.

Here, a user reported fields missing in the `Get` function of
`networking/v2/networks`. The fields reported missing weren't missing at all,
they're just part of various Networking extensions located in
`networking/v2/extensions`.

### Adding a Missing API Call
If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status       string `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string `json:"tenant_id"`
    Shared       bool  `json:"shared"`
}
```

to look like

```go

```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

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

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github’s search box to search for the exact field you’re working on.
Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

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

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1519 libaprutil1-dbd-sqlite3 1.6.1-2

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1.1520 jersey-rx-client 2.25.1

1.1521 python-chardet 3.0.4-1
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1.1543 containerd 1.5.9

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procfs provides functions to retrieve system, kernel and process
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1.1544 tcl 8.6.11

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1.1552 charset-normalizer 2.0.10

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https://github.com/golang/protobuf

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1.1567 x-oauth2 0.0.0-20190604053449-0f29369cfe45

1.1567.1 Available under license:

```go
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}
```
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next     string `json:"next"`
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := r.(ResourcePage).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

**Step 5: Writing the Code**

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

**Types of Pull Requests**

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.
If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

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

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.
### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
```
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.
The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens,
a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your
Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{} 
```
// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.Tear downHTTP()
HandleListResourcesSuccessfully(t)

count := 0
    count++
    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }
actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {

return client.ServiceURL("resource", id)
}

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If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```go
package RESOURCE

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

/*
  package RESOURCE
  Step 7: Congratulations!
  =========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your
patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](./github/contributing.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.
* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1568 mitchellh-mapstructure 1.3.3

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1.1569 color-support 1.1.3

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1.1570 x-sys 0.0.0-20190507053917-2953c62de483

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1.1571 prometheus-alertmanager 0.20.0
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// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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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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concluded that weaker conditions might promote sharing better.

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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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$<(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$<$(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)"
@if $(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$<(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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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
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All Python releases are Open Source (see http://www.opensource.org for
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Mersenne Twister
---------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.
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Files: examples/*
include/share/grabbag/picture.h
include/test_libs_common/*
src/flac/*
src/metaflac/*
src/plugin_common/charset.c
src/plugin_common/charset.h
Files: include/share/grabbag.h
include/share/grabbag/cuesheet.h
include/share/grabbag/file.h
include/share/grabbag/replaygain.h
include/share/grabbag/seektable.h
include/share/replaygain_analysis.h
include/share/replaygain_synthesis.h
src/plugin_common/all.h
src/plugin_common/defs.h
src/plugin_common/dither.h
src/plugin_common/tags.c
src/plugin_common/tags.h
src/share/grabbag/cuesheet.c
src/share/grabbag/file.c
src/share/grabbag/replaygain.c
src/share/grabbag/seektable.c
src/share/replaygain_analysis/*
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Files: src/libFLAC/include/private/md5.h
src/libFLAC/md5.c
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   * This is the header file for the MD5 message-digest algorithm.
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   * written by Colin Plumb in 1993, no copyright is claimed.
   * This code is in the public domain; do with it what you wish.
   *
   * Equivalent code is available from RSA Data Security, Inc.
   * This code has been tested against that, and is equivalent,
   * except that you don't need to include two pages of legalese
   * with every copy.
   *
   * To compute the message digest of a chunk of bytes, declare an
   * MD5Context structure, pass it to MD5Init, call MD5Update as
   * needed on buffers full of bytes, and then call MD5Final, which
   * will fill a supplied 16-byte array with the digest.
   *
   * Changed so as no longer to depend on Colin Plumb's `usual.h'
   * header definitions; now uses stuff from dpkg's config.h
   * - Ian Jackson <ijackson@nyx.cs.du.edu>.
   * Still in the public domain.
   *
   * Josh Coalson: made some changes to integrate with libFLAC.
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func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

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//
// For more information: http://goo.gl/8us55a/licenseObject
type License struct {
  Name string `json:"name,omitempy"
  URL  string `json:"url,omitempy"
}
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1.1605 grpc-go 1.33.1

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That's all there is to it!

1.1627 go-runtime 1.5.1

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1.1628 ptyprocess 0.5.2 1
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1.1629 gax-go 2.0.5

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   *
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   *
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
  jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.1631 parse 0.0.0-20190718012654-fb15b899a751
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1.1632 forwarded 0.2.0

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1.1633 certifi 2021.10.8

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java

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<artifactId>hamcrest-junit</artifactId>
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Found in path(s):
* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/README.md
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexIteratorUnitTest.java

1.1641 libassuan 2.5.1 2
1.1641.1 Available under license:

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

-----

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

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

-----

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* java.sun.security.ssl

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

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OW2

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

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Apache

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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

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

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

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.
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1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.

The terms "object" and "array" come from the conventions of JavaScript.

JSON's design goals were for it to be minimal, portable, textual, and a subset of JavaScript.

1.1. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON
This document updates [RFC4627], which describes JSON and registers
the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of
the ECMAScript specification [ECMA-262], Section 15.12. JSON is also
described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic
elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very
wide use. This experience has revealed certain patterns, which,
while allowed by its specifications, have caused interoperability
problems.

Also, a small number of errata have been reported (see RFC Errata IDs
607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies
with other specifications of JSON, and highlight practices that can
lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six
structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous
specifications of JSON constrained a JSON text to be an object or an
array. Implementations that generate only objects or arrays where a
JSON text is called for will be interoperable in the sense that all
implementations will accept these as conforming JSON texts.

JSON-text = ws value ws

These are the six structural characters:

begin-array = ws %x5B ws ; key JSON-text
begin-object = ws %x7B ws ; { left curly bracket
end-array = ws %x5D ws ; ] right square bracket
end-object = ws %x7D ws ; } right curly bracket
name-separator = ws %x3A ws ; : colon
value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *(%x20 / ; Space
     %x09 / ; Horizontal tab
     %x0A / ; Line feed or New line
     %x0D ) ; Carriage return

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true

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4. Objects
An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

```
object = begin-object [ member *( value-separator member ) ]
         end-object

member = string name-separator value
```

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

```
array = begin-array [ value *( value-separator value ) ] end-array
```

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.
An exponent part begins with the letter E in upper or lower case, which may be followed by a plus or minus sign. The E and optional sign are followed by one or more digits.

Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

number = [ minus ] int [ frac ] [ exp ]

decimal-point = %x2E ; .

digit1-9 = %x31-39 ; 1-9

e = %x65 / %x45 ; e E

exp = e [ minus / plus ] 1*DIGIT

frac = decimal-point 1*DIGIT

int = zero / ( digit1-9 *DIGIT )

minus = %x2D ; -

plus = %x2B ; +

zero = %x30 ; 0

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and
are in the range \([-2^{53}+1, 2^{53}-1]\) are interoperable in the sense that implementations will agree exactly on their numeric values.

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as \("u005C".\)

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark

char = unescaped / escape (char)
```

8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and
String values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.

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9. Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.
11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON’s syntax is borrowed from JavaScript, it is possible to use that language’s "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language’s syntax.
This is a JSON object:

```
{
    "Image": {
        "Width": 800,
        "Height": 600,
        "Title": "View from 15th Floor",
        "Thumbnail": {
            "Url": "http://www.example.com/image/481989943",
            "Height": 125,
            "Width": 100
        },
        "Animated": false,
        "IDs": [116, 943, 234, 38793]
    }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
    {
        "precision": "zip",
        "Latitude": 37.7668,
        "Longitude": -122.3959,
        "Address": "",
        "City": "SAN FRANCISCO",
        "State": "CA",
        "Zip": "94107",
        "Country": "US"
    },
    {
        "precision": "zip",
        "Latitude": 37.371991,
        "Longitude": -122.026020,
        "Address": "",
        "City": "SUNNYVALE",
        "State": "CA",
        "Zip": "94085",
        "Country": "US"
    }
]
```
Here are three small JSON texts containing only values:

"Hello world!"

42

ture

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


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Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
- Clarified the absence of a requirement that values in an array be of the same JSON type.
- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".
o Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.

o Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.

o Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

o Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

o Updated and tidied the "IANA Considerations" section.

o Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

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o Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

o Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

o Changed "100" to 100 and added a boolean field, both in the first example.

o Added examples of JSON texts with simple values, neither objects nor arrays.
- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

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Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/ext/json/ext/generator/generator.c

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

# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse
  JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape
  sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad
  Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON
  has just the Ruby license that itself includes an explicit dual-licensing
  clause that allows covered software to be distributed under the terms of
  the Simplified BSD License instead for all ruby versions >= 1.9.3. This is
  however a GPL compatible license according to the Free Software Foundation.
  I changed these mentions to be consistent with the Ruby license setting in
  the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of
  `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing
  `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io>
  and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre
  Lafontune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with
  `-Wchar-subscripts` and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make
  serialize :some_attribute, `JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and
  `JSON::GenericObject`. It should not be possible to create additions unless
  explicitly requested by setting the create_additions argument to true or
using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to
be automatically deserialised, this has to be explicitly enabled by

`JSON::GenericObject.json_creatable = true`

as well.

* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155
  provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues#issue/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the
  extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo
  <tom.enebo@gmail.com>), should fix
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load(``)` return nil as well to make mysql text columns (default to `""`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in ` quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails` serialize method. Just use:
  
  serialize :value, JSON

* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
  
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add `quirks_mode` option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue
  https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz
  <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was
  reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23,
  always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This
  should reduce problems with `to_json` method definitions that only have one
  argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)
* Fixes crashes described in http://github.com/flori/json/issues/closed#issue/21 and
  http://github.com/flori/json/issues/closed#issue/23

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by
  electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with
  Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of
  json\_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory
  leak, which is fixed in this release.
* Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T\_FIXNUM
  being different on 32bit/64bit architectures.
## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified
directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Trigger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State[]` method which returns an attribute's value in order to
increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible
to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of
strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE,
and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion
functions are used to convert from all supported encodings. ASCII-8BIT
encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure
work in environments that don't provide iconv.
* Applied patch by okkez in order to fix Ruby Bug #1768:
* Finally got around to avoid the rather paranoid escaping of `?/` characters
in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could
cause catastrophic backtracking in one of the parser's regular expressions
in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this
problem.
* This release also uses a less strict ruby version requirement for the
creation of the mswin32 native gem.
## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type
check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `"{ ... }"` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\r\n`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and `pretty_generate` of unparse and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/ characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/CHANGES.md
No license file was found, but licenses were detected in source scan.

/* Portions of the Selector class are derived from Jack Slocum’s DomQuery,
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/data/prototype.js
No license file was found, but licenses were detected in source scan.

/*
* This code is copyrighted work by Daniel Luz <dev at mernen dot com>.
1.1655 commons-compress 1.21

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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 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.

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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.

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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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 medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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1.1659 github.com/eapache/channels 1.1.0

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1.1660 libfile-listing-perl 6.04-1

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=head1 NAME

File::Listing - parse directory listing

=head1 SYNOPSIS

use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir(\'ls -l\')) {
  ($name, $type, $size, $mtime, $mode) = @$_;
  next if $type ne 'f'; # plain file
  #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz");
$dir = parse_dir(\*LISTING, '+0000');

=head1 DESCRIPTION

This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from parse_dir() is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of [ $filename, $filetype, $filesize, $filetime, $filemode ]. The $filetype value is one of the letters 'f', 'd', 'l' or '?'. The $filetime value is the seconds since Jan 1, 1970. The $filemode is a bitmask like the mode returned by stat().
DESCRIPTION
This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

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Based on lsparse.pl (from Lee McLoughlin's ftp mirror package) and Net::FTP's parse_dir (Graham Barr).

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Found in path(s):
* /opt/cola/permits/1138401293_1614281814.28/0/libfile-listing-perl-6-04-orig-1-tar-gz/File-Listing-6.04/README
1.1661 loupe 2.3.4

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1.1662 watch-dog 0.8.3

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1.1663 btrees 1.0.1

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

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@end enumerate

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@end smallexample

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@end example

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<td>lib/interception/mach_override</td>
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package cloud

import (  
"bytes"
)
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
}
1.1691 x-sys 0.0.0-20200217220822-9197077df867

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1.1692 go-autorest-adal 0.8.1-0.20191028180845-3492b2aff503
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1.1693 x-term 0.0.0-20210615171337-6886f2dfbf5b

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1.1694 npm-audit-report 2.1.5

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1.1697 orderedmap 0.1.0

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1.1698 aec 1.0.0

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1.1699 go-autorest-adal 0.9.15

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1.1700 typedarray-to-buffer 3.1.5

1.1700.1 Available under license:

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1.1701 uuid 3.4.0

1.1702 dropwizard-servlets 1.3.29
1.1702.1 Available under license :
   Apache-2.0

1.1703 gophercloud 0.15.0
1.1703.1 Available under license :
   package RESOURCE

   import ( 
   "github.com/gophercloud/gophercloud"
   "github.com/gophercloud/gophercloud/pagination"
   )

   // RESOURCE represents...
   type Resource struct {
   }

   type commonResult struct {
   gophercloud.Result
   }

   // GetResult is the response from a Get operation. Call its Extract method
   // to interpret it as a RESOURCE.
   type GetResult struct {
   commonResult
   }

   // CreateResult is the response from a Create operation. Call its Extract method
   // to interpret it as a RESOURCE.
   type CreateResult struct {
   commonResult
   }
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
Links struct {
Next string `json:"next"`
Previous string `json:"previous"`
} `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
Resources []Resource `json:"resources"`
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}
// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.
### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).
What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.
Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be a lot of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
```
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

### Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.

3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `'[wip]'` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should
ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.
It's Never Personal

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

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (  
  "fmt"
  "net/http"
  "testing"

  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
  th "github.com/gophercloud/gophercloud/testhelper"
  "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
  {}
  
`  

// GetResult provides a Get result.
const GetResult = `  
  {}
  
`  

// CreateRequest provides the input to a Create request.
const CreateRequest = `  
  {}
  
`  

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `  
  `


// UpdateResult provides an update result.
const UpdateResult = `{}

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)
w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package testing
import {
"testing"
"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
"github.com/gophercloud/gophercloud/pagination"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
}
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
    
    }
Name: "resource two",

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
}
func listURL(client *gophercloud.ServiceClient) string {
    import "github.com/gophercloud/gophercloud"
    return "github.com/gophercloud/gophercloud"
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {

    // ToUpdateCreateMap formats a UpdateOpts into an update request.
    func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
        return gophercloud.BuildRequestBody(opts, "resource")
    }

    // Update modifies the attributes of a RESOURCE.
    func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
        b, err := opts.ToResourceUpdateMap()
        if err != nil {
            r.Err = err
            return
        }
        resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
            OkCodes: []int{200},
        })
        _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
        return
    }
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return "github.com/gophercloud/gophercloud"
}
return client.ServiceURL("resource")
}

cfunc getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

cfunc createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

cfunc deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

cfunc updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE

Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.
Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of
Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

- https://github.com/gophercloud/gophercloud/issues/310
- https://github.com/gophercloud/gophercloud/issues/613
- https://github.com/gophercloud/gophercloud/issues/729
- https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

- https://github.com/gophercloud/gophercloud/issues/620
- https://github.com/gophercloud/gophercloud/issues/621
- https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of
the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

=================================
If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

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However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.
* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

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

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1704 winston 3.3.3

1.1704.1 Available under license:

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1.1705 x-time-rate 0.0.0-20191024005414-555d28b269f0

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1.1706 public-suffix 20180223.1310 1

1.1706.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Public Suffix List
Upstream-Contact: Public Suffix List <contact@publicsuffix.org>
Source: https://publicsuffix.org/

Files: *
Copyright: 2010-2012 Daniel Veditz,
Ehsan Akhgari,
Gervase Markham,
Jason Duell,
Jothan Frakes,
Mitchell Field,
Mounir Lamouri,
Ruben Arakelyan,
Simone Carletti
License: MPL-2.0

Files: debian/*
Copyright: 2012 Daniel Kahn Gillmor <dkg@fifthhorseman.net>
License: MPL-2.0

Files: tests/test_psl.txt
Copyright: Dedicated to the Public Domain
License: CC0

License: MPL-2.0
Mozilla Public License Version 2.0

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1.1713 ip 1.1.5

1.1714 encodeurl 1.0.2
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1.1716 github.com/benbjohnson/clock 1.0.3
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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, 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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
Open Source Used In SMI 2021.01.0-Apr-2022 17875
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Opcode.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Translator.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/.CtNewNestedClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Executor.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/util/RuntimeSupport.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Handler.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Lex.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyOutputStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Viewer.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/LongMemberValue.java

1.1729 librdkafka 1.3.0
1.1729.1 Available under license:

For the files wingetopt.c wingetopt.h downloaded from https://github.com/alex85k/wingetopt

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/* crc32c.c -- compute CRC-32C using the Intel crc32 instruction
 * Copyright (C) 2013 Mark Adler
 * Version 1.1 1 Aug 2013 Mark Adler
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Mark Adler
madler@alumni.caltech.edu
*/

src/xxhash.[ch] src/lz4*.[ch]: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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1.1741 jansson 2.11-1

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1.1743 grpc-ecosystem-go-grpc-middleware

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package model

import {
    core "github.com/envoyproxy/go-control-plane/envoy/config/core/v3"
    rbacpb "github.com/envoyproxy/go-control-plane/envoy/config/rbac/v3"
    routepb "github.com/envoyproxy/go-control-plane/envoy/config/route/v3"
    matcherpb "github.com/envoyproxy/go-control-plane/envoy/type/matcher/v3"
}

func permissionAny() *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Any{
            Any: true,
        },
    }
}

func permissionAnd(permission []*rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_AndRules{
            AndRules: &rbacpb.Permission_Set{
                Rules: permission,  // must be len > 0
            },
        },
    }
}

func permissionOr(permission []*rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_OrRules{
            OrRules: &rbacpb.Permission_Set{
                Rules: permission,  // must be len > 0
            },
        },
    }
}

func permissionNot(permission *rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_NotRule{
            NotRule: permission,
        },
    }
}
func permissionDestinationIP(cidr *core.CidrRange) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_DestinationIp{
            DestinationIp: cidr,
        },
    }
}

func permissionDestinationPort(port uint32) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_DestinationPort{
            DestinationPort: port,
        },
    }
}

func permissionRequestedServerName(name *matcherpb.StringMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_RequestedServerName{
            RequestedServerName: name,
        },
    }
}

func permissionMetadata(metadata *matcherpb.MetadataMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Metadata{
            Metadata: metadata,
        },
    }
}

func permissionHeader(header *routepb.HeaderMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Header{
            Header: header,
        },
    }
}

func permissionPath(path *matcherpb.PathMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_UrlPath{
            UrlPath: path,
        },
    }
}
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goproperties - properties file decoder for Go

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apiVersion: release-notes/v2
kind: bug-fix
area: telemetry
issue:
- 29919
releaseNotes:
- |
  **Fixed** an issue where certificate provisioned by sidecar proxy cannot be used by Prometheus.

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1.1747 clockwork 0.2.2

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Clockwork - a clock process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby
process which sits alongside your web processes (Mongrel/Thin) and your worker
processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular
times or dates. For example, refreshing feeds on an hourly basis, or send
reminder emails on a nightly basis, or generating invoices once a month on the
1st.

Quickstart

--------
Create clock.rb:

```ruby
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

Use with queueing
---------------
The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory
footprint. If you’re using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```ruby
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.sendLater(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.sendLater(:send_reminders) }
```

Anatomy of a clock file
-----------------------

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL (“handler” and “every”) to define the handler for events, and then the events themselves.

The handler typically looks like this:

```ruby
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```ruby
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name ‘thing.do’ into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```ruby
every(5.minutes, 'thing.do') { Thing.sendLater(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```ruby
every(1.day, 'check.leap.year') do
```

Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end

In production
-------------

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

Design assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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1.1754 retry 0.12.0

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1.1767 libestr 0.1.10 2.1

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Douglas Gilbert
10th April 2012
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 A non-standard argument "bpt" (blocks per transfer) is added to control the maximum number of blocks in each transfer. The default value is 128. For example if "bs=512" and "bpt=32" then a maximum of 32 blocks (16 KiB
in this case) is transferred to or from the sg device in a single SCSI command. The actual size of the SCSI READ or WRITE command block can be selected with the "cdbsz" argument.

This version is designed for the linux kernel 2.4, 2.6 and 3 series.

*/

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

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

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `~/path`
- Remote file format is `<pod-name>:/path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `~/path`
- Remote file format is `<pod-name>:/path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.1791 utils 0.0.0-20201110183641-67b214c5f920

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## controller-manager-library

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
}
package vendorextensible

import json

// LicenseProps is a struct that holds information about a license.
// It can be used to represent the license details in a more structured way.
// The struct consists of a name and a URL, both of which can be optional.
// The UnmarshalJSON method is used to unmarshal JSON data into a LicenseProps struct.
// The MarshalJSON method is used to marshal a LicenseProps struct into JSON data.

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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# Notices for GardenerLoki output plugin

This plugin extends [Grafana/Loki](https://github.com/grafana/loki) [fluent-bit output plugin v1.6.0](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) which aims to forward log messages from fluent-bit to Loki. It is maintained by SAP.
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## Modifications

After copying the original plugin from [Grafana/Loki](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) the files, which was in one single directory, was splitted to different packages. Then a controller package was added. The controller use shared informer to watch for namespaces and process the CREATE, UPDATE, DELETE Events. The `loki.go` file was modified to implement a function for storing the new controller and to search for the dynamic host path in the currently processing log entry. The `config.go` was modified to parse additional properties needed for the new functionality. `loki.go` was split to `loki.go` and `utils.go` to separate methods from helper functions. `out_loki.go` was modified to initialize cluster kubernetes client and make a shared informer which will be passed to each controller.

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cdl

wallclockbuilder

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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procs provides functions to retrieve system, kernel and process
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1.1812 global-dirs 3.0.0

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1.1815 cobra 1.2.1

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""Types used by cobra, used by mypy

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"

from typing import Any, Dict

JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]

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""Utility for batch publishing.

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FIXME: Should be renamed
"

import json
def computeEventTimeDeltas(events: str) -> list:
    lines = events.splitlines()
    N = len(lines)
    assert N > 0, 'event list should not be empty'

    events = [json.loads(line) for line in lines]

    deltas = []
    for i in range(1, N):
        previousTs = events[i - 1]['timestamp']
        currentTs = events[i]['timestamp']
        delta = currentTs - previousTs

        deltas.append((lines[i - 1], delta))

    deltas.append((lines[N-1], 0))

    return deltas

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/publish.py
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"""Publish jobs gets enqueued into a multi_publisher, which publish them
to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620
"""

import asyncio
class PipelinedPublisher():
    def __init__(self, redis, batchSize=None):
        self.redis = redis
        self.queue = asyncio.Queue()
        self.batchSize = batchSize or 100
        self.lock = asyncio.Lock()
        self.xaddMaxLength = 1000

        async def publishAll(self):
            pipe = self.redis.pipeline()
async with self.lock:
    while True:
        try:
            job = self.queue.get_nowait()
        except asyncio.QueueEmpty:
            break
        else:
            self.publish(pipe, job)
            self.queue.task_done()

    await pipe.execute()

def enqueue(self, job):
    self.queue.put_nowait(job)

def publish(self, pipe, job):
    appkey, channel, data = job
    appChannel = '{}::{}'.format(appkey, channel)
    pipe.xadd(appChannel, {'json': data},
              max_len=self.xaddMaxLength, exact_len=False)

async def publishNow(self, job):
    async with self.lock:
        pipe = self.redis.pipeline()
        self.publish(pipe, job)
        await pipe.execute()

async def push(self, job, batchPublish=False):
    if not batchPublish:
        await self.publishNow(job)
        return

    self.enqueue(job)
    if self.queue.qsize() >= self.batchSize:
        await self.publishAll()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publisher.py
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"""Cobra main driver.
Calls into sub commands like git.

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"""
from pkgutil import walk_packages

import click
import coloredlogs

coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    """
    ___      _
   / __
   | / _
   | | | |
   \|___/\|
      \/_

    Cobra is a realtime messaging server using Python3, WebSockets and Redis.
    """
    for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.'):  
        module = __import__(module_name, globals(), locals(), ['__name__'])
        cmd = getattr(module, module_name.rsplit('.', 1)[-1])
        if isinstance(cmd, click.Command):
            main.add_command(cmd)

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/__init__.py
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    """Tools used when running as superuser (which we should almost never do)

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    """

    import os
    import sys

    import click

    def preventRootUsage():
        """Make sure a root user cannot run this command"

        if os.geteuid() == 0:
            msg = 'Cobra cannot be run as root / sudo. Exiting'

    """
```python
click.secho(msg, fg='red')
sys.exit(1)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/common/superuser.py
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"""Setup cobra

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""

import click

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage

@click.command()
def init():
    """Setup cobra
    ""
    preventRootUsage()

    path = getDefaultAppsConfigPath()
    appsConfig = AppConfig(path)
    appsConfig.generateDefaultConfig()

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Metadata-Version: 2.1
Name: cobras
Version: 1.2.1
Summary: A realtime messaging server using WebSockets and Redis.
Home-page: https://github.com/machinezone/cobra
Author: Benjamin Sergeant
Author-email: bsergean@gmail.com
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Description: # General

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub. It was presented in great
details during [RedisConf 2019](https://events.redislabs.com/redis-conf/redis-conf-2019/).

* [slides](https://bsergean.github.io/redis_conf_2019/slides.html)
* [youtube](https://www.youtube.com/watch?v=o8CC8qYfRQE&t=147s)
```
Cobra has been used in production receiving heavy traffic for about a year. Since it was written in Python it was named after a snake as an homage to a great programming language.

# News

Cobra is actively being developed, check out the [changelog](CHANGELOG.md) to know what's cooking.

# Installation

## With pip

```
pip install cobras
```

## With docker

```
docker pull bsergean/cobra
```

## For development

```
git clone <url>
cd cobra
python3 -m venv venv
source venv/bin/activate
make dev
make test
```

# Usage

```
$cobra
```

Usage: cobra [OPTIONS] COMMAND [ARGS]...

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub.

Options:

--version  Show the version and exit.
--help     Show this message and exit.

Commands:

admin  Run admin commands.
health  Health check
init        Setup cobra
monitor     Monitor cobra
publish     Publish to a channel
run         Run the cobra server
redis_subscribe Subscribe to a channel (with redis)
subscribe   Subscribe to a channel
secret      Generate secrets used for authentication...

To run the server use `cobra run`. You can run a health-check against the server with `cobra health`.

cobra health --url 'ws://jeanserge.com/v2?appkey=_health' --secret A5a3BdEfb6Df5A5FcadE7F9Dd7F1E -
-role health

# Setup

To run in production you will need a redis (version > 5) instance. Here are environment variables that you will
likely want to tweak, to connect to 2 redis instances (for scalability), and to bind on 0.0.0.0 so that the internet can see
your instance.

- name: COBRA_HOST
  value: 0.0.0.0
- name: COBRA_REDIS_URLS
  value: redis://redis1;redis://redis2

# Thank you

There would be no cobra without some other amazing open-source projects and tech. Here are 3 very
remarkable ones.

- [Python](https://www.python.org/) (and [asyncio](https://realpython.com/async-io-python/), one of the killer
  python3 feature !)
- [Redis](https://redis.io/), the swiss army knife of the internet which provide a very scalable publish/subscribe
  feature to dispatch messages while retaining them and allowing lookups of old messages (see [Redis Streams]

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

Open Source Used In SMI 2021.01.0-Apr-2022 18968
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"Handle credential files

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import os

from cobras.common.apps_config import AppConfigs, getDefaultAppsConfigPath
def createCredentials(role, secret):
    return {'role': role, 'secret': secret}

def getDefaultRoleForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppsConfig(path)
    return appsConfig.getDefaultRoleForApp(app)

def getDefaultSecretForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppsConfig(path)
    return appsConfig.getDefaultSecretForApp(app)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/credentials.py
No license file was found, but licenses were detected in source scan.

"""Subscribe to a channel

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""

import click
import uvloop

from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle
from cobras.server.redis_connections import RedisConnections
from cobras.server.redis_subscriber import (RedisSubscriberMessageHandlerClass, runSubscriber)

class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
    def __init__(self, obj):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)

    def log(self, msg):
        print(msg)

    async def on_init(self, redisConnection):
        pass

    async def handleMsg(self, msg: str, position: str,
payloadSize: int) -> bool:
    self.cnt += 1
    self.cntPerSec += 1

    if self.throttle.exceedRate():
        return True

    print(f"#messages {self.cnt} msg/s {self.cntPerSec}"")
    self.cntPerSec = 0

    return True

@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
@click.option('--position')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
    """Subscribe to a channel

    cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar  # noqa

    cobra subscribe --redis_urls redis://redis:6379 --channel foo --appkey bar
    [From a bench container]

    cobra subscribe --redis_urls 'redis://localhost:7001;redis://localhost:7002' --channel foo --appkey bar  # noqa
    ""

    preventRootUsage()
    uvloop.install()

    appChannel = '{}::{}'.format(appkey, channel)
    redisConnections = RedisConnections(redis_urls, redis_password)
    runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/redis_subscribe.py
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Found in path(s):
Monitor cobra

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import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
@click.option('--system', is_flag=True)
def monitor(url, role, secret, raw, role_filter, hide_nodes, hide_roles, subscribers, system):
    """Monitor cobra"
    
    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)
    runMonitor(url, credentials, raw, role_filter,
                   not hide_nodes, not hide_roles, subscribers, system)

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py

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

    """Subscribe to a channel"""
import asyncio
import json
import click
import uvloop

from cobras.client.client import subscribeClient
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp, getDefaultSecretForApp)
from cobras.common.apps_config import PUBSUB_APPKEY
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}

class MessageHandlerClass:
    def __init__(self, websockets, args):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)
        self.verbose = args['verbose']

    async def on_init(self):
        pass

    async def handleMsg(self, msg: str) -> bool:
        self.cnt += 1
        self.cntPerSec += 1
        if self.verbose >= 1:
            data = json.loads(msg)
            body = data['body']
            message = body['messages'][0]
            position = body['position']
            print(f'{message} at position {position}')
        if self.throttle.exceedRate():
            return True
        print(f'#{self.cnt} messages/s {self.cntPerSec} msg/s')
        self.cntPerSec = 0
        return True
@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
    '''Subscribe to a channel
    '''

    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(
        subscribeClient(url, credentials, channel, position,
            stream_sql, MessageHandlerClass,
            {'verbose': verbose}))

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/subscribe.py
    No license file was found, but licenses were detected in source scan.

    '''Small class to record data attached to a connection
    FIXME: use this to enforce publish+subscribe permissions.
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    '''

    import uuid

class ConnectionState:
    def __init__(self, appkey):
        self.appkey = appkey

        self.connection_id = uuid.uuid4().hex[:8]
        self.subscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []
self.nonce = None
self.error = 'na'

self.path = f'/tmp/log_{self.connection_id}''
self.fileLogging = False

def log(self, msg):
    log = f'[{self.connection_id}::{self.role}] {msg}''
    print(log)

    if self.fileLogging:
        with open(self.path, 'a') as f:
            f.write(log + '
')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/connection_state.py
No license file was found, but licenses were detected in source scan.

""Compute our version number

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""

import pkg_resources

from cobras.common.memoize import memoize

def getVersion():
    """Get our own version using pkg_resources""

    return pkg_resources.get_distribution("cobras").version

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/version.py
No license file was found, but licenses were detected in source scan.

""Capture memory usage

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""

import os

import psutil

from cobras.common.memoize import memoize
@memoize
def getContainerMemoryLimit():
    """In bytes""
    path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
    if not os.path.exists(path):
        return psutil.virtual_memory().total
    else:
        with open(path) as f:
            mem = f.read()
        return int(mem)

def getProcessUsedMemory():
    p = psutil.Process()
    return p.memory_info().rss

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1/cobras-common/memory_usage.py
No license file was found, but licenses were detected in source scan.

"""Memoization decorator for functions taking one or more arguments."

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"""

def memoize(f):
    """Memoization decorator for functions taking one or more arguments."""

class Memodict(dict):
    """Helper class derived from dict"

def __init__(self, f):
    """Constructor"

    dict.__init__(self)
    self.f = f

    def __call__(self, *args):
        """Call function"

        return self[args]

    def __missing__(self, key):
"Missing method"

```python
ret = self[key] = self.f(*key)
return ret
```

```python
return Memodict(f)
```

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-1.2.1/cobras/common/memoize.py

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

"Generate secrets used for authentication

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"

```python
import click
from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage

@click.command()
def secret():
    ""
    Generate secrets used for authentication
    
    cobra secret
    ""
    preventRootUsage()
    secret = genSecret()
    print(secret)
```

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-1.2.1/cobras/runner/secret.py

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"djb2 hash (unused)

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"

```python
def djb2Hash(data):
    """Return a 32 bits digest"""
```
hash = 5381
for x in data:
    hash = ((hash << 5) + hash) + ord(x)
return hash & 0xFFFFFFFF

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/djb2_hash.py
No license file was found, but licenses were detected in source scan.

""Bavarde main driver.
Calls into sub commands like git.

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""
from __future__ import absolute_import

import platform
import os
import sys
from setuptools import find_packages, setup

if sys.version_info[:2] < (3, 7):
    print('Error: Cobra requires Python 3.7')
    sys.exit(1)

ROOT = os.path.realpath(os.path.join(os.path.dirname(__file__)))

with open(os.path.join(ROOT, 'DOCKER_VERSION')) as f:
    VERSION = f.read().strip()

dev_requires = [
    'flake8',
    'isort',
    'honcho',
    'mypy',
    'aiojobs==0.1.0',
    'twine'
]

tests_require = [
    'pytest',
    'pytest-cov',
    'pytest-xdist',
    'coverage'
]

with open('requirements.txt') as f:
    install_requires = f.read().splitlines()

setup(
    name='cobras',
    version=VERSION,
    author='Benjamin Sergeant',
    author_email='bsergean@gmail.com',
    url='https://github.com/machinezone/cobra',
    description='A realtime messaging server using WebSockets and Redis.',
    long_description=open(os.path.join(ROOT, 'README.md')).read(),
    long_description_content_type='text/markdown',
    packages=find_packages(exclude=['tests']),
    zip_safe=False,
    install_requires=install_requires,
extras_require={
    'tests': tests_require,
    'dev': dev_requires
},
license='BSD 3',
include_package_data=True,
entry_points={
    'console_scripts': [
        'cobra = cobras.runner:main',
        'bavarde = cobras.bavarde.runner:main'
    ],
},
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 :: 3',
    'Programming Language :: Python :: 3.7',
],
)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/setup.py
No license file was found, but licenses were detected in source scan.

"""Publish to a channel

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"

import asyncio
import functools
import json
import click
import uvloop

from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}''
async def clientCallback(websocket, **args):
    method = args['method']
    params = args.get('params')
    params = json.loads(params)

    pdu = {
        "action": "rpc/admin",
        "id": 1,
        "body": {
            "method": method,
            "params": params
        }
    }

    await websocket.send(json.dumps(pdu))

    response = await websocket.recv()
    print(response)

async def start(url, credentials, verbose, method, params):
    callback = functools.partial(clientCallback,
                                  verbose=verbose,
                                  method=method,
                                  params=params)

    task = asyncio.create_task(client(url, credentials, callback))
    await task

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
    """Admin

    \
    cobra admin --method toggle_file_logging --params '{"connection_id": "."}'
    """

    preventRootUsage()
uvloop.install()
credentials = createCredentials(role, secret)

asyncio.get_event_loop().run_until_complete(start(url, credentials,
    verbose, method, params))

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
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"''Class to used to throttle function calls, so that something isn't called too often

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''"

from datetime import datetime, timedelta

class Throttle(object):
    def __init__(self,
        seconds: int = 1,
        minutes: int = 0,
        hours: int = 0) -> None:
        self.throttle_period = timedelta(
            seconds=seconds, minutes=minutes, hours=hours
        )
        self.time_of_last_call = datetime.min

def exceedRate(self) -> bool:
    now = datetime.now()
    time_since_last_call = now - self.time_of_last_call

    if time_since_last_call > self.throttle_period:
        self.time_of_last_call = now
        return False
    else:
        return True

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
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"''Bot

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''"
import click

from cobras.bavarde.bot.bot import runBot

@click.command()
def bot():
    """Bot
    ""

    runBot()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
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"""Health check.

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Subscribe to a channel, publish and make sure a message is received
""

import sys
import urllib.request

import click
import uvloop

from cobras.client.credentials import (getDefaultRoleForApp,
                                       getDefaultSecretForApp)
from cobras.client.health_check import (getDefaultHealthCheckChannel,
                                        getDefaultHealthCheckHttpUrl,
                                        getDefaultHealthCheckUrl, healthCheck)
from cobras.common.superuser import preventRootUsage

@click.command()
def health(url, http_url, http, role, secret, channel):
    """Health check

    cobra health --http

    """
```python

cobra health --http --http_url 'http://127.0.0.1:8765/health/'

```

```
preventRootUsage()
uvloop.install()

if http:
    print('url:', http_url)
    with urllib.request.urlopen(http_url) as response:
        html = response.read()
        print(html.decode('utf8'), end='')
else:
    try:
        healthCheck(url, role, secret, channel)
    except ValueError as e:
        click.secho(f'System is unhealthy !!: {e}', fg='red')
        sys.exit(1)

    click.secho('System is healthy', fg='green')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/health.py
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"""Run the cobra frontend

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```

import os

import click

import sentry_sdk
import uvloop

from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner

@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
              help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
              default='redis://localhost;redis://localhost')
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
```
```python
@cli
@cli.option('--apps_config_path', envvar='COBRA_APPS_CONFIG', default=getDefaultAppsConfigPath())
@cli.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@cli.option('--prod', envvar='COBRA_PROD', is_flag=True)
@cli.option('--plugins', envvar='COBRA_PLUGINS')
@cli.option('--debug_memory', envvar='COBRA_DEBUG_MEMORY', is_flag=True)
@cli.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@cli.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@cli.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@cli.option('--max_subscriptions', envvar='COBRA_MAX_SUBSCRIPTIONS', default=-1)
@cli.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT', default=5 * 60, help='idle connections kicked out after X seconds')
def run(host, port, redis_urls, redis_password, apps_config_path, verbose, debug_memory, plugins, sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
    """Run the cobra server"""
    
    # Run the cobra server
    cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002'
    
    # env COBRA_REDIS_PASSWORD=foobared cobra run
    if prod:
        os.environ['COBRA_PROD'] = '1'

    preventRootUsage()
uvloop.install()

    if sentry and sentry_url:
        sentry_sdk.init(sentry_url)

    runner = AppRunner(host, port, redis_urls, redis_password, apps_config_path, verbose, debug_memory, plugins, not no_stats, max_subscriptions, idle_timeout)
    runner.run()

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/run.py

1.1816 pynacl 1.5.0
```
1.1816.1 Available under license:
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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1.1817 influxdata-toml 0.0.0-20190415235208-270119a8ce65

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1.1818 flat 5.0.2

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1.1819 libwrap 7.6.q-27

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1.1821 go-cos 0.13.0

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1.1822 jquery 3.2.1-1
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1.1823 evanphx-json-patch

4.12.0+incompatible

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1.1824 mattes-migrate v3.0.1

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1.1825 kubernetes-api 0.20.1

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            {
                "key": "mit",
                "name": "MIT",
                "url": "https://api.github.com/licenses/mit"
            }
        ]
    })
    
    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key: String("mit"),
        Name: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    })
}
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
}

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
client *Client

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`

    String() string {
        return Stringify(l)
    }
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    } // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.1826 jetty-servlets 9.4.16.v20190411

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.1827 hashicorp-serf 0.9.5

1.1827.1 Available under license:

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29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Lerens <lerens@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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package github

import (  
    "fmt"  
    "net/http"  
    "reflect"  
    "testing"  
)

func TestLicensesService_List(t *testing.T) {  
    setup()  
    defer teardown()  

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {  
        testMethod(t, r, "GET")  
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)  
        fmt.Fprint(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)  
    })

    licenses, _, err := client.Licenses.List()  
    if err != nil {  
        t.Errorf("Licenses.List returned error: %v", err)  
    }
want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
  }}
if !reflect.DeepEqual(licenses, want) {
  t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `{"key":"mit","name":"MIT"}`)
  })

  license, _, err := client.Licenses.Get("mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }

  want := &License{Key: String("mit"), Name: String("MIT")}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
  _, _, err := client.Licenses.Get("%")
  testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.
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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
}
// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.1843 jigit 1.20-2ubuntu2

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1.1845 goprotobuf 1.4.3
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1.1846 python-certifi 2018.1.18 2
This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: certifi
Source: https://github.com/asweigart/certifi

Files: *
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1.1848 google-api-go-client 0.59.0

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1.1849 importlib-resources 5.4.0

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1.1850 rubygems-integration 1.11

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1.1851 wheel 0.37.0

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1.1852 rogpeppe-go-internal 1.6.1

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1.1854 python-pam libpam-modules_1.1.8-3.6ubuntu2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    return PAM_SUCCESS;
+}
rc = pam_get_item(pamh, PAM_USER, &user);
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '0') {
    PAM_MODUTIL_DEF_PRIVS(privs);

    /* Get the password entry */
pwd = pam_modutil_getpwnam (pamh, user);
    if (pwd != NULL) {
        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
            pam_syslog(pamh, LOG_ERR,
                "Unable to change UID to %d temporarily\n", pwd->pw_uid);
            retval = PAM_SESSION_ERR;
            goto finished;
        }

        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
            goto finished;
        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
            goto finished;

        if (stat(flag, &s) != 0)
            display_file(pamh, "/etc/legal");
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
            S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }

    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
            "Unable to change UID back to %d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
}

+finished:
if (pam_modutil_regain_priv(pamh, &privs)) {
    pam_syslog(pamh, LOG_ERR,
        "Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
+
    +_pam_drop(flag);
    +_pam_drop(dir);
+
}
+} return retval;
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
/* Display the updated motd */
  display_file(pamh, motd_path);

+/* Display the legal disclaimer only if necessary */
+  retval = display_legal(pamh);
+
+  return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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* /opt/cola/permits/1128636748_1611969986.0/0/golang-gosqlite-dev-0-0-hg20130601-orig-targz/gosqlite/sqlite3/driver.go

1.1856 psmisc 23.1-1ubuntu0.1
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1.1867 libteam5 1.26-1

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1.1893 jdk-zulu 8.60.0.21-1
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1.1894 pyasn1 0.4.2

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ASN.1 library for Python

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

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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()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321

>>> 

```

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 02 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
>>> encode(record)  
{'id': 123, 'room': 321, 'house': 0}
```

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 [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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ASN.1 library for Python
========================

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Abstract Syntax Notation One (`ASN.1`<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) 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 if 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 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 or 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::
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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.

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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`_ by Olivier Dubuisson
* `ASN.1 Complete`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards`_  

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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The Independent JPEG Group's JPEG software
README for release 6b of 27-Mar-1998

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

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

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.
The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.
These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of
REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap; as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.
You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

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

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


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

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

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

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

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
This package was debianised by Steve McIntyre
<stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001.
The maintainership was transfered in August 2003 to Andreas Barth
<aba@not.so.argh.org>, first as cooperative maintainership and
sponsored by Steve.

Packaging and keeping the package current is not simple, for details see
README.Debian. We consider http://netpbm.alioth.debian.org/ the
technical upstream, and this release can be exported out of alioth by
cvs -z3 -d:pserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export \
-r debian-9-25-2 netpbm

Copyright:
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Netpbm has a very complicated licensing setup, as it is a collection
of hundreds of small utility programs, each with an individual
copyright/license. From inspection of the source and documentation in
the package, I believe the following programs are DFSG-free. They have
a variety of licenses, which I have summarised below for convenience.

A: The most common netpbm license - clearly the original from Jef Poskanzer:

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
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implied warranty.

The core libp[gbnp]m library code all also seems to follow this license.

B: The standard BSD license. See /usr/share/common-licenses/BSD

C: GNU General Public License v2. See /usr/share/common-licenses/GPL.

D: The Independent JPEG Group license:

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conditions:
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unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group”.
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

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

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Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
asciitopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptoppm)
brushotopbm: (A) 1988 Jef Poskanzer
cmuwmtopbm: (A) 1989 Jef Poskanzer
eyuvtoppm: (B) 1995 The Regents of the University of California
pbmtolj: (A) 1988 Jef Poskanzer, Michael Haberler
pbmtomacp: (A) 1988 Douwe vand der Schaaf
pbmtomda: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
pbmtomgr: (A) 1989 Jef Poskanzer
pbmtonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhisen <tim.ruehen@openmediasystem.de>
pbmtopgm: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer
pbmtoxbm: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-kalsruhe.de>
pbmtoptx: (A) 1988 Jef Poskanzer
pbmtox10bm: (A) 1988 Jef Poskanzer
pcxtoppm: (A) 1990 Michael Davidson
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmdcat: (A) 1990 John Walker <kelvin@autodesk.com>
pngtopnm: (A) 1991 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Jef Poskanzer
pgmramp: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pngtext: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgtos: (A) 1991 Jef Poskanzer
pgmtolisp: (A) 1991 Jef Poskanzer
pgmtoxbm: (A) 1989 Jef Poskanzer
pgmtozinc: (A) 1989 Jef Poskanzer
pgmtozbm: (A) 1988 Jef Poskanzer
pgmupc: (A) 1988 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap: (A) 1989,1991 Jef Poskanzer
pnmcomp: (A) 1992 Bryan Henderson
pnmdeep: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcut: (A) 1989 Jef Poskanzer
pnmdepth: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989 Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmmontage: (A) 2000 Ben Olmstead
pnmfile: (A) 1991 Jef Poskanzer
pnmhisteq: (H) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnminvert: (A) 1989 Jef Poskanzer
pnmmargin: (A) 1991 Jef Poskanzer
pnmindex: (A) 1991 Jef Poskanzer
pnmnlfilt: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pnmnorm: (A) 1989,1991 Jef Poskanzer (as pgmnorm)
       (A) Michael Mauldin (fbnorm-filter in "Fuzzy Pixmap")
       (A) Wilson H. Bent, Jr. (whb@usc.edu) (as ppmnorm)
       (A) 2002 Bryan Henderson
pnmpad: (A) 1989 Jef Poskanzer
       (A) 1990 Angus Duggan
       (A) 2002 Martin van Beilen
pnmpaste: (A) 1989 Jef Poskanzer
pnmquant: (H1) 2002 Bryan Henderson
pnmremap: (A) 1989,1991 Jef Poskanzer (as pnmquant)
       (A) 2001 Bryan Henderson
pnmrotate: (A) 1989-1991 Jef Poskanzer
pnmscale: (A) 1989-1991 Jef Poskanzer
pnmscalefixed: (A) 1989-1991 Jef Poskanzer
pnmshrink: (A) 1989-1991 Jef Poskanzer
pnmsmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile: (A) 1989 Jef Poskanzer
pnmtoascii: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofiasco: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtofits: (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtojpeg: (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtojpeg: (D) 1991-2000 Ian Goldberg, Bill Janssen
pnmtojpeg: (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtojpeg: (A) 1991 Jef Poskanzer
pnmtojpeg: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaij.com>
pnmtojpeg: (A) 1989 Jef Poskanzer
pnmtojpeg: (A) 1989-1991 Jef Poskanzer
pnmtojpeg: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtojpeg: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtojpeg: (A) 1991 Marvin Landis
pnmtojpeg: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtojpeg: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtojpeg: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmcolors (H1) 2001 Bryan Henderson
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmflash: (A) 1993 Frank Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
ppmlabel: (A) 1989 Jef Poskanzer
ppmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmpat: (A) 1989-1991 Jef Poskanzer
ppmqvga: (A) 1993-1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
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ppmtopcg: (B) 1994 Teemu Hukkanen <tjhukkan@iki.fi>
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[ pictoppm: (A) 1989-1993  George Phillips <phillips@cs.ubc.ca> [security]]
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Unisys owns a patent on LZW compression, which is used by ppmtogif, and maybe on LZW decompression, which is used by giftoppnm. IBM also owns a patent that may cover the GIF tools. Unisys offers a license of the patent for trivial use for $5000. Its patent expires in 2003. Neither company has ever enforced the patent against trivial users of it. <http://news.cnet.com/news/0-1005-200-1713278.html> is an article dated April 18, 2000 on the issue. <http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter. For information from another perspective, see http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.

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You can also use the -nolzw option on ppmtogif to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and other patents covering various aspects of the "front end."
1.1909 argparse 0.8.1

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 jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java
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  jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
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1.1914 pygobject 3.26.1

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1.1920 failureaccess 1.0.1

1.1921 isarray 1.0.0
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* /opt/cola/permits/1110632783_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

1.1922 howett-net-plist 0.0.0-20181124034731-591f970eefbb
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1.1923 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.1924 x-text 0.3.4

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```json
{
    "pagination": {},
}
```

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  "shape": "ServerInternalException"},
  "shape": "AuthorizationException"},
  "shape": "AccessDeniedException"},
  "shape": "RateLimitExceeded Exception"
]}

UpdateLicenseSpecificationsForResource:
name: UpdateLicenseSpecificationsForResource,
http:
  method: "POST",
  requestUri: "/"
input: {"shape": "UpdateLicenseSpecificationsForResourceRequest"},
output: {"shape": "UpdateLicenseSpecificationsForResourceResponse"},
errors: [{"shape": "InvalidParameterValueException"},
  "shape": "InvalidResourceStateException"},
  "shape": "LicenseUsageException"},
  "shape": "ServerInternalException"}
"ConsumedLicenseSummaryList": {
  "type": "list",
  "member": { "shape": "ConsumedLicenseSummary" }
},
"CreateLicenseConfigurationRequest": {
  "type": "structure",
  "required": [
    "Name",
    "LicenseCountingType"
  ],
  "members": {
    "Name": { "shape": "String" },
    "Description": { "shape": "String" },
    "LicenseCountingType": { "shape": "LicenseCountingType" },
    "LicenseCount": { "shape": "BoxLong" },
    "LicenseCountHardLimit": { "shape": "BoxBoolean" },
    "LicenseRules": { "shape": "StringList" },
    "Tags": { "shape": "TagList" }
  }
},
"CreateLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": { "shape": "String" }
  }
},
"DateTime": { "type": "timestamp" },
"DeleteLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": { "shape": "String" }
  }
},
"DeleteLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
  }
},
"FailedDependencyException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "exception": true,
  "fault": true
},
"Filter": {

"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},

"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
  }
},

"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "synthetic":true
},

"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},

"InventoryFilter":{
  "type":"structure",
  "required":{
    "Name",
    "Condition"
  },
  "members":{
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},

"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "ENDS_WITH",
    "CONTAINS",
    "NOT_CONTAINS",
    "LESS_THAN",
    "LESS_THAN_OR_EQUAL_TO",
    "GREATER_THAN",
    "GREATER_THAN_OR_EQUAL_TO",
    "NOT_EQUALS_ANY_OF",
    "NOT_EQUALS_ALL_OF",
    "NOT_BEGINS_WITH",
    "NOT_CONTAINS",
    "NOT_ENDS_WITH",
    "NOT_EQUALS_ANY_OF",
    "NOT_EQUALS_ALL_OF",
    "NOT_CONDITION"
  ]
}
"ResourceArn":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceStatus":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"ConsumedLicenses":{"shape":"BoxLong"}
}].

"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
}].

"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
}.

"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
}.

"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
}.

"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
}.

"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
}.

"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseCountingType":{"shape":"string"},
    "LicenseSpecification":{
      "type":"structure",
      "required":["LicenseConfigurationArn"],
      "members":{
        "LicenseConfigurationArn":{"shape":"String"}
      }
    },
    "LicenseSpecifications":{
      "type":"list",
      "member":{"shape":"LicenseSpecification"}
    },
    "LicenseUsageException":{
      "type":"structure",
      "members":{
        "Message":{"shape":"Message"}
      },
      "exception":true
    }
  }
}.
"Filters": {"shape": "InventoryFilterList"}
}
,"ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {"shape": "ResourceInventoryList"},
"NextToken": {"shape": "String"}
}
},
,"ListTagsForResourceRequest": {
"type": "structure",
"required": ["ResourceArn"],
"members": {
"ResourceArn": {"shape": "String"}
}
},
,"ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {"shape": "TagList"}
}
},
,"ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"required": ["LicenseConfigurationArn"],
"members": {
"LicenseConfigurationArn": {"shape": "String"},
"MaxResults": {"shape": "BoxInteger"},
"NextToken": {"shape": "String"},
"Filters": {"shape": "Filters"}
}
},
,"ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {"shape": "LicenseConfigurationUsageList"},
"NextToken": {"shape": "String"}
}
},
,"ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType": {"shape": "ResourceType"},
"AssociationCount": {"shape": "BoxLong"}
}
},
,"ManagedResourceSummaryList": {"shape": "ManagedResourceSummaryList"}
"type":"list",
"member":{
  "shape":"ManagedResourceSummary"
}
},
"Message":{
  "type":"string",
  "OrganizationConfiguration":{
    "type":"structure",
    "required": [
      "EnableIntegration"
    ],
    "members":{
      "EnableIntegration":{
        "shape":"Boolean"
      }
    }
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{
      "shape":"Message"
    }
  },
  "exception":true
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String"
    },
    "ResourceType":{
      "shape": "ResourceType"
    },
    "ResourceArn":{
      "shape":"String"
    },
    "Platform":{
      "shape":"String"
    },
    "PlatformVersion":{
      "shape":"String"
    },
    "ResourceOwningAccountId":{
      "shape":"String"
    }
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{
    "shape":"ResourceInventory"
  }
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{
      "shape": "Message"
    }
  },
  "exception":true
},
"ResourceType":{
  "type": "string",
  "enum": [
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI"
  ]
}
"ServerInternalException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true,
  "fault": true
},
"String": {"type": "string"},
"StringList": {
  "type": "list",
  "member": {"shape": "String"}
},
"Tag": {
  "type": "structure",
  "members": {
    "Key": {"shape": "String"},
    "Value": {"shape": "String"}
  }
},
"TagKeyList": {
  "type": "list",
  "member": {"shape": "String"}
},
"TagList": {
  "type": "list",
  "member": {"shape": "Tag"}
},
"TagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "Tags"
  ],
  "members": {
    "ResourceArn": {"shape": "String"},
    "Tags": {"shape": "TagList"}
  }
},
"TagResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"UntagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
  ]}
"TagKeys",
]",
"members"/>
"ResourceArn": {"shape":"String"},
"TagKeys": {"shape":"TagKeyList"}
}
",
"UntagResourceResponse": {"type":"structure",
"members":
}
",
"UpdateLicenseConfigurationRequest": {"type": "structure",
"required": ["LicenseConfigurationArn"],
"members": {
"LicenseConfigurationArn": {"shape": "String"},
"LicenseConfigurationStatus": {"shape": "LicenseConfigurationStatus"},
"LicenseRules": {"shape": "StringList"},
"LicenseCount": {"shape": "BoxLong"},
"LicenseCountHardLimit": {"shape": "BoxBoolean"},
"Name": {"shape": "String"},
"Description": {"shape": "String"}
}
",
"UpdateLicenseConfigurationResponse": {
"type": "structure",
"members":
}
",
"UpdateLicenseSpecificationsForResourceRequest": {"type": "structure",
"required": ["ResourceArn"],
"members": {
"ResourceArn": {"shape": "String"},
"AddLicenseSpecifications": {"shape": "LicenseSpecifications"},
"RemoveLicenseSpecifications": {"shape": "LicenseSpecifications"}
}
",
"UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members":
}
",
"UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {"shape": "String"},
"S3LicenseSpecification": {"shape": "S3LicenseSpecification"}
}
"SnsTopicArn": {"shape": "String"},
"OrganizationConfiguration": {"shape": "OrganizationConfiguration"},
"EnableCrossAccountsDiscovery": {"shape": "BoxBoolean"}
}
",
"UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
}
}
}
}

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{ "version": "2.0",
 "service": "<fullname> AWS License Manager </fullname> <p> <i>This is the AWS License Manager API Reference. </i> It provides descriptions, syntax, and usage examples for each of the actions and data types for License Manager. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL. </p> <p> Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see <a href="http://aws.amazon.com/tools/#SDKs">AWS SDKs</a>. </p> ",
 "operations": {
"CreateLicenseConfiguration": "<p>Creates a new license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.</p>",
"DeleteLicenseConfiguration": "<p>Deletes an existing license configuration. This action fails if the configuration is in use.</p>",
"GetLicenseConfiguration": "<p>Retrieves a detailed description of a license configuration.</p>",
"GetServiceSettings": "<p>Gets License Manager settings for a region. Exposes the configured S3 bucket, SNS topic, etc., for inspection.</p>",
"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for a license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance may not consume a license (depending on the license rules). Use this operation to find all resources associated with a license configuration.</p>",
"ListLicenseConfigurations": "<p>Lists license configuration objects for an account, each containing the name, description, license type, and other license terms modeled from a license agreement.</p>",
"ListLicenseSpecificationsForResource": "<p>Returns the license configuration for a resource.</p>",
"ListResourceInventory": "<p>Returns a detailed list of resources.</p>",
"ListTagsForResource": "<p>Lists tags attached to a resource.</p>",
"ListUsageForLicenseConfiguration": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",
"TagResource": "<p>Attach one or more tags to any resource.</p>",
"UntagResource": "<p>Remove tags from a resource.</p>",
"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (instances, cores, sockets, VCPUs), tenancy (shared or Dedicated Host), host affinity (how long a VM is associated with a host), the number of licenses purchased and used.</p>",
"UpdateLicenseSpecificationsForResource": "<p>Adds or removes license configurations for a specified AWS resource. This operation currently supports updating the license specifications of AMIs, instances, and hosts. Launch templates and AWS CloudFormation templates are not managed from this operation as those resources send the license configurations directly to a resource creation operation, such as <code>RunInstances</code>.</p>",
"UpdateServiceSettings": "<p>Updates License Manager service settings.</p>"
"OrganizationConfiguration$:EnableIntegration": "<p>Flag to activate AWS Organization integration.</p>"
},

"CreateLicenseConfigurationRequest$:LicenseCountHardLimit": "<p>Flag indicating whether hard or soft license enforcement is used. Exceeding a hard limit results in the blocked deployment of new instances.</p>",

"GetLicenseConfigurationResponse$:LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",

"GetServiceSettingsResponse$:EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery has been enabled.</p>",

"LicenseConfiguration$:LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",

"UpdateLicenseConfigurationRequest$:LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",

"UpdateServiceSettingsRequest$:EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"
},

"ListAssociationsForLicenseConfigurationRequest$:MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",

"ListLicenseConfigurationsRequest$:MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",

"ListLicenseSpecificationsForResourceRequest$:MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",

"ListResourceInventoryRequest$:MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",

"ListUsageForLicenseConfigurationRequest$:MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>"
},

"ConsumedLicenseSummary$:ConsumedLicenses": "<p>Number of licenses consumed by a resource.</p>",

"CreateLicenseConfigurationRequest$:LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",

"GetLicenseConfigurationResponse$:LicenseCount": "<p>Number of available licenses.</p>",

"GetLicenseConfigurationResponse$:ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>"
"LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
"LicenseConfiguration$ConsumedLicenses": "<p>Number of licenses consumed.</p>",
"LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed out of the total provisioned in the license configuration.</p>",
"ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
"UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license configuration.</p>"
}
},
"ConsumedLicenseSummary": {
"base": "<p>Details about license consumption.</p>",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>List of summaries for consumed licenses used by various resources.</p>",
"LicenseConfiguration$ConsumedLicenseSummaryList": "<p>List of summaries for licenses consumed by various resources.</p>"
}
},
"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DateTime": {
"base": null,
"refs": {
"LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
"LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with a resource.</p>"
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": "<p>A dependency required to run the API is missing.</p>",
"refs": {
}
},
"Filter": {
"base": "<p>A filter name and value pair that is used to return a more specific list of results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. The filters supported by a <code>Describe</code> operation are documented with the <code>Describe</code> operation.</p>",
"refs": {
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": "<p>The request uses too many filters or too many filter values.</p>",
"refs": {
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": "<p>One or more filter values. Filter values are case-sensitive.</p>"
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": "<p>One or more filters.</p>",
"ListUsageForLicenseConfigurationRequest$Filters": "<p>List of filters to apply.</p>"
}
"GetLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"InvalidParameterValueException": {
  "base": "<p>One or more parameter values are not valid.</p>",
  "refs": {
  }
},
"InvalidResourceStateException": {
  "base": "<p>License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
  "refs": {
  }
},
"InventoryFilter": {
  "base": "An inventory filter object.",
  "refs": {
    "InventoryFilterList$member": null
  }
},
"InventoryFilterCondition": {
  "base": null,
  "refs": {
    "InventoryFilter$Condition": "The condition of the filter.",
  }
},
"InventoryFilterList": {
  "base": null,
  "refs": {
    "ListResourceInventoryRequest$Filters": "One or more filters.",
  }
}
A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.

Describes a server resource that is associated with a license configuration.

Lists association objects for the license configuration, each containing the association time, number of consumed licenses, resource ARN, resource ID, account ID that owns the resource, resource size, and resource type.

New status of the license configuration (<code>ACTIVE</code> or <code>INACTIVE</code>).

Contains details of the usage of each resource from the license pool.

An array of <code>LicenseConfigurationUsage</code> objects.
"refs": {
  "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Array of license configuration objects.</p>"
},

"LicenseCountingType": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension on which the licenses are counted (for example, instances, cores, sockets, or VCPUs).</p>",
    "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track license inventory.</p>"
  }
},

"LicenseSpecification": {
  "base": "<p>Object used for associating a license configuration with a resource.</p>",
  "refs": {
    "LicenseSpecifications$member": null
  }
},

"LicenseSpecifications": {
  "base": null,
  "refs": {
    "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations associated with a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>License configuration ARNs to be added to a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>License configuration ARNs to be removed from a resource.</p>"
  }
},

"LicenseUsageException": {
  "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "refs": {
  }
},

"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},

"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},

"ListLicenseConfigurationsRequest": {

"GetLicenseConfigurationResponse$Description": "<p>Description of the license configuration.</p>",
"GetLicenseConfigurationResponse$Status": "<p>License configuration status (active, etc.).</p>",
"GetLicenseConfigurationResponse$OwnerAccountId": "<p>Owner account ID for the license configuration.</p>",
"GetServiceSettingsResponse$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, etc.</p>",
"GetServiceSettingsResponse$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",
"InventoryFilter$Name": "<p>The name of the filter.</p>",
"InventoryFilter$Value": "<p>Value of the filter.</p>",
"LicenseConfiguration$LicenseConfigurationId": "<p>Unique ID of the <code>LicenseConfiguration</code> object.</p>",
"LicenseConfiguration$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>",
"LicenseConfiguration$Name": "<p>Name of the license configuration.</p>",
"LicenseConfiguration$Description": "<p>Description of the license configuration.</p>",
"LicenseConfiguration$Status": "<p>Status of the license configuration.</p>",
"LicenseConfiguration$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",
"LicenseConfigurationAssociation$ResourceArn": "<p>ARN of the resource associated with the license configuration.</p>",
"LicenseConfigurationAssociation$ResourceOwnerId": "<p>ID of the AWS account that owns the resource consuming licenses.</p>",
"LicenseConfigurationUsage$ResourceArn": "<p>ARN of the resource associated with a license configuration.</p>",
"LicenseConfigurationUsage$ResourceStatus": "<p>Status of a resource associated with the license configuration.</p>",
"LicenseConfigurationUsage$ResourceOwnerId": "<p>ID of the account that owns a resource that is associated with the license configuration.</p>",
"LicenseSpecification$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of a <code>LicenseConfiguration</code> object.</p>",
"ListAssociationsForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListAssociationsForLicenseConfigurationResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConfigurationsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConfigurationsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": "<p>ARN of an AMI or Amazon EC2 instance that has an associated license configuration.</p>",
"ListLicenseSpecificationsForResourceRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseSpecificationsForResourceResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListResourceInventoryRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListResourceInventoryResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListTagForLicenseRequest$ResourceArn": "<p>ARN for the resource.</p>",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of the targeted <code>LicenseConfiguration</code> object.</p>",
"ListUsageForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListUsageForLicenseConfigurationResponse$NextToken": "<p>Token for the next set of results.</p>",
"ResourceInventory$ResourceId": "<p>Unique ID of the resource.</p>",

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"ResourceInventory$ResourceArn": "<p>The ARN of the resource.</p>",
"ResourceInventory$Platform": "<p>The platform of the resource.</p>",
"ResourceInventory$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",
"ResourceInventory$ResourceOwningAccountId": "<p>Unique ID of the account that owns the resource.</p>",
"StringList$member": null,
"Tag$Key": "<p>Key for the resource tag.</p>",
"Tag$Value": "<p>Value for the resource tag.</p>",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": "<p>Resource of the ARN to be tagged.</p>",
"UntagResourceRequest$ResourceArn": "<p>ARN of the resource.</p>",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN for a license configuration.</p>",
"UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>",
"UpdateLicenseConfigurationRequest$Description": "<p>New human-friendly description of the license configuration.</p>",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>ARN for an AWS server resource.</p>",
"UpdateServiceSettingsRequest$S3BucketArn": "<p>ARN of the Amazon S3 bucket where License Manager information is stored.</p>",
"UpdateServiceSettingsRequest$SnsTopicArn": "<p>ARN of the Amazon SNS topic used for License Manager alerts.</p>",

"StringList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseRules": "<p>Array of configured License Manager rules.</p>",
    "GetLicenseConfigurationResponse$LicenseRules": "<p>List of flexible text strings designating license rules.</p>",
    "LicenseConfiguration$LicenseRules": "<p>Array of configured License Manager rules.</p>",
    "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>An array of ARNs for the calling accounts license configurations.</p>",
    "UpdateLicenseConfigurationRequest$LicenseRules": "<p>List of flexible text strings designating license rules.</p>",
  }
},
"Tag": {
  "base": "<p>Tag for a resource in a key-value format.</p>",
  "refs": {
    "TagList$member": null
  }
},
"TagKeyList": {
  "base": null,
  "refs": {
    "UntagResourceRequest$TagKeys": "<p>List keys identifying tags to remove.</p>
  }
},
"TagList": {
The tags to apply to the resources during launch. You can only tag instances and volumes on launch. The specified tags are applied to all instances or volumes that are created during launch. To tag a resource after it has been created, see CreateTags.

 List of tags attached to the license configuration.

List of tags attached to the resource.

Names of the tags to attach to the resource.
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1.1926 zap 1.13.0
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1.1936 googleapis-gnostic 0.4.1

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1.1937 github.com/facebookgo/inject 0.0.0-20180706035515-f23751cae28b

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1.1938 vividcortex-mysqlerr 0.0.0-20170204212430-6c6b55f8796f
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1.1940 jinja2 2.11.3

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Found in path(s):
*/opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/LICENSE.rst

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
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`_

.. code-block:: text

    $ pip install -U Jinja2

In A Nutshell
-------------

.. code-block:: jinja

```jinja
{% 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
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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
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__ = "(?P<version>\d+)"', 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",
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        "License :: OSI Approved :: BSD License",
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        "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/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/setup.py

1.1941 signal-exit 3.0.7

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1.1942 mergo 0.3.7
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.1943 mna-redisc 1.1.7

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1.1944 mux 1.7.4-0.20191024121256-f395758b854c

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1.1945 @npmcli/name-from-folder 1.0.1

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1.1946 irqbalance 1.3.0 0.1ubuntu0.18.04.1

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/hcrypto/test_dh.c

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1.1955 pq 1.10.4
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//go:build go1.10
// +build go1.10

package pq

import (
  "context"
  "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
  return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used // to unset it. This is rarely used directly, use ConnectorNoticeHandler and // ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands // won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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1.1956 python-pyasn1-modules 0.2.1-0.2

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1.1957 asn1 0.2.6

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1.1959 jetty-util 9.4.35.v20201120

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------
Eclipse

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

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

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

------

Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

------

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

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

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is
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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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1.1967 viper 1.8.1

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1.1969 errors 0.9.1

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1.1970 grpc-ecosystem-go-grpc-middleware

1.2.0

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1.1971 postgresql 14.1

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    "io/ioutil"  
    "os"    
    "path/filepath"  
    "strings"  
    "testing"  
)

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    package main

    import (  
        "bytes"  
        "io/ioutil"  
        "os"  
        "path/filepath"  
        "testing"  
    )

    const (  
        licenseHeader = "/\n        // Permission is hereby granted, free of charge, to any person obtaining a copy\n        // of this software and associated documentation files (the "Software\n        // "), to deal\n        // in the Software without restriction, including without limitation the rights\n        // to use, copy, modify, merge, publish, distribute, sublicense, and/or sell\n        // copies of the Software, and to permit persons to whom the Software is\n        // furnished to do so, subject to the following conditions:\n        //\n        // The above copyright notice and this permission notice shall be included in\n        // all copies or substantial portions of the Software.\n        //\n        // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n        // IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n        // FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n        // AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n        // LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,\n        // OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN\n        // THE SOFTWARE."\n    )
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"// OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
"// THE SOFTWARE.
"

prefix = "// Copyright 
"

func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
      return err
    }

    if filepath.Ext(path) != ".go" {
      return nil
    }

    if strings.Contains(path, "vendor/") {
      return nil
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }

    if !bytes.Contains(src, []byte(licenseHeader)) {
      t.Errorf("%v: no license header found", path)
      return nil
    }

    if !bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: no license at the top", path)
    }

    return nil
  })
}
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1.1975 github.com/grafana/grafana-plugin-sdk-go 0.79.0
1.1975.1 Available under license :

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1.1976 go-uber-org-multierr 1.5.0

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1.1977 govalidator 0.0.0-20200108200545-475eaeb16496

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1.1979 nghttp2 1.30.0-1ubuntu1
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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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1.1980 mawk 1.3.3 17ubuntu3

1.1980.1 Available under license:

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1.1984 libdate-manip-perl 6.60-1

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1.1985 github.com/grafana/grafana-plugin-model 0.0.0-20190930120109-1fc953a61fb4

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

### Installation

```
```  

```go
go get go.uber.org/tools/update-license
```  

### Usage

```
```  

```
```  

### Further Work

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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Configurable modular Prometheus exporter for various node metrics.
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1.1987 go-yaml 2.4.0

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1.1989 istio-io-pkg 0.0.0-20211206163648-57f93bc2eff7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package model

import (
    core "github.com/envoyproxy/go-control-plane/envoy/config/core/v3"
    rbacpb "github.com/envoyproxy/go-control-plane/envoy/config/rbac/v3"
    routepb "github.com/envoyproxy/go-control-plane/envoy/config/route/v3"
    matcherpb "github.com/envoyproxy/go-control-plane/envoy/type/matcher/v3"
)

func permissionAny() *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Any{
            Any: true,
        },
    }
}

func permissionAnd(permission []*rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_AndRules{
            AndRules: &rbacpb.Permission_Set{
                Rules: permission,
            },
        },
    }
}

func permissionOr(permission []*rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_OrRules{
            OrRules: &rbacpb.Permission_Set{
                Rules: permission,
            },
        },
    }
}

func permissionNot(permission *rbacpb.Permission) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_NotRule{
            NotRule: permission,
        },
    }
}

func permissionDestinationIP(cidr *core.CidrRange) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_DestinationIp{
            DestinationIp: cidr,
        },
    }
}

func permissionDestinationPort(port uint32) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_DestinationPort{
            DestinationPort: port,
        },
    }
}

func permissionRequestedServerName(name *matcherpb.StringMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_RequestedServerName{
            RequestedServerName: name,
        },
    }
}
func permissionMetadata(metadata *matcherpb.MetadataMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Metadata{
            Metadata: metadata,
        },
    }
}

func permissionHeader(header *routepb.HeaderMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_Header{
            Header: header,
        },
    }
}

func permissionPath(path *matcherpb.PathMatcher) *rbacpb.Permission {
    return &rbacpb.Permission{
        Rule: &rbacpb.Permission_UrlPath{
            UrlPath: path,
        },
    }
}

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apiVersion: release-notes/v2
kind: bug-fix
area: telemetry
issue:
  - 29919
releaseNotes:
  - |
    **Fixed** an issue where certificate provisioned by sidecar proxy cannot be used by Prometheus.

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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\nModule-Build mailing list at <module-build@perl.org>.," 
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
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) = $output =~ /\bcopyright \d{4}.\b\b(\d{4})\b/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.1991 python-attrs 17.4.0-2
1.1991.1 Available under license :

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1.1992 go-runtime 1.15.5
1.1992.1 Available under license :
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1.1993 github.com/square/certigo 1.11.0

1.1993.1 Available under license:

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/base/CommonMatcher.java
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jar/com/google/common/base/CommonPattern.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/StandardMutableNetwork.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/DirectedGraphConnections.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
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/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
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*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicates.java
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteStreams.java

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  jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/common/hash/AbstractHashFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Java8Compatibility.java
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jar/com/google/common/util/concurrent/Internal.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java

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  jar/com/google/common/collection/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ExecutionSequencer.java
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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
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  jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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jar/com/google/common/collection/GeneralRange.java
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jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/SortedIterables.java
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jar/com/google/common/collection/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/RangeSet.java
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jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/Count.java
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jar/com/google/common/collection/SortedIterables.java
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jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/Count.java
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jar/com/google/common/collection/ImmutableSortedMultiset.java

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>Returns an array containing all of the elements in the specified collection. This method
returns the elements in the order they are returned by the collection's iterator. The returned
array is "safe" in that no references to it are maintained by the collection. The caller is
thus free to modify the returned array.

This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@param c the collection for which to return an array of elements

*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Java8Usage.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/reflect>TypeToken.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/IndexedImmutableSet.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactHashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingDeque.java

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/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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 */

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  jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Immutables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/CollectionPreconditions.java
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/**
* Holder for web specializations of methods of [@code Shorts], Intended to be empty for regular
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/io/CharSource.java
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jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/WriteMode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in 
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the 
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 */

/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/SuccessorsFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/MutableGraph.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/Booleans.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/escape/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Stopwatch.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 */
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.</b>*/

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1.2001 mitchellh-copystructure 1.0.0

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1.2004 prometheus-client 0.9.2

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1.2011 python3-click 6.7-3

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1.2012 bean-validation-api 1.1.0.Final
1.2013 github.com/linkedin/goavro/v2 2.9.7

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1.2014 containerd-console 1.0.2
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1.2015 cyphar-filepath-securejoin 0.2.2

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1.2016 brace-expansion 1.1.11

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c

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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/man1,
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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" Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
" */
"
" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
"

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" */
"
" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
"

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*
*/

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title: Legalities
parent: Release & Milestone Tasks
grand_parent: Contributors
nav_order: 70
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See [svn changeset r39632](https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71)
for an example; there should be only two files to update.
##-*-makefile-*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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,-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) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /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).$(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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1.2030 go-openapi-errors 0.19.2

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[PCRE]

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

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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1.2041 libjpeg 6b

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
======
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

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

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

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

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

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

**TO DO**

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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1.2042 jersey-bean-validation 2.25.1

**1.2042.1 Available under license:**

CDDL+GPL License

http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.2043 armon-go-metrics 1.1.9

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1.2053 @npmcli/fs 1.1.0

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1.2054 get-func-name 2.0.0

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1.2057 zlib 1.1.3

1.2058 brltty 5.5-4ubuntu2.0.1

1.2058.1 Available under license:

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfis provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2062 kubernetes v1.21.0

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID string `json:"arrayUUID,omitempty"
    ClusterID string `json:"clusterID,omitempty"
    CustomerID string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage int `json:"storage"
    ValidUntil time.Time `json:"validUntil"
    LicenceType string `json:"licenceType"
}
Features  map[FeatureType]bool `json:"features"
Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
  Key string `json:"key"
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const ( // The following statuses are used to indicate the state of support/deprecation in a given release.
deprecated = "deprecated"  // deprecated, but still completely functional
ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses 
)

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `/<namespace>`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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package storageos

import (
    "encoding/json"

    "github.com/storageos/go-api/types"
)

const (
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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Feb, 2010

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tomb - support for clean goroutine termination in Go.

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*/
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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self = ref
        m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{}.
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{}.
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody {
        return body
    }
}

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)
    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument {InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody {
        return body
    }
}

for i := range m.Licenses {
    license := &m.Licenses[i]
    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if label.Value == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument {InvalidProperty: "licenseKey"})
return body

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
      Type: "HostSystem",
      Value: req.EntityId,
    }

    if Map.Get(id) == nil {
      return body
    }
  }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
  },
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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Found in path(s):
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/TransformNewClass.java
jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
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  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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  jar/javassist/bytecode/annotation/Annotation.java
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  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.2073 iconv-lite 0.6.3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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winsup\testsuite\winsup.api\semtest.c
winsup\testsuite\winsup.api\shmtest.c

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winsup\cygserver\sysv_shm.cc

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Version 3.1, 31 March 2009

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========

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.2085 python3-netifaces 0.10.4-0.1build4
1.2085.1 Available under license :

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

Metadata-Version: 1.1
Name: netifaces
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
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system-dependent low-level networking APIs.

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

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    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

    >>> 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: [{'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::

```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]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```
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

```plaintext
>>> 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:

```plaintext
>>> 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:

```plaintext
>>> 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

```plaintext
>>> 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.

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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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Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Topic :: System :: Networking
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3

Found in path(s):
* /opt/cola/permits/1114239827_1607457154.51/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/PKG-INFO
* /opt/cola/permits/1114239827_1607457154.51/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO

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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

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

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>>> 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.

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Found in path(s):
* /opt/cola/permits/1114239827_1607457154.51/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/README.rst
No license file was found, but licenses were detected in source scan.

license="MIT License",
'License :: OSI Approved :: MIT License',

Found in path(s):
* /opt/cola/permits/1114239827_1607457154.51/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/setup.py
1.2086 pam 1.1.8-3.6ubuntu2.18.04.2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
+++/ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, PAM_USER, &user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL, S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+        }
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, PAM_USER, &user);
+        if (pwd != NULL)
+        {
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+            if (stat(flag, &s) != 0)
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+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL, S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+        }
+    }
+finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID back to %d
", privs.old_uid);
+        retval = PAM_SESSION_ERR;
+    }
+
+    _pam_drop(flag);
+    _pam_drop(dir);
+}
+
+ return retval;
+
+ PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+
} 
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.2087 jackson-jaxrs-base 2.9.9

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1.2088 kubernetes-kubectl 0.0.0-20200826142205-e19964183377

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name>:\<path\>`

```
```

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

```
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name>:\<path\>`

```
```

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

```
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```
```

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```
```

## Namespaces
Set the Pod namespace by prefixing the Pod name with `<namespace>`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
touch /tmp/foo
```

```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.2089 make-dfsg 4.1-9.1ubuntu1

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Version 2, June 1991

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

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Copyright (C) <year> <name of author>

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

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

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

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

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

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

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

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

This is at least a partial credits-file of people that have
contributed to the Linux project. It is sorted by name and
formatted to allow easy grepping and beautification by
scripts. The fields are: name (N), email (E), web-address
(W), PGP key ID and fingerprint (P), description (D), and
snail-mail address (S).

Thanks,

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-------

N: Matt Mackal
E: mpm@selenic.com
D: SLOB slab allocator

N: Matti Aarnio
E: mea@nic.funet.fi
D: Alpha systems hacking, IPv6 and other network related stuff
D: One of assisting postmasters for vger.kernel.org's lists
S: (ask for current address)
S: Finland
N: Thomas Abraham
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D: Samsung pin controller driver

N: Dragos Acostachioae
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D: /proc/sysvipc
S: C. Negri 6, bl. D3
S: Iasi 6600
S: Romania

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D: zlib decompression

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S: Argentina
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P: 1024/85AD9EED AD C0 49 08 91 67 DF D7 FA 04 1A EE 09 E8 44 B0  
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D: APM update to 1.2 spec.  
D: /devfs hacking.  
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D: Moving all VFS access checks into the file systems
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D: VIA MVP-3/TX Pro III chipset IDE

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D: elevator + block layer rewrites
D: highmem I/O support
D: misc hacking on IDE, SCSI, block drivers, etc
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D: Wrote SYS V IPC (part of standard kernel since 0.99.10)

N: Chris Ball
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D: Author and maintainer of the Ultrastor 14F/34F SCSI driver
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N: Paul Bame
E: bame@debian.org
E: bame@puffin.external.hp.com
E: paul_bame@hp.com
W: http://www.parisc-linux.org
D: PA-RISC 32 and 64-bit early boot, firmware interface, interrupts, misc
N: Arindam Banerji
E: axb@cse.nd.edu
D: Contributed ESDI driver routines needed to port LINUX to the PS/2 MCA.
S: Department of Computer Science & Eng.
S: University of Notre Dame
S: Notre Dame, Indiana
S: USA

N: Greg Banks
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D: IDT77105 ATM network driver
D: some SuperH port work
D: some trivial futzing with kconfig

N: James Banks
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D: TLAN network driver
D: Logitech Busmouse driver

N: Krzysztof G. Baranowski
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D: Maintainer of the System V file system.
D: System V fs update for 2.1.x dcache.
D: Forward ported a couple of SCSI drivers.
D: Various bugfixes.
S: ul. Koscielna 12a
S: 62-300 Wrzesnia
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S: Canterbury, KENT
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S: England

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D: New sysctl function for handling unsigned longs
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D: Linux CD and Support Giveaway List

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D: IP policy routing by mark
D: Various fixes (mostly networking)
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S: Canada

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D: Configure, Menuconfig, xconfig

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D: EDAC drivers and EDAC 3.0 core rework
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D: Network driver alias support
D: IP masq hashing and app modules
D: IP masq 2.1 features and bugs
S: Las Cuevas 2385 - Bo Guemes
S: Las Heras, Mendoza CP 5539
S: Argentina

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W: http://outflux.net/blog/
P: 4096R/DC6DC026 A5C3 F68F 229D D60F 723E 6E13 8972 F4DF DC6D C026
D: Various security things, bug fixes, and documentation.
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N: Alan Cox  
W: http://www.linux.org.uk/diary/  
D: Linux Networking (0.99.10->2.0.29)  
D: Original Appletalk, AX.25, and IPX code  
D: 3c501 hacker  
D: Watchdog timer drivers  
D: Linux/SMP x86 (up to 2.0 only)  
D: Initial Mac68K port  
D: Video4Linux design, bw-qcam and PMS driver ports.  
D: IDE modularisation work  
D: Z85230 driver  
D: Former security contact point (please use vendor-sec@lst.de)  
D: ex 2.2 maintainer  
D: 2.1.x modular sound  
D: Assigned major/minor numbers maintainer at lanana.org  
S: c/o Red Hat UK Ltd  
S: Alexandra House  
S: Alexandra Terrace  
S: Guildford, GU1 3DA  
S: United Kingdom

N: Cristian Mihail Craciunescu  
W: http://www.dnt.ro/~cristi/  
E: cristi@dnt.ro  
D: Support for Xircom PGSDB9 (firmware and host driver)  
S: Bucharest  
S: Romania

N: Laurence Culhane  
E: loz@holmes.demon.co.uk  
D: Wrote the initial alpha SLIP code  
S: 81 Hood Street
N: Massimo Dal Zotto  
E: dz@debian.org  
D: i8k Dell laptop SMM driver

N: Uwe Dannowski  
E: Uwe.Dannowski@ira.uka.de  
W: http://i30www.ira.uka.de/~dannowsk/  
D: FORE PCA-200E driver  
S: University of Karlsruhe  
S: Germany

N: Ray Dassen  
E: jdassen@wi.LeidenUniv.nl  
W: http://www.wi.leidenuniv.nl/~jdassen/  
P: 1024/672D05C1 DD 60 32 60 F7 90 64 80 E7 6F D4 E4 F8 C9 4A 58  
D: Debian GNU/Linux: www.debian.org maintainer, FAQ co-maintainer,  
D: packages testing, nit-picking & fixing. Enjoying BugFree (TM) kernels.  
S: Zuidsingel 10A  
S: 2312 SB  Leiden  
S: The Netherlands

N: David Davies  
E: davies@wanton.lkg.dec.com  
D: Network driver author - depca, ewrk3 and de4x5  
D: Wrote shared interrupt support  
S: Digital Equipment Corporation  
S: 550 King Street  
S: Littleton, Massachusetts 01460  
S: USA

N: Frank Davis  
E: fdavis@si.rr.com  
E: fdavis112@juno.com  
D: Various kernel patches  
S: 8 Lakeview Terr.  
S: Kerhonkson, NY 12446  
S: USA

N: Wayne Davison  
E: davison@borland.com  
D: Second extended file system co-designer

N: Terry Dawson  
E: terry@perf.no.itg.telecom.com.au
E: terry@albert.vk2ktj.ampr.org (Amateur Radio use only)
D: trivial hack to add variable address length routing to Rose.
D: AX25-HOWTO, HAM-HOWTO, IPX-HOWTO, NET-2-HOWTO
D: ax25-utils maintainer.

N: Helge Deller
E: deller@gmx.de
E: hdeller@redhat.de
D: PA-RISC Linux hacker, LASI-, ASP-, WAX-, LCD/LED-driver
S: Schimmelsrain 1
S: D-69231 Rauenberg
S: Germany

N: Jean Delvare
E: jdelvare@suse.de
W: http://jdelvare.nerim.net/
D: Several hardware monitoring drivers
S: France

N: Peter Denison
E: peterd@pnd-pc.demon.co.uk
W: http://www.pnd-pc.demon.co.uk/promise/
D: Promise DC4030VL caching HD controller drivers

N: Todd J. Derr
E: tjd@fore.com
W: http://www.wordsmith.org/~tjd
D: Random console hacks and other miscellaneous stuff
S: 3000 FORE Drive
S: Warrendale, Pennsylvania 15086
S: USA

N: Martin Devera
E: devik@cdi.cz
W: http://luxik.cdi.cz/~devik/qos/
D: HTB qdisc and random networking hacks

N: Alex deVries
E: alex@onefishtwo.ca
D: Various SGI parts, bits of HAL2 and Newport, PA-RISC Linux.
S: 41.5 William Street
S: Ottawa, Ontario
S: K1N 6Z9
S: CANADA

N: Jeff Dike
E: jdike@karaya.com
W: http://user-mode-linux.sourceforge.net
D: User mode kernel port
S: 375 Tubbs Hill Rd
S: Deering NH 03244
S: USA

N: Matt Domsch
E: Matt_Domsch@dell.com
W: http://www.dell.com/linux
W: http://domsch.com/linux
D: Linux/IA-64
D: Dell PowerEdge server, SCSI layer, misc drivers, and other patches
S: Dell Inc.
S: One Dell Way
S: Round Rock, TX 78682
S: USA

N: Mattia Dongili
E: malattia@gmail.com
D: cpufrequtils (precursor to cpupowerutils)

N: Ben Dooks
E: ben-linux@fluff.org
E: ben@simtec.co.uk
W: http://www.fluff.org/ben/
W: http://www.simtec.co.uk/
D: Samsung S3C2410/S3C2440 support, general ARM support
D: Maintaining Simtec Electronics development boards
S: Simtec Electronics
S: Avondale Drive
S: Tarleton
S: Preston
S: Lancs
S: PR4 6AX
S: United Kingdom

N: Ivo van Doorn
E: IvDoorn@gmail.com
W: http://www.mendiosus.nl
D: Ralink rt2x00 WLAN driver
S: Haarlem, The Netherlands

N: John G Dorsey
E: john+@cs.cmu.edu
D: ARM Linux ports to Assabet/Neponset, Spot
S: Department of Electrical and Computer Engineering
S: Carnegie Mellon University
S: Pittsburgh, PA 15213
S: USA
N: Eddie C. Dost  
E: ecd@skynet.be  
D: Linux/Sparc kernel hacker  
D: Linux/Sparc maintainer  
S: Rue de la Chapelle 51  
S: 4850 Moresnet  
S: Belgium  

N: Cort Dougan  
E: cort@fsmlabs.com  
W: http://www.fsmlabs.com/linuxppcbk.html  
D: PowerPC  

N: Daniel Drake  
E: dsd@gentoo.org  
D: USBAT02 CompactFlash support in usb-storage  
S: UK  

N: Oleg Drokin  
E: green@ccssu.crimea.ua  
W: http://www.ccssu.crimea.ua/~green  
D: Cleaning up sound drivers, SA1100 Watchdog.  
S: Skvoznoy per., 14a  
S: Evpatoria  
S: Crimea  
S: UKRAINE, 334320  

N: Walt Drummond  
E: drummond@valinux.com  
D: Linux/IA-64  
S: 1382 Bordeaux Drive  
S: Sunnyvale, CA 94087  
S: USA  

N: Bruno Ducrot  
E: ducrot@poupinou.org  
D: CPUFreq and ACPI bugfixes.  
S: Mougin, France  

N: Don Dugger  
E: n0ano@valinux.com  
D: Linux/IA-64  
S: 1209 Pearl Street, #12  
S: Boulder, CO 80302  
S: USA  

N: Thomas Dunbar
E: tdunbar@vt.edu
D: TeX & METAFONT hacking/maintenance
S: Virginia Tech Computing Center
S: 1700 Pratt Drive
S: Blacksburg, Virginia 24061
S: USA

N: Randy Dunlap
E: rdunlap@infradead.org
W: http://www.infradead.org/~rdunlap/
D: Linux-USB subsystem, USB core/UHCI/printer/storage drivers
D: x86 SMP, ACPI, bootflag hacking
D: documentation, builds
S: (ask for current address)
S: USA

N: Bob Dunlop
E: rjd@xyzzy.clara.co.uk
E: bob.dunlop@farsite.co.uk
W: www.farsite.co.uk
D: FarSync card device driver
S: FarSite Communications Ltd
S: Tempus Business Centre
S: 60 Kingsclere Road
S: Basingstoke RG21 6XG
S: UK

N: Cyrus Durgin
E: cider@speakeasy.org
W: http://www.speakeasy.org/~cider/
D: implemented kmod

N: Torsten Duwe
E: Torsten.Duwe@informatik.uni-erlangen.de
D: Part-time kernel hacker
D: The Linux Support Team Erlangen
S: Grevenbroicher Str. 17
S: 47807 Krefeld
S: Germany

N: Tom Dyas
E: tdyas@eden.rutgers.edu
D: minor hacks and some sparc port stuff
S: New Jersey
S: USA

N: Drew Eckhardt
E: drew@PoohSticks.ORG
D: SCSI code
D: Assorted snippets elsewhere
D: Boot sector "..." printing
S: 2037 Walnut #6
S: Boulder, Colorado 80302
S: USA

N: Hans-Christian Noren Egtvedt
E: egtvedt@samfundet.no
D: AVR32 architecture maintainer.

N: Heiko Eißfeldt
E: heiko@colossus.escape.de heiko@unifix.de
D: verify_area stuff, generic SCSI fixes
D: SCSI Programming HOWTO
D: POSIX.1 compliance testing
S: Unifix Software GmbH
S: Bueltenweg 27a
S: D-38106 Braunschweig
S: Germany

N: Bjorn Ekwall
E: bj0rn@blox.se
W: http://www.pi.se/blox/
D: Extended support for loadable modules
D: D-Link pocket adapter drivers
S: Brevia 1043
S: S-114 79 Stockholm
S: Sweden

N: Pekka Enberg
E: penberg@cs.helsinki.fi
W: http://www.cs.helsinki.fi/u/penberg/
D: Various kernel hacks, fixes, and cleanups.
D: Slab allocators
S: Finland

N: David Engebretsen
E: engebret@us.ibm.com
D: Linux port to 64-bit PowerPC architecture

N: Michael Engel
E: engel@unix-ag.org
D: DECstation framebuffer drivers
S: Germany

N: Paal-Kristian Engstad
E: engstad@intermetrics.com
D: Kernel smbfs (to mount WfW, NT and OS/2 network drives.)
S: 17101 Springdale Street #225
S: Huntington Beach, California 92649
S: USA

N: Stephane Eranian
E: eranian@hpl.hp.com
D: Linux/ia64
S: 1501 Page Mill Rd, MS 1U17
S: Palo Alto, CA 94304
S: USA

N: Johannes Erdfelt
E: johannes@erdfelt.com
D: Linux/IA-64 bootloader and kernel goop, USB
S: 6350 Stoneridge Mall Road
S: Pleasanton, CA 94588
S: USA

N: Dmitry Eremin-Solenikov
E: dbaryshkov@gmail.com
D: Power Supply Maintainer from v3.14 - v3.15

N: Doug Evans
E: dje@cygnus.com
D: Wrote Xenix FS (part of standard kernel since 0.99.15)

N: Riccardo Facchetti
E: fizban@tin.it
P: 1024/6E657BB5 AF 22 90 33 78 76 04 8B AF F9 97 1E B5 E2 65 30
D: Audio Excel DSP 16 init driver author
D: libmodem author
D: Yet Another Micro Monitor port and current maintainer
D: First ELF-HOWTO author
D: random kernel hacker
S: Via Paolo VI n.29
S: 23900 - LECCO (Lc)
S: Italy

N: Nils Faerber
E: nils@kernelconcepts.de
D: i810 TCO watchdog driver author
D: Mitsumi LU005 tests and fixes
D: port and fixes of cs46xx sounddriver
S: Dreisbachstrasse 24
S: D-57250 Netphen
S: Germany
N: Rik Faith
E: faith@acm.org
D: Future Domain TMC-16x0 SCSI driver (author)
D: APM driver (early port)
D: DRM drivers (author of several)

N: János Farkas
E: chexum@shadow.banki.hu
D: romfs, various (mostly networking) fixes
P: 1024/F81FB2E1 41 B7 E4 E6 3E D4 A6 71 6D 9C F3 9F F2 BF DF 6E
S: Madarász Viktor utca 25
S: 1131 Budapest
S: Hungary

N: Ben Fennema
E: bfennema@falcon.csc.calpoly.edu
W: http://www.csc.calpoly.edu/~bfennema
D: UDF filesystem
S: (ask for current address)
S: USA

N: Jürgen Fischer
E: fischer@norbit.de
D: Author of Adaptec AHA-152x SCSI driver
S: Schulstraße 18
S: 26506 Norden
S: Germany

N: Jeremy Fitzhardinge
E: jeremy@goop.org
W: http://www.goop.org/~jeremy
D: author of userfs filesystem
D: Improved mmap and munmap handling
D: General mm minor tidyups
D: autofs v4 maintainer
D: Xen subsystem
S: 987 Alabama St
S: San Francisco
S: CA, 94110
S: USA

N: Ralf Flaxa
E: rfflaxa@immd4.informatik.uni-erlangen.de
D: The Linux Support Team Erlangen
D: Creator of LST distribution
D: Author of installation tool LISA
S: Pfitznerweg 6
S: 74523 Schwäbisch Hall
S: Germany

N: Lawrence Foard
E: entropy@world.std.com
D: Floppy track reading, fs code
S: 217 Park Avenue, Suite 108
S: Worcester, Massachusetts 01609
S: USA

N: Karl Fogel
E: kfogel@cs.oberlin.edu
D: Contributor, Linux User's Guide
S: 1123 North Oak Park Avenue
S: Oak Park, Illinois 60302
S: USA

N: Daniel J. Frasnelli
E: dfrasnel@alphalinux.org
W: http://www.alphalinux.org/
P: 1024/3EF87611 B9 F1 44 50 D3 E8 C2 80 DA E5 55 AA 56 7C 42 DA
D: DEC Alpha hacker
D: Miscellaneous bug squisher

N: Jim Freeman
E: jfree@sovereign.org
W: http://www.sovereign.org/
D: Initial GPL'd Frame Relay driver
D: Dynamic PPP devices
D: Sundry modularizations (PPP, IPX, ...) and fixes

N: Bob Frey
E: bobf@advansys.com
D: AdvanSys SCSI driver
S: 1150 Ringwood Court
S: San Jose, California 95131
S: USA

N: Adam Fritzler
E: mid@zigamorph.net

N: Fernando Fuganti
E: fuganti@conectiva.com.br
E: fuganti@netbank.com.br
D: random kernel hacker, ZF MachZ Watchdog driver
S: Conectiva S.A.
S: R. Tocantins, 89 - Cristo Rei
S: 80050-430 - Curitiba - Paraná
S: Brazil
N: Oded Gabbay  
E: oded.gabbay@gmail.com  
D: AMD KFD maintainer  
S: 12 Shraga Raphaeli  
S: Petah-Tikva, 4906418  
S: Israel

N: Kumar Gala  
E: galak@kernel.crashing.org  
D: Embedded PowerPC 6xx/7xx/74xx/82xx/83xx/85xx support  
S: Austin, Texas 78729  
S: USA

N: Nigel Gamble  
E: nigel@nrg.org  
D: Interrupt-driven printer driver  
D: Preemptible kernel  
S: 120 Alley Way  
S: Mountain View, California 94040  
S: USA

N: Jeff Garzik  
E: jgarzik@pobox.com

N: Jacques Gelinas  
E: jacques@solucorp.qc.ca  
D: Author of the Umsdos file system  
S: 1326 De Val-Brillant  
S: Laval, Quebec  
S: Canada H7Y 1V9

N: David Gentzel  
E: gentzel@telerama.lm.com  
D: Original BusLogic driver and original UltraStor driver  
S: Whitfield Software Services  
S: 600 North Bell Avenue, Suite 160  
S: Carnegie, Pennsylvania 15106-4304  
S: USA

N: Kai Germaschewski  
E: kai@germaschewski.name  
D: Major kbuild rework during the 2.5 cycle  
D: ISDN Maintainer  
S: USA

N: Philip Gladstone  
E: philip@gladstonefamily.net
D: Kernel / timekeeping stuff
S: Carlisle, MA 01741
S: USA

N: Jan-Benedict Glaw
E: jbglaw@lug-owl.de
D: SRM environment driver (for Alpha systems)
P: 1024D/8399E1BB 250D 3BCF 7127 0D8C A444 A961 1DBD 5E75 8399 E1BB

N: Thomas Gleixner
E: tglx@linutronix.de
D: NAND flash hardware support, JFFS2 on NAND flash

N: Richard E. Gooch
E: rgooch@atnf.csiro.au
D: parent process death signal to children
D: prctl() syscall
D: /proc/mtrr support to manipulate MTRRs on Intel P6 family
D: Device File System (devfs)
S: CSIRO Australia Telescope National Facility
S: P.O. Box 76, Epping
S: New South Wales, 2121
S: Australia

N: Carlos E. Gorges
E: carlos@techlinux.com.br
D: fix smp support on cmpci driver
P: 2048G/EA3C4B19 FF31 33A6 0362 4915 B7EB E541 17D0 0379 EA3C 4B19
S: Brazil

N: Dmitry S. Gorodchanin
E: pgmdsg@ibi.com
D: RISCom/8 driver, misc kernel fixes.
S: 4 Main Street
S: Woodbridge, Connecticut 06525
S: USA

N: Paul Gortmaker
E: p_gortmaker@yahoo.com
D: Author of RTC driver & several net drivers, Ethernet & BootPrompt Howto.
D: Made support for modules, ramdisk, generic-serial, etc. optional.
D: Transformed old user space bdflush into 1st kernel thread - kflushd.
D: Many other patches, documentation files, mini kernels, utilities, ...

N: Masanori GOTO
E: gotom@debian.or.jp
D: Workbit NinjaSCSI-32Bi/UDE driver
S: Japan
N: John E. Gotts
E: jgotts@linuxsavvy.com
D: kernel hacker
S: 8124 Constitution Apt. 7
S: Sterling Heights, Michigan 48313
S: USA

N: Wolfgang Grandegger
E: wg@grandegger.com
D: Controller Area Network (device drivers)

N: William Greathouse
E: wgreathouse@smva.com
E: wgreathouse@myfavoritei.com
D: Current Belkin USB Serial Adapter F5U103 hacker
D: Kernel hacker, embedded systems
S: 7802 Fitzwater Road
S: Brecksville, OH 44141-1334
S: USA

N: Tristan Greaves
E: tristan@extricate.org
W: http://www.extricate.org/
D: Miscellaneous ipv4 sysctl patches

N: Michael A. Griffith
E: grif@cs.ucr.edu
W: http://www.cs.ucr.edu/~grif
D: Loopback speedup, qllogics SCSI hacking, VT_LOCKSWITCH
S: Department of Computer Science
S: University of California, Riverside
S: Riverside, California 92521-0304
S: USA

N: Hans Grobler
E: grobh@sun.ac.za
D: Various AX.25/ROSE/NETROM + hamradio driver patches
D: Various X.25/LABP + driver patches
D: Misc kernel fixes and updates
S: Department of Electronic Engineering
S: University of Stellenbosch
S: Stellenbosch, Western Cape
S: South Africa

N: Grant Grundler
E: grundler@parisc-linux.org
W: http://obmouse.sourceforge.net/
W: http://www.parisc-linux.org/
D: obmouse - rewrote Olivier Florent's Omnibook 600 "pop-up" mouse driver
D: PA-RISC - Interrupt/PCI HBA/IOMMU author and architect
S: Mountain View, California
S: USA

N: Grant Guenther
E: grant@torque.net
W: http://www.torque.net/linux-pp.html
D: original author of ppa driver for parallel port ZIP drive
D: original architect of the parallel-port sharing scheme
D: PARIDE subsystem: drivers for parallel port IDE & ATAPI devices
S: 44 St. Joseph Street, Suite 506
S: Toronto, Ontario, M4Y 2W4
S: Canada

N: Richard Günther
E: rguenth@tat.physik.uni-tuebingen.de
W: http://www.tat.physik.uni-tuebingen.de/~rguenth
P: 2048/2E829319 2F 83 FC 93 E9 E4 19 E2 93 7A 32 42 45 37 23 57
D: binfmt_misc
S: 72074 Tübingen
S: Germany

N: Justin Guyett
E: jguyett@andrew.cmu.edu
D: via-rhine net driver hacking

N: Danny ter Haar
E: dth@cistron.nl
D: /proc/cpuinfo, reboot on panic , kernel pre-patch tester ;)
S: Cistron
S: PO-Box 297
S: 2400 AG, Alphen aan den Rijn
S: The Netherlands

N: Enver Haase
E: ehaase@inf.fu-berlin.de
W: http://www.inf.fu-berlin.de/~ehaase
D: Driver for the Commodore A2232 serial board

N: Bruno Haible
E: haible@ma2s2.mathematik.uni-kiarlsruhe.de
D: SysV FS, shm swapping, memory management fixes
S: 17 rue Danton
S: F - 94270 Le Kremlin-Bicêtre
S: France
N: Jack Hammer
D: IBM ServeRAID RAID (ips) driver maintenance

N: Greg Hankins
E: gregh@cc.gatech.edu
D: fixed keyboard driver to separate LED and locking status
S: 25360 Georgia Tech Station
S: Atlanta, Georgia 30332
S: USA

N: Brad Hards
E: bradh@frogmouth.net
D: Various USB bits, other minor patches

N: Angelo Haritsis
E: ah@computer.org
D: kernel patches (serial, watchdog)
D: xringd, vuzkern, greekXfonts
S: 77 Clarence Mews
S: London SE16 1GD
S: United Kingdom

N: Jan Harkes
E: jaharkes@cs.cmu.edu
W: http://www.coda.cs.cmu.edu/
D: Coda file system
S: Computer Science Department
S: Carnegie Mellon University
S: 5000 Forbes Avenue
S: Pittsburgh, Pennsylvania 15213
S: USA

N: Kai Harrekilde-Petersen
E: kai.harrekilde@get2net.dk
D: Original author of the ftape-HOWTO, i82078 fdc detection code.

N: Bart Hartgers
E: bart@etpmod.phys.tue.nl
D: MTRR emulation with Centaur MCRs
S: Gen Stedmanstraat 212
S: 5623 HZ Eindhoven
S: The Netherlands

N: Oliver Hartkopp
E: oliver.hartkopp@volkswagen.de
W: http://www.volkswagen.de
D: Controller Area Network (network layer core)
S: Brieffach 1776
S: 38436 Wolfsburg
S: Germany

N: Andrew Haylett
E: ajh@primag.co.uk
D: Selection mechanism

N: Andre Hedrick
E: andre@linux-ide.org
E: andre@linuxdiskcert.org
W: http://www.linux-ide.org/
W: http://www.linuxdiskcert.org/
D: Random SMP kernel hacker...
D: Uniform Multi-Platform E-IDE driver
D: Active-ATA-Chipset maddness.........
D: Ultra DMA 133/100/66/33 w/48-bit Addressing
D: ATA-Disconnect, ATA-TCQ
D: ATA-Smart Kernel Daemon
D: Serial ATA
D: ATA Command Block and Taskfile
S: Linux ATA Development (LAD)
S: Concord, CA

N: Jochen Hein
E: jochen@jochen.org
P: 1024/4A27F015 25 72 FB E3 85 9F DE 3B CB 0A DA DA 40 77 05 6C
P: 1024D/77D4FC9B F5C5 1C20 1DFC DEC3 3107 54A4 2332 ADFC 77D4 FC9B
D: National Language Support
D: Linux Internationalization Project
D: German Localization for Linux and GNU software
S: Auf der Fittel 18
S: 53347 Alfter
S: Germany

N: Christoph Hellwig
E: hch@infradead.org
D: all kinds of driver, filesystem & core kernel hacking
D: freevxfs driver
D: sysvfs maintainer
D: chief codingstyle nitpicker
S: Ampferstr. 50 / 4
S: 6020 Innsbruck
S: Austria

N: Richard Henderson
E: rth@twiddle.net
E: rth@cygnus.com
D: Alpha hacker, kernel and userland
S: 1668 California St.
S: Mountain View, California 94041
S: USA

N: Benjamin Herrenschmidt
E: benh@kernel.crashing.org
D: Various parts of PPC/PPC64 & PowerMac
S: 312/107 Canberra Avenue
S: Griffith, ACT 2603
S: Australia

N: Andreas Herrmann
E: herrmann.der.user@gmail.com
E: herrmann.der.user@googlemail.com
D: Key developer of x86/AMD64
D: Author of AMD family 15h processor power monitoring driver
D: Maintainer of AMD Athlon 64 and Opteron processor frequency driver
S: Germany

N: Sebastian Hetze
E: she@lunetix.de
D: German Linux Documentation,
D: Organization of German Linux Conferences
S: Danckelmannstr. 48
S: 14059 Berlin
S: Germany

N: David Hinds
E: dahinds@users.sourceforge.net
W: http://tao.stanford.edu/~dhinds
D: PCMCIA and CardBus stuff, PCMCIA-HOWTO, PCMCIA client drivers
S: 2019 W. Middlefield Rd #1
S: Mountain View, CA  94043
S: USA

N: Michael Hipp
E: hippm@informatik.uni-tuebingen.de
D: drivers for the racal ni5210 & ni6510 Ethernet-boards
S: Talstr. 1
S: D - 72072 Tuebingen
S: Germany

N: Richard Hirst
E: richard@sleepie.demon.co.uk
E: rhirst@linuxcare.com
W: http://www.sleepie.demon.co.uk/
D: linux-m68k VME support
D: PA-RISC port, scsi and network drivers
D: 53c700/53c710 driver author, 82596 driver maintainer
S: United Kingdom

N: Jauder Ho
E: jauderho@carumba.com
W: http://www.carumba.com/
D: bug toaster (A1 sauce makes all the difference)
D: Random linux hacker

N: Tim Hockin
E: thockin@hockin.org
W: http://www.hockin.org/~thockin
D: Natsemi ethernet
D: Cobalt Networks (x86) support
D: This-and-That

N: Mark M. Hoffman
E: mhoffman@lightlink.com
D: asb100, lm93 and smsc47b397 hardware monitoring drivers
D: hwmon subsystem core
D: hwmon subsystem maintainer
D: i2c-sis96x and i2c-stub SMBus drivers
S: USA

N: Dirk Hohndel
E: hohndel@suse.de
D: The XFree86[tm] Project
D: USB mouse maintainer
S: SuSE Rhein/Main AG
S: Mergenthalerallee 45-47
S: 65760 Eschborn
S: Germany

N: Kenji Hollis
E: kenji@bitgate.com
W: http://www.bitgate.com/
D: Berkshire PC Watchdog Driver
D: Small/Industrial Driver Project

N: Nick Holloway
E: Nick.Holloway@pyrites.org.uk
W: http://www.pyrites.org.uk/
P: 1024/36115A04 F4E1 3384 FCFD C055 15D6 BA4C AB03 FBF8 3611 5A04
D: Occasional Linux hacker...
S: (ask for current address)
S: United Kingdom

N: Ron Holt
E: ron@holt.org  
E: rholt@netcom.com  
W: http://www.holt.org/  
W: http://www.ronholt.com/  
D: Kernel development  
D: Kernel LDT modifications to support Wabi and Wine  
S: Holtron Internetics, Inc.  
S: 998 East 900 South, Suite 26  
S: Provo, Utah 84606-5607  
S: USA

N: Marcel Holtmann  
E: marcel@holtmann.org  
W: http://www.holtmann.org  
D: Maintainer of the Linux Bluetooth Subsystem  
D: Author and maintainer of the various Bluetooth HCI drivers  
D: Author and maintainer of the CAPI message transport protocol driver  
D: Author and maintainer of the Bluetooth HID protocol driver  
D: Various other Bluetooth related patches, cleanups and fixes  
S: Germany

N: Rob W. W. Hooft  
E: hooft@EMBL-Heidelberg.DE  
D: Shared libs for graphics-tools and for the f2c compiler  
D: Some kernel programming on the floppy and sound drivers in early days  
D: Some other hacks to get different kinds of programs to work for linux  
S: Panoramastrasse 18  
S: D-69126 Heidelberg  
S: Germany

N: Christopher Horn  
E: chorn@warwick.net  
D: Miscellaneous sysctl hacks  
S: 36 Mudtown Road  
S: Wantage, New Jersey 07461  
S: USA

N: Harald Hoyer  
E: harald@redhat.com  
W: http://www.harald-hoyer.de  
D: ip_masq_quake  
D: md boot support  
S: Am Strand 5  
S: D-19063 Schwerin  
S: Germany

N: Jan Hubicka  
E: hubicka@freesoft.cz
E: hubicka@suse.cz
W: http://www.paru.cas.cz/~hubicka/
D: Random kernel tweaks and fixes.
S: Dukelských bojovníku 1944
S: Tabor 390 03
S: Czech Republic

N: David Huggins-Daines
E: dhd@debian.org
E: dhd@eradicator.org
E: dhd@cepstral.com
D: PA-RISC port
D: Nubus subsystem
D: Generic 68k Macintosh framebuffer driver
D: STI framebuffer tweaks
D: LTPC driver tweaks
S: 110 S. 12th St., Apt. A
S: Pittsburgh, PA 15203-1250
S: USA

N: Gareth Hughes
E: gareth.hughes@acm.org
D: Pentium III FXSR, SSE support
D: Author/maintainer of most DRM drivers (especially ATI, MGA)
D: Core DRM templates, general DRM and 3D-related hacking
S: No fixed address

N: Kenn Humborg
E: kenn@wombat.ie
D: Mods to loop device to support sparse backing files
S: Ballinagard
S: Roscommon
S: Ireland

N: Michael Hunold
E: michael@mihu.de
W: http://www.mihu.de/linux/
D: Generic saa7146 video4linux-2 driver core,
D: Driver for the "Multimedia eXtension Board", "dpc7146",
D: "Hexium Orion", "Hexium Gemini"

N: Miguel de Icaza Amozurrutia
E: miguel@nuclecu.unam.mx
D: Linux/SPARC team, Midnight Commander maintainer
S: Avenida Copilco 162, 22-1003
S: Mexico, DF
S: Mexico
N: Ian Jackson
E: iwj10@cus.cam.ac.uk
E: ijackson@nyx.cs.du.edu
D: FAQ maintainer and poster of the daily postings
D: FSSTND group member
D: Debian core team member and maintainer of several Debian packages
S: 2 Lexington Close
S: Cambridge
S: CB3 0DS
S: United Kingdom

N: Andreas Jaeger
E: aj@suse.de
D: Various smaller kernel fixes
D: glibc developer
S: Gottfried-Kinkel-Str. 18
S: D 67659 Kaiserslautern
S: Germany

N: Mike Jagdis
E: jaggy@purplet.demon.co.uk
E: Mike.Jagdis@purplet.demon.co.uk
D: iBCS personalities, socket and X interfaces, x.out loader, syscalls...
D: Purple Distribution maintainer
D: UK FidoNet support
D: ISODE && PP
D: Kernel and device driver hacking
S: 280 Silverdale Road
S: Earley
S: Reading
S: RG6 2NU
S: United Kingdom

N: Dave Jeffery
E: dhjeffery@gmail.com
D: SCSI hacks and IBM ServeRAID RAID driver maintenance

N: Jakub Jelinek
E: jakub@redhat.com
W: http://sunsite.mff.cuni.cz/~jj
P: 1024/0F7623C5 53 95 71 3C EB 73 99 97 02 49 40 47 F9 19 68 20
D: Sparc hacker, SILO, mc
D: Maintain sunsite.mff.cuni.cz
S: K osmidomkum 723
S: 160 00 Praha 6
S: Czech Republic

N: Niels Kristian Bech Jensen
E: nkbj1970@hotmail.com
D: Miscellaneous kernel updates and fixes.

N: Michael K. Johnson
E: johnsonm@redhat.com
W: http://www.redhat.com/~johnsonm
P: 1024/4536A8DD 2A EC 88 08 40 64 CE D8 DD F8 12 2B 61 43 83 15
D: The Linux Documentation Project
D: Kernel Hackers' Guide
D: Proc
D: Proc filesystem
D: Maintain tsx-11.mit.edu
D: LP driver
S: 201 Howell Street, Apartment 1C
S: Chapel Hill, North Carolina 27514-4818
S: USA

N: Dave Jones
E: davej@codemonkey.org.uk
W: http://www.codemonkey.org.uk
D: Assorted VIA x86 support.
D: 2.5 AGPGART overhaul.
D: CPUFREQ maintenance.
D: 'Trinity' and similar fuzz testing work.
D: Misc/Other.

N: Martin Josfsson
E: gandalf@wlug.westbo.se
P: 1024D/F6B6D3B1 7610 7CED 5C34 4AA6 DBA2 8BE1 5A6D AF95 F6B6 D3B1
D: netfilter: SAME target
D: netfilter: helper target
D: netfilter: various other hacks
S: Ronneby
S: Sweden

N: Ani Joshi
E: ajoshi@shell.unixbox.com
D: fbdev hacking

N: Jesper Juhl
E: jj@chaosbits.net
D: Various fixes, cleanups and minor features all over the tree.
D: Wrote initial version of the hdaps driver (since passed on to others).
S: Lemnosvej 1, 3.tv
S: 2300 Copenhagen S.
S: Denmark
N: Jozsef Kadlecák
E: kadlec@blackhole.kfki.hu
P: 1024D/470DB964 4CB3 1A05 713E 9BF7 FAC5 5809 DD8C B7B1 470D B964
D: netfilter: TCP window tracking code
D: netfilter: raw table
D: netfilter: iprange match
D: netfilter: new logging interfaces
D: netfilter: various other hacks
S: Tata
S: Hungary

N: Bernhard Kaindl
E: bkaindl@netway.at
E: edv@bartelt.via.at
D: Author of a menu based configuration tool, kmenu, which
D: is the predecessor of 'make menuconfig' and 'make xconfig'.
D: digitboard driver update(modularisation work and 2.1.x upd)
S: Tallak 95
S: 8103 Rein
S: Austria

N: Mitsuru Kanda
E: mk@linux-ipv6.org
E: mk@isl.rdc.toshiba.co.jp
E: mk@karaba.org
W: http://www.karaba.org/~mk/
P: 1024D/2EC7E30D 4DC3 949B 5A6C F0D6 375F 4472 8888 A8E1 2EC7 E30D
D: IPsec, IPv6
D: USAGI/WIDE Project, TOSHIBA CORPORATION
S: 2-47-8, Takinogawa,
S: Kita, Tokyo 114-0023
S: Japan

N: Jan Kara
E: jack@atrey.karlin.mff.cuni.cz
E: jack@suse.cz
D: Quota fixes for 2.2 kernel
D: Quota fixes for 2.3 kernel
D: Few other fixes in filesystem area (buffer cache, isofs, loopback)
W: http://atrey.karlin.mff.cuni.cz/~jack/
S: Krosenska' 543
S: 181 00 Praha 8
S: Czech Republic

N: Jan "Yenya" Kasprzak
E: kas@fi.muni.cz
D: Author of the COSA/SRP sync serial board driver.
D: Port of the syncppp.c from the 2.0 to the 2.1 kernel.
Jakob Kemi
E: jakob.kemi@telia.com
D: V4L W9966 Webcam driver
S: Forsbyvägen 33
S: 74143 Knivsta
S: Sweden

Fred N. van Kempen
E: waltje@linux.com
D: NET-2
D: Drivers
D: Kernel cleanups
S: Korte Heul 95
S: 1403 ND BUSSUM
S: The Netherlands

Martin Kepplinger
E: martink@posteo.de
E: martin.kepplinger@ginzinger.com
W: http://www.martinkepplinger.com
D: mma8452 accelerators iio driver
D: pegasus_notetaker input driver
D: Kernel fixes and cleanups
S: Garnisonstraße 26
S: 4020 Linz
S: Austria

Karl Keyte
E: karl@koft.com
D: Disk usage statistics and modifications to line printer driver
S: 26a Sheen Road
S: Richmond
S: Surrey
S: TW9 1AE
S: United Kingdom

Marko Kiiskila
E: marko@iprg.nokia.com
D: Author of ATM Lan Emulation
S: 660 Harvard Ave. #7
S: Santa Clara, CA 95051
S: USA

N: Russell King  
E: rmk@arm.linux.org.uk  
D: Linux/arm integrator, maintainer & hacker  
D: Acornfb, Cyber2000fb author  
S: Burgh Heath, Tadworth, Surrey.  
S: England

N: Olaf Kirch  
E: okir@monad.swb.de  
D: Author of the Linux Network Administrators' Guide  
S: Kattreinstr 38  
S: D-64295  
S: Germany

N: Avi Kivity  
E: avi.kivity@gmail.com  
D: Kernel-based Virtual Machine (KVM)  
S: Ra'annana, Israel

N: Andi Kleen  
E: andi@firstfloor.org  
W: http://www.halobates.de  
D: network, x86, NUMA, various hacks  
S: Schwalbenstr. 96  
S: 85551 Ottobrunn  
S: Germany

N: Ian Kluft  
E: ikluft@thunder.sbay.org  
W: http://www.kluft.com/~ikluft/  
D: NET-1 beta testing & minor patches, original Smail binary packages for  
D: Slackware and Debian, vote-taker for 2nd comp.os.linux reorganization  
S: Post Office Box 611311  
S: San Jose, California 95161-1311  
S: USA

N: Thorsten Knabe  
E: Thorsten Knabe <tek@rgb.informatik.tu-darmstadt.de>  
E: Thorsten Knabe <tek01@hrzpub.tu-darmstadt.de>  
W: http://www.student.informatik.tu-darmstadt.de/~tek  
W: http://www.tu-darmstadt.de/~tek01  
P: 1024/3BC8D885 8C 29 C5 0A C0 D1 D6 F4 20 D4 2D AB 29 F6 D0 60  
D: AD1816 sound driver  
S: Am Bergfried 10  
S: 63225 Langen  
S: Germany
N: Alain L. Knaff  
E: Alain.Knaff@lll.lu  
D: floppy driver  
S: 19, rue Jean l’Aveugle  
S: L-1148 Luxembourg-City  
S: Luxembourg

N: Gerd Knorr  
W: http://bytesex.org  
E: kraxel@bytesex.org  
E: kraxel@suse.de  
D: video4linux, bttv, vesafb, some scsi, misc fixes

N: Hans J. Koch  
D: USERSPACE I/O, MAX6650  
D: Hans passed away in June 2016, and will be greatly missed.  
W: https://lwn.net/Articles/691000/

N: Harald Koenig  
E: koenig@tat.physik.uni-tuebingen.de  
D: XFree86 (S3), DCF77, some kernel hacks and fixes  
S: Koenigsberger Str. 90  
S: D-72336 Balingen  
S: Germany

N: Rudolf Koenig  
E: rlkoenig@inmd4.informatik.uni-erlangen.de  
D: The Linux Support Team Erlangen

N: Andreas Koensgen  
E: ajk@comnets.uni-bremen.de  
D: 6pack driver for AX.25

N: Harald Koerfgen  
E: hkoerfg@web.de  
D: Linux/MIPS kernel hacks and fixes,  
D: DECstation port, Sharp Mobilon port  
S: D-50931 Koeln  
S: Germany

N: Willy Konynenberg  
E: willy@xos.nl  
W: http://www.xos.nl/  
D: IP transparent proxy support  
S: X/OS Experts in Open Systems BV  
S: Kruislaan 419  
S: 1098 VA Amsterdam
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Company</th>
<th>Address</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goran Koruga</td>
<td><a href="mailto:korugag@siol.net">korugag@siol.net</a></td>
<td>Slovenia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jiri Kosina</td>
<td><a href="mailto:jikos@jikos.cz">jikos@jikos.cz</a></td>
<td>Prague, Czech Republic</td>
<td>Sangoma Technologies Inc.</td>
<td><a href="http://www.sangoma.com">http://www.sangoma.com</a></td>
</tr>
<tr>
<td>Gene Kozin</td>
<td><a href="mailto:74604.152@compuserve.com">74604.152@compuserve.com</a></td>
<td>Markham, Ontario</td>
<td>L3R 8B2</td>
<td></td>
</tr>
<tr>
<td>Maxim Krasnyansky</td>
<td><a href="mailto:maxk@qualcomm.com">maxk@qualcomm.com</a></td>
<td>Sangoma Technologies Inc.</td>
<td>7170 Warden Avenue, Unit 2</td>
<td><a href="http://vtun.sf.net">http://vtun.sf.net</a></td>
</tr>
<tr>
<td>Andreas S. Krebs</td>
<td><a href="mailto:akrebs@altavista.net">akrebs@altavista.net</a></td>
<td>Sangoma Technologies Inc.</td>
<td>San Jose, CA 95123</td>
<td></td>
</tr>
<tr>
<td>Greg Kroah-Hartman</td>
<td><a href="mailto:greg@kroah.com">greg@kroah.com</a></td>
<td>CYPRESS CY82C693 chipset IDE, Digital's PC-Alpha 164SX boards</td>
<td></td>
<td><a href="http://www.kroah.com/linux/">http://www.kroah.com/linux/</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:gregkh@suse.de">gregkh@suse.de</a></td>
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<td>USB Serial Converter driver framework, USB Handspring Visor driver</td>
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<td>ConnectTech WHITEHeat USB driver, Generic USB Serial driver</td>
</tr>
<tr>
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<td>USB I/O Edgeport driver, USB Serial IrDA driver</td>
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<td></td>
<td></td>
<td>USB Bluetooth driver, USB Skeleton driver</td>
</tr>
</tbody>
</table>
D: bits and pieces of USB core code.
D: PCI Hotplug core, PCI Hotplug Compaq driver modifications
D: portions of the Linux Security Module (LSM) framework
D: parts of the driver core, debugfs.

N: Russell Kroll
E: rkroll@exploits.org
W: http://www.exploits.org/
D: V4L radio cards: radio-aztech (new), others (bugfixes/features)
D: Loopback block device: dynamic sizing ("max_loop" as module)
S: Post Office Box 691886
S: San Antonio, Texas 78269-1886
S: USA

N: Denis O. Kropp
E: dok@directfb.org
D: NeoMagic framebuffer driver
S: Badensche Str. 46
S: 10715 Berlin
S: Germany

N: Andrzej M. Krzysztofowicz
E: ankry@mif.pg.gda.pl
D: Some 8-bit XT disk driver and devfs hacking
D: Aladdin 1533/1543(C) chipset IDE
D: PIIX chipset IDE
S: ul. Matemalewska 1B/10
S: 80-283 Gdansk
S: Poland

N: Gero Kuhlmann
E: gero@gkminix.han.de
D: mounting root via NFS
S: Donarweg 4
S: D-30657 Hannover
S: Germany

N: Markus Kuhn
E: mskuhn@cip.informatik.uni-erlangen.de
W: http://www.cip.informatik.uni-erlangen.de/user/mskuhn
D: Unicode, real-time, time, standards
S: Schlehenweg 9
S: D-91080 Uttenreuth
S: Germany

N: Jaya Kumar
E: jayalk@intworks.biz
W: http://www.intworks.biz
D: Arc monochrome LCD framebuffer driver, x86 reboot fixups
D: irq addr, CS5535 alsa audio driver
S: Gurgaon, India
S: Kuala Lumpur, Malaysia

N: Mohit Kumar
D: ST Microelectronics SPEAr13xx PCI host bridge driver
D: Synopsys DesignWare PCI host bridge driver

N: Gabor Kuti
E: seasons@falcon.sch.bme.hu
E: seasons@makosteszta.sote.hu
D: Original author of software suspend

N: Jaroslav Kysela
E: perex@perex.cz
W: http://www.perex.cz
D: Original Author and Maintainer for HP 10/100 Mbit Network Adapters
D: ISA PnP
S: Sindløvy Dvory 117
S: 370 01 Ceske Budejovice
S: Czech Republic

N: Bas Laarhoven
E: sjml@xs4all.nl
D: Loadable modules and ftape driver
S: J. Obrechtstr 23
S: NL-5216 GP 's-Hertogenbosch
S: The Netherlands

N: Ashley Lai
E: ashleydlai@gmail.com
D: IBM VTPM driver

N: Savio Lam
E: lam836@cs.cuhk.hk
D: Author of the dialog utility, foundation
D: for Menuconfig's lxdialog.

N: Christoph Lameter
E: christoph@lameter.com
D: Digiboard PC/Xe and PC/Xi, Digiboard EPCA
D: NUMA support, Slab allocators, Page migration
D: Scalability, Time subsystem

N: Paul Laufer
E: paul@laufer.net.com
D: Soundblaster driver fixes, ISAPnP quirk
S: California, USA

N: Jonathan Layes
D: ARPD support

N: Tom Lees
E: tom@lpsg.demon.co.uk
W: http://www.lpsg.demon.co.uk/
P: 1024/87D4D065 2A 66 86 9D 02 4D A6 1E  B8 A2 17 9D 4F 9B 89 D6
D: Original author and current maintainer of
D: PnP code.

N: David van Leeuwen
E: david@tm.tno.nl
D: Philips/LMS cm206 cdrom driver, generic cdrom driver
S: Scheltemalaan 14
S: 3817 KS Amersfoort
S: The Netherlands

N: Volker Lendecke
E: vl@kki.org
D: Kernel smbfs (to mount WfW, NT and OS/2 network drives.)
D: NCP filesystem support (to mount NetWare volumes)
S: Von-Ossietzky-Str. 12
S: 37085 Göttingen
S: Germany

N: Kevin Lentin
E: kevinl@cs.monash.edu.au
D: NCR53C400/T130B SCSI extension to NCR5380 driver.
S: 18 Board Street
S: Doncaster VIC 3108
S: Australia

N: Hans Lermen
E: lermen@elserv.ffm.fgan.de
D: Author of the LOADLIN Linux loader, hacking on boot stuff
D: Coordinator of DOSEMU releases
S: Am Muehlenweg 38
S: D53424 Remagen
S: Germany

N: Colin Leroy
E: colin@colino.net
W: http://www.geekounet.org/
D: PowerMac adt746x fan driver
D: Random fixing of various drivers (macintosh, usb, sound)
S: Toulouse
S: France

N: Achim Leubner
E: achim_leubner@adaptec.com
D: GDT Disk Array Controller/Storage RAID controller driver
S: ICP vortex GmbH
S: Neckarsulm
S: Germany

N: Phil Lewis
E: beans@bucket.ualr.edu
D: Promised to send money if I would put his name in the source tree.
S: Post Office Box 371
S: North Little Rock, Arkansas 72115
S: USA

N: Stephan Linz
E: linz@mazet.de
E: Stephan.Linz@gmx.de
W: http://www.crosswinds.net/~tuxer
D: PCILynx patch to work with 1394a PHY and without local RAM
S: (ask for current address)
S: Germany

N: Christophe Lizzi
E: lizzi@cnam.fr
W: http://cedric.cnam.fr/personne/lizzi
D: FORE Systems 200E-series ATM network driver, sparc64 port of ATM
S: CNAM, Laboratoire CEDRIC
S: 292, rue St-Martin
S: 75141 Paris Cedex 03
S: France

N: Siegfried "Frieder" Loeffler (dg1sek)
E: floeff@tunix.mathematik.uni-stuttgart.de, fl@LF.net
W: http://www.mathematik.uni-stuttgart.de/~floeff
D: Busmaster driver for HP 10/100 Mbit Network Adapters
S: University of Stuttgart, Germany and
S: Ecole Nationale Superieure des Telecommunications, Paris
S: France

N: Jamie Lokier
E: jamie@shareable.org
W: http://www.shareable.org/
D: Reboot-through-BIOS for broken 486 motherboards
D: Parport fixes, futex improvements
D: First instruction of x86 sysenter path :)
S: 51 Sunningwell Road
N: Mark Lord
E: mlord@pobox.com
D: EIDE driver, hd.c support
D: EIDE PCI and bus-master DMA support
D: Hard Disk Parameter (hdparm) utility
S: 33 Ridgefield Cr
S: Nepean, Ontario
S: Canada K2H 6S3

N: Warner Losh
E: imp@village.org
D: Linux/MIPS Deskstation support, Provided OI/OB for Linux
S: 8786 Niwot Road
S: Niwot, Colorado 80503
S: USA

N: Robert M. Love
E: rml@tech9.net
E: rml@novell.com
D: misc. kernel hacking and debugging
S: Cambridge, MA 02139
S: USA

N: Martin von Löwis
E: loewis@informatik.hu-berlin.de
D: script binary format
D: NTFS driver

N: H.J. Lu
E: hjl@gnu.ai.mit.edu
D: GCC + libraries hacker

N: Yanir Lubetkin
E: yanirx.lubatkin@intel.com
E: linux-wimax@intel.com
D: Intel Wireless WiMAX Connection 2400 driver

N: Michal Ludvig
E: michal@logix.cz
E: michal.ludvig@asterisk.co.nz
W: http://www.logix.cz/michal
P: 1024D/C45B2218 1162 6471 D391 76E0 9F99 29DA 0C3A 2509 C45B 2218
D: VIA PadLock driver
D: Netfilter pkttype module
N: Tuomas J. Lukka  
E: Tuomas.Lukka@Helsinki.FI  
D: Original dual-monitor patches  
D: Console-mouse-tracking patches  
S: Puistokaari 1 E 18  
S: 00200 Helsinki  
S: Finland  

N: Daniel J. Maas  
E: dmaas@dcine.com  
W: http://www.maasdigital.com  
D: dv1394  

N: Hamish Macdonald  
E: hamishm@lucent.com  
D: Linux/68k port  
S: 32 Clydesdale Avenue  
S: Kanata, Ontario  
S: Canada K2M-2G7  

N: Peter MacDonald  
D: SLS distribution  
D: Initial implementation of VC’s, pty’s and select()  

N: Pavel Machek  
E: pavel@ucw.cz  
P: 4096R/92DFCE96 4FA7 9EEF FCD4 C44F C585 B8C7 C060 2241 92DF CE96  
D: Softcursor for vga, hypertech cdrom support, vesa bugfix, nbd,  
D: sun4/330 port, capabilities for elf, speedup for rm on ext2, USB,  
D: work on suspend-to-ram/disk, killing duplicates from ioctl32,  
D: Altera SoC FPGA and Nokia N900 support.  
S: Czech Republic  

N: Paul Mackerras  
E: paulus@samba.org  
D: PPP driver  
D: Linux for PowerPC  
D: Linux port for PCI Power Macintosh  

N: Pat Mackinlay  
E: pat@it.com.au  
D: 8 bit XT hard disk driver  
D: Miscellaneous ST0x, TMC-8xx and other SCSI hacking  
S: 25 McMillan Street
S: Victoria Park 6100
S: Australia

N: James B. MacLean
E: macleajb@ednet.ns.ca
W: http://www.ednet.ns.ca/~macleajb/dosemu.html
D: Former Coordinator of DOSEMU releases
D: Program in DOSEMU
S: PO BOX 220, HFX. CENTRAL
S: Halifax, Nova Scotia
S: Canada B3J 3C8

N: Kai Mäkisara
E: Kai.Makisara@kolumbus.fi
D: SCSI Tape Driver

N: Asit Mallick
E: asit.k.mallick@intel.com
D: Linux/IA-64
S: 2200 Mission College Blvd
S: Santa Clara, CA 95052
S: USA

N: Petko Manolov
E: petkan@users.sourceforge.net
D: USB ethernet pegasus/pegasus-II driver
D: USB ethernet rtl8150 driver
D: optimizing i[45]86 string routines
D: i386 task switching hacks
S: 482 Shadowgraph Dr.
S: San Jose, CA 95110
S: USA

N: Martin Mares
E: mj@ucw.cz
W: http://www.ucw.cz/~mj/
D: BIOS video mode handling code
D: MOXA C-218 serial board driver
D: Network autoconfiguration
D: PCI subsystem
D: Random kernel hacking
S: Kankovskeho 1241
S: 182 00 Praha 8
S: Czech Republic

N: John A. Martin
E: jam@acm.org
W: http://www.tux.org/~jam/
N: Kevin E. Martin
E: martin@cs.unc.edu
D: Developed original accelerated X servers included in XFree86
D: XF86_Mach64
D: XF86_Mach32
D: XF86_Mach8
D: XF86_8514
D: cfdisk (curses based disk partitioning program)

N: John S. Marvin
E: jsm@fc.hp.com
D: PA-RISC port
S: Hewlett Packard
S: MS 42
S: 3404 E. Harmony Road
S: Fort Collins, CO 80528
S: USA

N: Torben Mathiasen
E: torben.mathiasen@compaq.com
E: torben@kernel.dk
W: http://tlan.kernel.dk
D: ThunderLAN maintainer
D: ThunderLAN updates and other kernel fixes.
S: Bremensgade 29, st.th
S: 2300 Copenhagen S
S: Denmark

N: Claudio S. Matsuoka
E: cmatsuoka@gmail.com
E: claudio@mandriva.com
W: http://helllabs.org/~claudio
D: V4L, OV511 and HDA-codec hacks
S: Conectiva S.A.
S: Souza Naves 1250
S: 80050-040 Curitiba PR
S: Brazil

N: Heinz Mauelshagen
E: mge@EZ-Darmstadt.Telekom.de
D: Logical Volume Manager
S: Bartningstr. 12
S: 64289 Darmstadt
S: Germany

N: Mark W. McClelland
E: mmcclell@bigfoot.com
E: mark@alpha.dyndns.org
W: http://alpha.dyndns.org/ov511/
P: 1024D/357375CC 317C 58AC 1B39 2AB0 AB96 EB38 0B6F 731F 3573 75CC
D: OV511 driver
S: (address available on request)
S: USA

N: Ian McDonald
E: ian.mcdonald@jandi.co.nz
E: imcdnz1@gmail.com
W: http://wand.net.nz/~iam4
W: http://imcdnz1.blogspot.com
D: DCCP, CCID3
S: Hamilton
S: New Zealand

N: Patrick McHardy
E: kaber@trash.net
P: 1024D/12155E80 B128 7DE6 FF0A C2B2 48BE AB4C C9D4 964E 1215 5E80
D: netfilter: endless number of bugfixes
D: netfilter: CLASSIFY target
D: netfilter: addrtype match
D: tc: HFSC scheduler
S: Freiburg
S: Germany

N: Paul E. McKenney
E: paulmck@us.ibm.com
W: http://www.rdrop.com/users/paulmck/
D: RCU and variants
D: rcutorture module

N: Mike McLagan
E: mike.mclagan@linux.org
W: http://www.invlogic.com/~mmclagan
D: DLCI/FRAD drivers for Sangoma SDLAs
S: Innovative Logic Corp
S: Post Office Box 1068
S: Laurel, Maryland 20732
S: USA

N: Bradley McLean
E: brad@bradpc.gaylord.com
D: Device driver hacker
D: General kernel debugger
S: 249 Nichols Avenue
S: Syracuse, New York 13206
S: USA

N: Kyle McMartin
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D: Linux/PARISC hacker
D: AD1889 sound driver
S: Ottawa, Canada

N: Dirk Melchers
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D: 8 bit XT hard disk driver for OMTI5520
S: Schloessleinsgasse 31
S: D-90453 Nuernberg
S: Germany

N: Arnaldo Carvalho de Melo
E: acme@kernel.org
E: arnaldo.melo@gmail.com
E: acme@redhat.com
P: 1024D/9224DF01 D5DF E3BB E3C8 BCBB F8AD 841A B6AB 4681 9224 DF01
D: tools/, IPX, LLC, DCCP, cyc2x, wl3501_cs, net/ hacks
S: Brazil

N: Karsten Merker
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D: DECstation framebuffer drivers
S: Germany

N: Michael Meskes
E: meskes@debian.org
P: 1024/04B6E8F5 6C 77 33 CA CC D6 22 03 AB AB 15 A3 AE AD 39 7D
D: Maintainer of several Debian packages
S: Th.-Heuss-Str. 61
S: D-41812 Erkelenz
S: Germany

N: Nigel Metheringham
E: Nigel.Metheringham@ThePLANet.net
P: 1024/31455639 B7 99 BD B8 00 17 BD 46 C1 15 B8 AB 87 BC 25 FA
D: IP Masquerading work and minor fixes
S: Planet Online
S: The White House, Melbourne Street, LEEDS
S: LS2 7PS, United Kingdom
N: Craig Metz
E: cmetz@inner.net
D: Some of PAS 16 mixer & PCM support, inet6-apps

N: William (Bill) Metzenthen
E: billm@suburbia.net
D: Author of the FPU emulator.
D: Minor kernel hacker for other lost causes (Hercules mono, etc).
S: 22 Parker Street
S: Ormond
S: Victoria 3163
S: Australia

N: Pauline Middelink
E: middelin@polyware.nl
D: General low-level bug fixes, /proc fixes, identd support
D: Author of IP masquerading
D: Zoran ZR36120 Video For Linux driver
S: Boterkorfhoeck 34
S: 7546 JA Enschede
S: Netherlands

N: David S. Miller
E: davem@davemloft.net
D: Sparc and blue box hacker
D: Vger Linux mailing list co-maintainer
D: Linux Emacs elf/qmagic support + other libc/gcc things
D: Yee bore de yee bore! ;-)
S: 575 Harrison St. #103
S: San Francisco, CA 94105
S: USA

N: Rick Miller
E: rdmiller@execpc.com
W: http://www.execpc.com/~rdmiller/
D: Original Linux Device Registrar (Major/minor numbers)
D: au-play, bwBASIC
S: S78 W16203 Woods Road
S: Muskego, Wisconsin 53150
S: USA

N: Harald Milz
E: hm@seneca.linux.de
D: Linux Projects Map, Linux Commercial-HOWTO
D: general Linux publicity in Germany, vacation port
D: UUCP and CNEWS binary packages for LST
S: Editorial Board iX Mag
S: Helstorfer Str. 7
S: D-30625 Hannover
S: Germany

N: Corey Minyard
E: minyard@wf-rch.cirr.com
E: minyard@mvista.com
W: http://home.attbi.com/~minyard
D: Sony CDU31A CDROM Driver
D: IPMI driver
D: Various networking fixes long ago
D: Original ppc_md work
D: Shared zlib
S: 7406 Wheat Field Rd
S: Garland, Texas 75044
S: USA

N: Kazunori Miyazawa
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E: kazunori@miyazawa.org
W: http://www.miyazawa.org/~kazunori/
D: IPsec, IPv6
D: USAGI/WIDE Project, Yokogawa Electric Corporation
S: 2-20-4-203, Nakacho,
S: Musashino, Tokyo 180-0006
S: Japan

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E: mochelp@infinity.powertie.org
D: PCI Power Management, ACPI work
S: 12725 SW Millikan Way, Suite 400
S: Beaverton, Oregon 97005
S: USA

N: Eberhard Mönkeberg
E: emoenke@gwdg.de
D: CDROM driver "sbpcd" (Matsushita/Panasonic/Soundblaster)
S: Ruhstrathöhe 2 b.
S: D-37085 Göttingen
S: Germany

N: Thomas Molina
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D: bug fixes, documentation, minor hackery

N: Paul Moore
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W: http://www.paul-moore.com
D: NetLabel, SELinux, audit

N: James Morris
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W: http://namei.org/
D: Netfilter, Linux Security Modules (LSM), SELinux, IPSec,
D: Crypto API, general networking, miscellaneous.
S: PO Box 707
S: Spit Junction NSW 2088
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N: David Mosberger-Tang
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D: Linux/Alpha and Linux/ia64
S: 35706 Runckel Lane
S: Fremont, California 94536
S: USA

N: Sam Mosel
E: sam.mosel@computer.org
D: Wacom Intuos USB Support
S: 22 Seaview St
S: Fullarton 5063
S: South Australia

N: Wolfgang Muees
E: wolfgang@iksw-muees.de
D: Auerswald USB driver

N: Paul Mundt
E: paul.mundt@gmail.com
D: SuperH maintainer

N: Ian A. Murdock
E: imurdock@gnu.ai.mit.edu
D: Creator of Debian distribution
S: 30 White Tail Lane
S: Lafayette, Indiana 47905
S: USA

N: Scott Murray
E: scottm@somanetworks.com
E: scott@spiteful.org
D: OPL3-SA2, OPL3-SA3 sound driver
D: CompactPCI hotplug core
D: Ziatech ZT5550 and generic CompactPCI hotplug drivers
S: Toronto, Ontario
S: Canada
N: Zwane Mwaikambo
E: zwanem@gmail.com
D: Various driver hacking
D: Lowlevel x86 kernel hacking
D: General debugging
S: (ask for current address)
S: Tanzania

N: Trond Myklebust
E: trond.myklebust@fys.uio.no
D: current NFS client hacker.
S: Dagaliveien 31e
S: N-0391 Oslo
S: Norway

N: Johan Myreen
E: jem@iki.fi
D: PS/2 mouse driver writer etc.
S: Dragonvagen 1 A 13
S: FIN-00330 Helsingfors
S: Finland

N: Matija Nalis
E: mnalis@jagor.srce.hr
E: mnalis@voyager.hr
D: Maintainer of the Umsdos file system
S: Listopadska 7
S: 10000 Zagreb
S: Croatia

N: Jonathan Naylor
E: g4klx@g4klx.demon.co.uk
E: g4klx@amsat.org
W: http://zone.pspf.fi/~jsn/
D: AX.25, NET/ROM and ROSE amateur radio protocol suites
D: CCITT X.25 PLP and LAPB.
S: 24 Castle View Drive
S: Cromford
S: Matlock
S: Derbyshire DE4 3RL
S: United Kingdom

N: Ian S. Nelson
E: nelsonis@earthlink.net
P: 1024D/00D3D983 3EFD 7B86 B888 D7E2 29B6  9E97 576F 1B97 00D3 D983
D: Minor mmap and ide hacks
S: 1370 Atlantis Ave.
S: Lafayette CO, 80026
S: USA

N: Russell Nelson
E: nelson@crynwr.com
W: http://www.crynwr.com/~nelson
P: 1024/83942741 FF 68 EE 27 A0 5A AA C3 F5 DC 05 62 BD 5B 20 2F
D: Author of cs89x0, maintainer of kernel changelog through 1.3.3
D: Wrote many packet drivers, from which some Ethernet drivers are derived.
S: 521 Pleasant Valley Road
S: Potsdam, New York 13676
S: USA

N: Dave Neuer
E: dave.neuer@pobox.com
D: Helped implement support for Compaq's H31xx series iPAQs
D: Other mostly minor tweaks & bugfixes

N: Michael Neuffer
E: mike@i-Connect.Net
E: neuffer@goofy.zdv.uni-mainz.de
W: http://www.i-Connect.Net/~mike/
D: Developer and maintainer of the EATA-DMA SCSI driver
D: Co-developer EATA-PIO SCSI driver
D: /proc/scsi and assorted other snippets
S: Zum Schiersteiner Grund 2
S: 55127 Mainz
S: Germany

N: Gustavo Niemeyer
E: niemeyer@conectiva.com
W: https://moin.conectiva.com.br/GustavoNiemeyer
D: wl3501 PCMCIA wireless card initial support for wireless extensions in 2.4
S: Conectiva S.A.
S: R. Tocantins 89
S: 80050-430 Curitiba PR
S: Brazil

N: David C. Niemi
E: niemi@tux.org
W: http://www.tux.org/~niemi/
D: Assistant maintainer of Mtools, fdutils, and floppy driver
S: 2364 Old Trail Drive
S: Reston, Virginia 20191
S: USA
N: Fredrik Noring
E: noring@nocrew.org
W: http://www.lysator.liu.se/~noring/
D: dsp56k device driver

N: Michael O'Reilly
E: michael@iinet.com.au
E: oreillym@tartarus.uwa.edu.au
D: Wrote the original dynamic sized disk cache stuff. I think the only
D: part that remains is the GFP_KERNEL et al #defines. :)
S: 192 Nicholson Road
S: Subiaco, 6008
S: Perth, Western Australia
S: Australia

N: Miguel Ojeda Sandonis
E: miguel.ojeda.sandonis@gmail.com
W: http://miguelojeda.es
W: http://jair.lab.fi.uva.es/~migojed/
D: Author of the ks0108, cfag12864b and cfag12864bfb auxiliary display drivers.
D: Maintainer of the auxiliary display drivers tree (drivers/auxdisplay/*)
S: C/ Mieses 20, 9-B
S: Valladolid 47009
S: Spain

N: Peter Oruba
D: AMD Microcode loader driver
S: Germany

N: Jens Osterkamp
E: jens@de.ibm.com
D: Maintainer of Spidernet network driver for Cell

N: Gadi Oxman
E: gadio@netvision.net.il
D: Original author and maintainer of IDE/ATAPI floppy/tape drivers

N: Greg Page
E: gpage@sovereign.org
D: IPX development and support

N: Venkatesh Pallipadi (Venki)
D: x86/HPET

N: David Parsons
E: orc@pell.chi.il.us
D: improved memory detection code.
N: Ivan Passos
E: ivan@cyclades.com
D: Author of the Cyclades-PC300 synchronous card driver
D: Maintainer of the Cyclom-Y/Cyclades-Z asynchronous card driver
S: Cyclades Corp
S: 41934 Christy St
S: Fremont, CA 94538
S: USA

N: Mikulas Patocka
E: mikulas@artax.karlin.mff.cuni.cz
W: http://artax.karlin.mff.cuni.cz/~mikulas/
P: 1024/BB11D2D5 A0 F1 28 4A C4 14 1E CF 92 58 7A 8F 69 BC A4 D3
D: Read/write HPFS filesystem
S: Weissova 8
S: 644 00 Brno
S: Czech Republic

N: Vojtech Pavlik
E: vojtech@suse.cz
D: Joystick driver
D: arcnet-hardware readme
D: Minor ARCnet hacking
D: USB (HID, ACM, Printer ...)
S: Ucitelska 1576
S: Prague 8
S: 182 00 Czech Republic

N: Rick Payne
D: RFC2385 Support for TCP

N: Barak A. Pearlmutter
E: bap@cs.unm.edu
W: http://www.cs.unm.edu/~bap/
P: 512/602D785D 9B A1 83 CD EE CB AD 93 20 C6 4C B7 F5 E9 60 D4
D: Author of mark-and-sweep GC integrated by Alan Cox
S: Computer Science Department
S: FEC 313
S: University of New Mexico
S: Albuquerque, New Mexico 87131
S: USA

N: Avery Pennarun
E: apenwarr@worldvisions.ca
W: http://www.worldvisions.ca/~apenwarr/
D: ARChernet driver
D: "make xconfig" improvements
D: Various minor hacking
S: RR #5, 497 Pole Line Road
S: Thunder Bay, Ontario
S: CANADA P7C 5M9

N: Inaky Perez-Gonzalez
E: inaky.perez-gonzalez@intel.com
E: linux-wimax@intel.com
E: inakypg@yahoo.com
D: WiMAX stack
D: Intel Wireless WiMAX Connection 2400 driver

N: Yuri Per
E: yuri@pts.mipt.ru
D: Some smbfs fixes
S: Demonstratsii 8-382
S: Tula 300000
S: Russia

N: Inaky Perez-Gonzalez
E: inaky.perez-gonzalez@intel.com
D: UWB stack, HWA-RC driver and HWA-HC drivers
D: Wireless USB additions to the USB stack
D: WiMedia Link Protocol bits and pieces

N: Gordon Peters
E: GordPeters@smarttech.com
D: Isochronous receive for IEEE 1394 driver (OHCI module).
D: Bugfixes for the aforementioned.
S: Calgary, Alberta
S: Canada

N: Johnnie Peters
E: jpeters@phx.mcd.mot.com
D: Motorola PowerPC changes for PReP
S: 2900 S. Diable Way
S: Tempe, Arizona 85282
S: USA

N: Kirk Petersen
E: kirk@speakeasy.org
W: http://www.speakeasy.org/~kirk/
D: implemented kmod
D: modularized BSD Unix domain sockets

N: Martin Kasper Petersen
E: mkp@mkp.net
D: PA-RISC port
D: XFS file system
D: kiobuf based block I/O work
S: 314 Frank St.
S: Ottawa, Ontario
S: Canada K2P 0X8

N: Mikael Pettersson
E: mikpelinux@gmail.com
D: Miscellaneous fixes

N: Reed H. Petty
E: rhp@draper.net
W: http://www.draper.net
D: Loop device driver extensions
D: Encryption transfer modules (no export)
S: Post Office Box 1815
S: Harrison, Arkansas 72602-1815
S: USA

N: Kai Petzke
E: petzke@teltarif.de
W: http://www.teltarif.de/
P: 1024/B42868C1 D9 59 B9 98 BB 93 05 38 2E 3E 31 79 C3 65 5D E1
D: Driver for Laser Magnetic Storage CD-ROM
D: Some kernel bug fixes
D: Port of the database Postgres
D: Book: "Linux verstehen und anwenden" (Hanser-Verlag)
S: Triftstr=DFe 55
S: 13353 Berlin
S: Germany

N: Emanuel Pirker
E: epirker@edu.uni-klu.ac.at
D: AIC5800 IEEE 1394, RAW I/O on 1394
D: Starter of Linux1394 effort
S: ask per mail for current address

N: Nicolas Pitre
E: nico@fluxnic.net
D: StrongARM SA1100 support integrator & hacker
D: Xscale PXA architecture
D: unified SMC 91C9x/91C11x ethernet driver (smc91x)
S: Montreal, Quebec, Canada

N: Ken Pizzini
E: ken@halcyon.com
D: CDROM driver "sonycd535" (Sony CDU-535/531)

N: Stelian Pop
E: stelian@popies.net
P: 1024D/EDBB6147 7B36 0E07 04BC 11DC A7A0  D3F7 7185 9E7A EDBB 6147
D: random kernel hacks
S: Paimpont, France

N: Pete Popov
E: pete_popov@yahoo.com
D: Linux/MIPS AMD/Alchemy Port and mips hacking and debugging
S: San Jose, CA 95134
S: USA

N: Matt Porter
E: mporter@kernel.crashing.org
D: Motorola PowerPC PReP support
D: ePCI PowerPC support
D: Embedded PowerPC 4xx/6xx/7xx/74xx support
S: Chandler, Arizona 85249
S: USA

N: Frederic Potter
E: fpotter@cirpack.com
D: Some PCI kernel support

N: Rui Prior
E: rprior@inescn.pt
D: ATM device driver for NICStAR based cards

N: Stefan Probst
E: sp@caldera.de
D: The Linux Support Team Erlangen, 1993-97
S: Caldera (Deutschland) GmbH
S: Lazarettstrasse 8
S: 91054 Erlangen
S: Germany

N: Giuliano Procida
E: myxie@debian.org,gprocida@madge.com
D: Madge Ambassador driver (Collage 155 Server ATM adapter)
D: Madge Horizon driver (Collage 25 and 155 Client ATM adapters)
P: 1024/93898735 D3 9E F4 F7 6D 8D 2F 3A  38 BA 06 7C 2B 33 43 7D
S: Madge Networks
S: Framewood Road
S: Wexham SL3 6PJ
S: United Kingdom

N: Richard Purdie
E: rpurdie@rpsys.net
D: Backlight subsystem maintainer
S: United Kingdom

N: Daniel Quinlan
E: quinlan@pathname.com
W: http://www.pathname.com/~quinlan/
D: FSSTND coordinator; FHS editor
D: random Linux documentation, patches, and hacks
S: 4390 Albany Drive #41A
S: San Jose, California 95129
S: USA

N: Juan Quintela
E: quintela@fi.udc.es
D: Memory Management hacking
S: LFCIA
S: Departamento de Computación
S: Universidade da Coruña
S: E-15071
S: A Coruña
S: Spain

N: Augusto Cesar Radtke
E: bishop@sekure.org
W: http://bishop.sekure.org
D: {copy,get,put}_user calls updates
D: Miscellaneous hacks
S: R. Otto Marquardt, 226 - Garcia
S: 89020-350 Blumenau - Santa Catarina
S: Brazil

N: Goutham Rao
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D: Linux/IA-64
S: 2200 Mission College Blvd
S: Santa Clara, CA 95052
S: USA

N: Anil Ravindranath
E: anil_ravindranath@pmc-sierra.com
D: PMC-Sierra MaxRAID driver

N: Eric S. Raymond
E: esr@thyrsus.com
W: http://www.tuxedo.org/~esr/
D: terminfo master file maintainer
D: Editor: Installation HOWTO, Distributions HOWTO, XFree86 HOWTO
D: Author: fetchmail, Emacs VC mode, Emacs GUD mode
S: 6 Karen Drive
S: Malvern, Pennsylvania 19355
S: USA

N: Stefan Reinauer
E: steapan@linux.de
W: http://www.freiburg.linux.de/~stepan/
D: Modularization of some filesystems
D: /proc/sound, minor fixes
S: Schlossbergging 9
S: 79098 Freiburg
S: Germany

N: Thomas Renninger
E: trenn@suse.de
D: cpupowerutils
S: SUSE Linux GmbH
S: Germany

N: Joerg Reuter
E: jreuter@yaina.de
W: http://yaina.de/jreuter/
W: http://www.qsl.net/d1bke/
D: Generic Z8530 driver, AX.25 DAMA slave implementation
D: Several AX.25 hacks

N: Ricardo Ribalda Delgado
E: ricardo.ribalda@gmail.com
W: http://ribalda.com
D: PLX USB338x driver
D: PCA9634 driver
D: Option GTM671WFS
D: Fintek F81216A
D: AD5761 iio driver
D: Various kernel hacks
S: Qtechnology A/S
S: Valby Langgade 142
S: 2500 Valby
S: Denmark

N: Francois-Rene Rideau
E: fare@tunes.org
W: http://www.tunes.org/~fare
D: petty kernel janitor (byteorder, ufs)
S: 6, rue Augustin Thierry
S: 75019 Paris
S: France

N: Rik van Riel
E: riel@redhat.com
W: http://www.surriel.com/
D: Linux-MM site, Documentation/sysctl/*, swap/mm readaround
D: kswapd fixes, random kernel hacker, rmap VM,
D: nl.linux.org administrator, minor scheduler additions
S: Red Hat Boston
S: 3 Lan Drive
S: Westford, MA 01886
S: USA

N: Pekka Riikonen
E: priikone@poseidon.pspt.fi
E: priikone@ssh.com
D: Random kernel hacking and bug fixes
D: International kernel patch project
S: Kasarmikatu 11 A4
S: 70110 Kuopio
S: Finland

N: Tobias Ringström
E: tori@unhappy.mine.nu
D: Davicom DM9102(A)/DM9132/DM9801 fast ethernet driver

N: Luca Risolia
E: luca.risolia@studio.unibo.it
P: 1024D/FCE635A4 88E8 F32F 7244 68BA 3958 5D40 99DA 5D2A FCE6 35A4
D: V4L driver for W996[87]CF JPEG USB Dual Mode Camera Chips
D: V4L2 driver for SN9C10x PC Camera Controllers
D: V4L2 driver for ET61X151 and ET61X251 PC Camera Controllers
D: V4L2 driver for ZC0301 Image Processor and Control Chip
S: Via Liberta' 41/A
S: Osio Sotto, 24046, Bergamo
S: Italy

N: William E. Roadcap
E: roadcapw@cfw.com
W: http://www.cfw.com/~roadcapw
D: Author of menu based configuration tool, Menuconfig.
S: 1407 Broad Street
S: Waynesboro, Virginia 22980
S: USA

N: Andrew J. Robinson
E: arobinso@nyx.net
W: http://www.nyx.net/~arobinso
D: Hayes ESP serial port driver

N: Florian La Roche
E: rzsfl@rz.uni-sb.de
E: flla@stud.uni-sb.de
D: Net programs and kernel net hacker
S: Gaißdorfer Str. 27
S: 7000 Stuttgart 50
S: Germany

N: Christoph Rohland
E: hans-christoph.rohland@sap.com
E: ch.rohland@gmx.net
D: shm fs, SYSV semaphores, af_unix
S: Neue Heimat Str. 8
S: D-68789 St.Leon-Rot
S: Germany

N: Thiago Berlitz Rondon
E: maluco@mileniumnet.com.br
W: http://vivaldi.linuxms.com.br/~maluco
D: Miscellaneous kernel hacker
S: R. Anhanguera, 1487 - Ipiranga
S: 79080-740 - Campo Grande - Mato Grosso do Sul
S: Brazil

N: Stephen Rothwell
E: sfr@canb.auug.org.au
P: 1024/BD8C7805 CD A4 9D 01 10 6E 7E 3B 91 88 FA D9 C8 40 AA 02
D: Boot/setup/build work for setup > 2K
D: Author, APM driver
D: Directory notification
S: 66 Maltby Circuit
S: Wanniassa ACT 2903
S: Australia

N: Gerard Roudier
E: groudier@free.fr
D: Contributed to asynchronous read-ahead improvement
S: 21 Rue Carnot
S: 95170 Deuil La Barre
S: France

N: Sebastien Rougeaux
E: Sebastien.Rougeaux@syseng.anu.edu.au
D: IEEE 1394 OHCI module
S: Research School of Information Science and Engineering
S: The Australian National University, ACT 0200
S: Australia
N: Aristeu Sergio Rozanski Filho  
E: aris@cathedrallabs.org  
D: Support for EtherExpress 10 ISA (i82595) in eepro driver  
D: User level driver support for input  
S: R. Jose Serrato, 130 - Santa Candida  
S: 82640-320 - Curitiba - Paraná  
S: Brazil  

N: Alessandro Rubini  
E: rubini@ipvvis.unipv.it  
D: the gpm mouse server and kernel support for it  

N: Philipp Rumpf  
E: prumpf@tux.org  
D: random bugfixes  
S: Drausnickstrasse 29  
S: 91052 Erlangen  
S: Germany  

N: Paul `Rusty' Russell  
E: rusty@rustcorp.com.au  
W: http://ozlabs.org/~rusty  
D: Ruggedly handsome.  
D: netfilter, ipchains with Michael Neuling.  
S: 52 Moore St  
S: Turner ACT 2612  
S: Australia  

N: Richard Russon (FlatCap)  
E: kernel@flatcap.org  
W: http://www.flatcap.org  
D: NTFS support  
D: LDM support (Win2000/XP Logical Disk Manager/Dynamic Disks)  
S: 50 Swansea Road  
S: Reading  
S: United Kingdom  

N: Bill Ryder  
E: bryder@sgi.com  
D: FTDI_SIO usb/serial converter driver  
W: http://reality.sgi.com/bryder_wellington/ftdi_sio  
S: 1/3 Walter St  
S: Wellington  
S: New Zealand  

N: Sampo Saaristo  
E: sambo@cs.tut.fi  
D: Co-author of Multi-Protocol Over ATM (MPOA)
S: Tampere University of Technology / Telecom lab
S: Hermiankatu 12C
S: FIN-33720 Tampere
S: Finland

N: Thomas Sailer
E: t.sailer@alumni.ethz.ch
E: HB9JNX@HB9W.CHE.EU (packet radio)
D: Baycom driver
S: Markusstrasse 18
S: 8006 Zuerich
S: Switzerland

N: Manuel Estrada Sainz
D: Firmware loader (request_firmware)

N: Wayne Salamon
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E: wsalamon@nai.com
D: portions of the Linux Security Module (LSM) framework and security modules

N: Robert Sanders
E: gt8134b@prism.gatech.edu
D: Dosemu

N: Duncan Sands
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W: http://topo.math.u-psud.fr/~sands
D: Alcatel SpeedTouch USB driver
S: 69 rue Dunois
S: 75013 Paris
S: France

N: Alekxa Sarai
E: cyphar@cyphar.com
W: https://www.cyphar.com/
D: `pids` cgroup subsystem

N: Dipankar Sarma
E: dipankar@in.ibm.com
D: RCU

N: Hannu Savolainen
E: hannu@opensound.com
D: Maintainer of the sound drivers until 2.1.x days.
D: Original compressed boot image support.
S: Valurink. 4A11
S: 03600 Karkkila
S: Finland
N: Deepak Saxena
E: dsaxena@plexity.net
D: I2O kernel layer (config, block, core, pci, net). I2O disk support for LILO
D: XScale(IOP, IXP) porting and other random ARM bits
S: Portland, OR

N: Eric Schenk
E: Eric.Schenk@dna.lth.se
D: Random kernel debugging.
D: SYSV Semaphore code rewrite.
D: Network layer debugging.
D: Dial on demand facility (diald).
S: Dag Hammerskjolds v. 3E
S: S-226 64 LUND
S: Sweden

N: Henning P. Schmiedehausen
E: hps@tanstaafl.de
D: added PCI support to the serial driver
S: Buckenhof, Germany

N: Michael Schmitz
E:
D: Macintosh IDE Driver

N: Peter De Schrijver
E: stud11@cc4.kuleuven.ac.be
D: Mitsumi CD-ROM driver patches March version
S: Molenbaan 29
S: B2240 Zandhoven
S: Belgium

N: Martin Schulze
E: joey@linux.de
W: http://home.pages.de/~joey/
D: Random Linux Hacker, Linux Promoter
D: CD-List, Books-List, Ex-FAQ
D: Linux-Support, -Mailbox, -Stammtisch
D: several improvements to system programs
S: Oldenburg
S: Germany

N: Robert Schwebel
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W: http://www.schwebel.de
D: Embedded hacker and book author,
D: AMD Elan support for Linux
S: Pengutronix
S: Braunschweiger Strasse 79
S: 31134 Hildesheim
S: Germany

N: Marcel Selhorst
E: tpmdd@selhorst.net
D: TPM driver

N: Darren Senn
E: sinister@darkwater.com
D: Whatever I notice needs doing (so far: timers, /proc)
S: Post Office Box 64132
S: Sunnyvale, California 94088-4132
S: USA

N: Stas Sergeev
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D: PCM PC-Speaker driver
D: misc fixes
S: Russia

N: Simon Shapiro
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W: http://www.-i-Connect.Net/~shimon
D: SCSI debugging
D: Maintainer of the Debian Kernel packages
S: 14355 SW Allen Blvd., Suite #140
S: Beaverton, Oregon 97008
S: USA

N: Mike Shaver
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W: http://www.hungry.org/~shaver/
D: MIPS work, /proc/sys/net, misc net hacking
S: 149 Union St.
S: Kingston, Ontario
S: Canada K7L 2P4

N: John Shifflett
E: john@geolog.com
E: jshiffle@netcom.com
D: Always IN2000 SCSI driver
D: wd33c93 SCSI driver (linux-m68k)
S: San Jose, California
S: USA
N: Robert Siemer
E: Robert.Siemer@gmx.de
P: 2048/C99A4289 2F DC 17 2E 56 62 01 C8 3D F2 AC 09 F2 E5 DD EE
D: miroSOUND PCM20 radio RDS driver, ACI rewrite
S: Klosterweg 28 / i309
S: 76131 Karlsruhe
S: Germany

N: James Simmons
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E: jsimmons@users.sf.net
D: Frame buffer device maintainer
D: input layer development
D: tty/console layer
D: various mipsel devices
S: 115 Carmel Avenue
S: El Cerrito CA 94530
S: USA

N: Jaspreet Singh
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W: www.sangoma.com
D: WANPIPE drivers & API Support for Sangoma S508/FT1 cards
S: Sangoma Technologies Inc.,
S: 1001 Denison Street
S: Suite 101
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S: Canada

N: Haavard Skinnemoen
M: Haavard Skinnemoen <hskinnemoen@gmail.com>
D: AVR32 architecture port to Linux and maintainer.

N: Rick Sladkey
E: jrs@world.std.com
D: utility hacker: Emacs, NFS server, mount, kmem-ps, UPS debugger, strace, GDB
D: library hacker: RPC, profil(3), realpath(3), regexp.h
D: kernel hacker: unnamed block devs, NFS client, fast select, precision timer
S: 24 Avon Place
S: Arlington, Massachusetts 02174
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N: Craig Small
E: csmall@triode.apana.org.au
E: vk2xlz@gonzo.vk2xlz.ampr.org (packet radio)
D: Gracilis PackeTwin device driver
D: RSPF daemon
S: 10 Stockalls Place
N: Stephen Smalley
E: sds@tycho.nsa.gov
D: portions of the Linux Security Module (LSM) framework and security modules

N: Chris Smith
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D: Read only HPFS filesystem

N: Christopher Smith
E: x@xman.org
D: Tulip net driver hacker

N: Mark Smith
E: mark.smith@comdev.cc
D: Multicast support in bonding driver

N: Miquel van Smoorenburg
E: miquels@cistron.nl
D: Kernel and net hacker. Sysvinit, minicom. doing Debian stuff.

N: Scott Snyder
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D: ATAPI cdrom driver

N: Leo Spiekman
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W: http://www.netlabs.net/hp/leo/
D: Optics Storage 8000AT cdrom driver

N: Manfred Spraul
E: manfred@colorfullife.com
W: http://www.colorfullife.com/~manfred
D: Lots of tiny hacks. Larger improvements to SysV IPC msg,
D: slab, pipe, select.
S: 71701 Schwieberdingen
S: Germany

N: Andrew Stanley-Jones
E: asj@lanmedia.com
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S: Sunnyvale, CA 94086
S: USA

N: Michael Still
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W: http://www.stillhq.com
D: Various janitorial patches
D: mandocs and mandocs_install build targets
S: (Email me and ask)
S: Australia

N: Henrik Storner
E: storner@image.dk
W: http://www.image.dk/~stornet/
W: http://www.sslug.dk/
D: Configure script: Invented tristate for module-configuration
D: vfat/msdos integration, kerneld docs, Linux promotion
D: Miscellaneous bug-fixes
S: Chr. Winthersvej 1 B, st.th.
S: DK-1860 Frederiksberg C
S: Denmark

N: Drew Sullivan
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W: http://www.ss.org/
P: 1024/ACFFA969 5A 9C 42 AB E4 24 82 31 99 56 00 BF D3 2B 25 46
D: iBCS2 developer
S: 22 Irvington Cres.
S: Willowdale, Ontario
S: Canada M2N 2Z1

N: Adam Sulmicki
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W: http://www.eax.com
D: core networking fixes
D: patch-kernel enhancements
D: misc kernel fixes and updates

N: Adrian Sun
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D: hfs support
D: alpha rtc port, random appletalk fixes
S: Department of Zoology, University of Washington
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N: Eugene Surovegin
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W: http://kernel.ebshome.net/
P: 1024D/AE5467F1 FF22 39F1 6728 89F6 6E6C 2365 7602 F33D AE54 67F1
D: Embedded PowerPC 4xx: EMAC, I2C, PIC and random hacks/fixes
S: Sunnyvale, California 94085
S: USA

N: Corey Thomas
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S: Northborough, MA 01532
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N: Doug Thompson
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D: EDAC

N: Tommy Thorn
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P: 512/B4AFC909 BC BF 6D B1 52 26 1E D6 E3 2F A3 2A 84 FE 21
D: Device driver hacker (aha1542 & plip)
S: IRISA
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S: F-35042 Rennes Cedex
S: France

N: Urs Thuermann
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D: Controller Area Network (network layer core)
S: Brieffach 1776
S: 38436 Wolfsburg
S: Germany

N: Jon Tombs
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W: http://www.esi.us.es/~jon
D: NFS mmap()
D: XF86_S3
D: Kernel modules
D: Parts of various other programs (xfig, open, ...)
S: C/ Federico Garcia Lorca 1 10-A
S: Sevilla 41005
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N: Linus Torvalds
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D: Original kernel hacker
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N: Marcelo Tosatti
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D: v2.4 kernel maintainer
S: Brazil

N: Stefan Traby
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D: Minor Alpha kernel hacks
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S: Austria

N: Jeff Tranter
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D: Enhancements to Joystick driver
D: Author of Sound HOWTO and CD-ROM HOWTO
D: Author of several small utilities
D: (bogomips, scope, eject, statserial)
S: 1 Laurie Court
S: Kanata, Ontario
S: Canada K2L 1S2

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D: dosemu, networking, samba
S: 3 Ballow Crescent
S: MacGregor A.C.T 2615
S: Australia

N: Josh Triplett
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P: 4096R/8AFF873D 758E 5042 E397 4BA3 3A9C 1E67 0ED9 A3DF 8AFF 873D
D: RCU and rcutorture
D: lock annotations, finding and fixing lock bugs
D: kernel tinification

N: Winfried Trümper
E: winni@xpilot.org
W: http://www.shop.de/~winni/
D: German HOWTO, Crash-Kurs Linux (German, 100 comprehensive pages)
D: CD-Writing HOWTO, various mini-HOWTOs
D: One-week tutorials on Linux twice a year (free of charge)
D: Linux-Workshop Köln (aka LUG Cologne, Germany), Installfests
S: Tacitusstr. 6
S: D-50968 Köln

N: Tsu-Sheng Tsao
E: tsusheng@scf.usc.edu
D: IGMP(Internet Group Management Protocol) version 2
S: 2F 14 ALY 31 LN 166 SEC 1 SHIH-PEI RD
S: Taipei
S: Taiwan 112
S: Republic of China
S: 24335 Delta Drive
S: Diamond Bar, California 91765
S: USA

N: Theodore Ts'o
E: tytso@mit.edu
D: Random Linux hacker
D: Maintainer of tsx-11.mit.edu ftp archive
D: Maintainer of c.o.l.* Usenet<>mail gateway
D: Author of serial driver
D: Author of the new e2fsck
D: Author of job control and system call restart code
D: Author of ramdisk device driver
D: Author of loopback device driver
D: Author of /dev/random driver
S: MIT Room E40-343
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S: Cambridge, Massachusetts 02139
S: USA

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D: Added swapping to filesystem
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N: Stephen Tweedie
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N: Thomas Uhl  
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D: Linux promoter  
D: Author of a German book on Linux  
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N: Jason Uhlenkott  
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D: I3000 EDAC driver

N: Greg Ungerer  
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D: uClinux kernel hacker  
D: Port uClinux to the Motorola ColdFire CPU  
D: Author of Stallion multiport serial drivers  
S: SnapGear Inc.  
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S: Woolloongabba, QLD. 4102  
S: Australia

N: Jeffrey A. Uphoff  
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P: 1024/9ED505C5 D7 BB CA AA 10 45 40 1B 16 19 0A C0 38 A0 3E CB  
D: Linux Security/Alert mailing lists' moderator/maintainer.  
D: NSM (rpc.statd) developer.  
D: PAM S/Key module developer.  
D: 'dip' contributor.  
D: AIPS port, astronomical community support.  
S: Transmeta Corporation  
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N: Matthias Urlichs  
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E: smurf@debian.org
E: matthias@urluchs.de
D: Consultant, developer, kernel hacker
D: In a previous life, worked on Streams/ISDN/BSD networking code for Linux
S: Schleiermacherstrasse 12
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N: Geert Uytterhoeven
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W: http://users.telenet.be/geertu/
P: 4096R/4804B4BC3F55EEFB 750D 82B0 A781 5431 5E25 925B 4804 B4BC 3F55 EEFB
D: m68k/Amiga and PPC/CHRP Longtrail coordinator
D: Frame buffer device and XF68_FBDev maintainer
D: m68k IDE maintainer
D: Amiga Zorro maintainer
D: Amiga Buddha and Catweasel chipset IDE
D: Atari Falcon chipset IDE
D: Amiga Gayle chipset IDE
D: mipsel NEC DDB Vrc-5074
S: Haterbeekstraat 55B
S: B-3200 Aarschot
S: Belgium

N: Chris Vance
E: cvance@tislabs.com
E: cvance@nai.com
D: portions of the Linux Security Module (LSM) framework and security modules

N: Petr Vandrovec
E: petr@vandrovec.name
D: Small contributions to ncifs
D: Matrox framebuffer driver
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S: Cupertino, CA 95014
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W: http://www.parisc-linux.org/~varenet/
P: 1024D/B7D2F063 E67C 0D43 A75E 12A5 BB1C FA2F 1E32 C3DA B7D2 F063
D: PA-RISC port minion, PDC and GSCPS2 drivers, debuglocks and other bits
D: Some ARM at91rm9200 bits, S1D13XXX FB driver, random patches here and there
D: AD1889 sound driver
S: Paris, France

N: Heikki Vatiainen
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D: Co-author of Multi-Protocol Over ATM (MPOA), some LANE hacks
S: Tampere University of Technology / Telecom lab
S: Hermiankatu 12C
S: FIN-33720 Tampere
S: Finland

N: Andrew Veliath
E: andrewtv@usa.net
D: Turtle Beach MultiSound sound driver
S: USA

N: Dirk Verworner
D: Co-author of German book `Linux-Kernel-Programmierung”
D: Co-founder of Berlin Linux User Group

N: Andrew Victor
E: linux@maxim.org.za
D: First maintainer of Atmel ARM-based SoC, aka AT91
D: Introduced support for at91rm9200, the first chip of AT91 family
S: South Africa

N: Riku Voipio
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D: Author of PCA9532 LED and Fintek f75375s hwmon driver
D: Some random ARM board patches
S: Finland

N: Patrick Volkerding
E: volkerdi@ftp.cdrom.com
D: Produced the Slackware distribution, updated the SVGAlib
D: patches for ghostscript, worked on color 'ls', etc.
S: 301 15th Street S.
S: Moorhead, Minnesota 56560
S: USA

N: Jos Vos
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W: http://www.xos.nl/
D: Various IP firewall updates, ipfwadm
S: X/OS Experts in Open Systems BV
S: Kruislaan 419
S: 1098 VA Amsterdam
S: The Netherlands

N: Jeroen Vreeken
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W: http://www.chello.nl/~j.vreeken/
D: SE401 usb webcam driver
D: ZD1201 usb wireless lan driver
S: Maastrichterweg 63
S: 5554 GG Valkenswaard
S: The Netherlands

N: Mark Wallis
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W: http://mark.serialmonkey.com
D: Ralink rt2x00 WLAN driver
S: Newcastle, Australia

N: Peter Shaobo Wang
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W: http://www.mmdcorp.com/pw/linux
D: Driver for Interphase ATM (i)Chip SAR adapter card family (x575, x525, x531).
S: 1513 Brewster Dr.
S: Carrollton, TX 75010
S: USA

N: Tim Waugh
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D: Co-architect of the parallel-port sharing system
S: 17 Curling Vale
S: GUILDFORD
S: Surrey
S: GU2 7PJ
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N: David Weinehall
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P: 1024D/DC47CA16 7ACE 0FB0 7A74 F994 9B36 E1D1 D14E 8526 DC47 CA16
W: http://www.acc.umu.se/~tao/
D: v2.0 kernel maintainer
D: Fixes for the NE/2-driver
D: Miscellaneous MCA-support
D: Cleanup of the Config-files

N: Matt Welsh
E: mdw@metalab.unc.edu
W: http://www.cs.berkeley.edu/~mdw
D: Original Linux Documentation Project coordinator
D: Author, "Running Linux" (O'Reilly)
D: Author, "Linux Installation and Getting Started" (LDP) and several HOWTOs
D: Linuxdoc-SGML formatting system (now SGML-Tools)
D: Device drivers for various high-speed network interfaces (Myrinet, ATM)
D: Keithley DAS1200 device driver
D: Original maintainer of sunsite WWW and FTP sites
D: Original moderator of c.o.l.announce and c.o.l.answers
S: Computer Science Division
S: UC Berkeley
S: Berkeley, CA 94720-1776
S: USA

N: Harald Welte
E: laforge@netfilter.org
P: 1024D/30F48BFF DBDE 6912 8831 9A53 879B 9190 5DA5 C655 30F4 8BFF
W: http://gnumonks.org/users/laforge
D: netfilter: new nat helper infrastructure
D: netfilter: ULOG, ECN, DSCP target
D: netfilter: TTL match
D: netfilter: IPv6 mangle table
D: netfilter: various other hacks
S: Berlin
S: Germany

N: Bill Wendling
E: wendling@ganymede.isdn.uiuc.edu
W: http://www.ncsa.uiuc.edu/~wendling/
D: Various random hacks. Mostly on poll/select logic.
S: 605 E. Springfield Ave.
S: Champaign, IL 61820
S: USA

N: Mike Westall
D: IBM Turboways 25 ATM Device Driver
E: westall@cs.clemson.edu
S: Department of Computer Science
S: Clemson University
S: Clemson SC 29634 USA

N: Greg Wettstein
E: greg@wind.rmcc.com
D: Filesystem valid flag for MINIX filesystem.
D: Minor kernel debugging.
D: Development and maintenance of sysklogd.
D: Monitoring of development kernels for long-term stability.
D: Early implementations of Linux in a commercial environment.
S: Dr. Greg Wettstein, Ph.D.
S: Oncology Research Division Computing Facility
S: Roger Maris Cancer Center
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S: Fargo, North Dakota 58122
S: USA

N: Steven Whitehouse
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W: http://www.chygwyn.com/~steve
D: Linux DECnet project
D: Minor debugging of other networking protocols.
D: Misc bug fixes and GFS2 filesystem development

N: Hans-Joachim Widmaier
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D: AFFS rewrite
S: Eichenweg 16
S: 73650 Winterbach
S: Germany

N: Urban Widmark
E: urban@svenskatest.se
D: via-rhine, misc net driver hacking

N: Marco van Wieringen
E: mvw@planets.elm.net
D: Author of process accounting and diskquota
S: Breeburgsingel 12
S: 2135 CN Hoofddorp
S: The Netherlands

N: Matthew Wilcox
E: matthew@wil.cx
D: Linux/PARISC hacker. Filesystem hacker. Random other hacking. Custom
D: PPC port hacking.

N: G"unter Windau
E: gunter@mbfys.kun.nl
D: Some bug fixes in the polling printer driver (lp.c)
S: University of Nijmegen
S: Geert-Grooteplein Noord 21
S: 6525 EZ Nijmegen
S: The Netherlands

N: Ulrich Windl
E: Ulrich.Windl@rz.uni-regensburg.de
P: 1024/E843660D CF D7 43 A1 5A 49 14 25 7C 04 A0 6E 4C 3A AC 6D
D: Supports NTP on Linux. Added PPS code. Fixed bugs in adjtimex().
S: Alte Regensburger Str. 11a
S: 93149 Nittenau
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N: Gertjan van Wingerde
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D: Ralink rt2x00 WLAN driver
D: Minix V2 file-system
D: Misc fixes
S: The Netherlands

N: Lars Wirzenius
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D: Linux System Administrator's Guide, author, former maintainer
D: comp.os.linux.announce, former moderator
D: Linux Documentation Project, co-founder
D: Original sprintf in kernel
D: Original kernel README (for version 0.97)
D: Linux News (electronic magazine, now dead), founder and former editor
D: Meta-FAQ, originator, former maintainer
D: INFO-SHEET, former maintainer
D: Author of the longest-living linux bug

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D: Mylex DAC960 PCI RAID driver
D: Miscellaneous kernel fixes

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D: ZyXEL omni.net lcd plus driver
D: RTC subsystem
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W: http://www.misterjones.org
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D: EISA/sysfs subsystem
S: France

# Don't add your name here, unless you really _are_ after Marc
# alphabetically. Leonard used to be very proud of being the
# last entry, and he'll get positively pissed if he can't even
# be second-to-last. (and this file really _is_ supposed to be
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/*
* Asynchronous Compression operations
*
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*           Giovanni Cabiddu <giovanni.cabiddu@intel.com>
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* any later version.
* */

1.2107 supervisor 3.3.1-1.1

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1.2110 https-proxy-agent 5.0.0

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https-proxy-agent
============

### An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)
This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

### Installation

Install with `npm`:

```bash
$ npm install https-proxy-agent
```

### Examples

#### `https` module example

```javascript
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
```
```js
var url = require('url);
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log("open" event!);
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log("message" event! %j %j, data, flags);
  socket.close();
});
```

### `ws` WebSocket connection example

```js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log("open" event!);
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log("message" event! %j %j, data, flags);
  socket.close();
});
```

---

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP ‘CONNECT’ method][CONNECT].
The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()` / `tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
    Valid   bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

Data model artifacts for Prometheus.
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Go support for Protocol Buffers - Google's data interchange format

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package spec

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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 */

package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"

    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

type objectLegalHold struct {
    XMLNS string     `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name `xml:"LegalHold"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \%v\", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
```go
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    }

    // Execute PUT Object Legal Hold.
    resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
    defer closeResponse(resp)
    if err != nil {
        return err
    }
    if resp != nil {
            return httpResponseToErrorResponse(resp, bucketName, objectName)
        }
    }
    return nil
}
```
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (*LegalHoldStatus, error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:      bucketName,
        objectName:      objectName,
        queryValues:     urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }

    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }

    lh := &objectLegalHold{};
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}

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55. TypeScript-TmLanguage version 0.1.8 (https://github.com/Microsoft/TypeScript-TmLanguage)
56. vscode-swift version 0.0.1 (https://github.com/owensd/vscode-swift)

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1.2160 go-yaml 0.0+git20170407.0.cd8b52f-1ubuntu2

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1.2161 github.com/bwplotka/minio-go/v7
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*/
package minio
import (
"bytes"
"context"
"encoding/xml"
"fmt"
"net/http"
"net/url"
"github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (
// LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"

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// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v\`, status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    //
lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ",")
if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
def closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{
        if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
            return nil, err
        }

        return &lh.Status, nil
    }

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# This is the official list of people who can contribute
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# The AUTHORS file lists the copyright holders; this file
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#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

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1.2163 x-oauth2 0.0.0-20211104180415-d3ed0bb246c8

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1.2169 btree 1.0.0

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1.2174 ruby-power-assert 0.3.0 1

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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)
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2181 sqlhooks 1.3.0

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1.2184 iputils 20161105 1ubuntu3

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1.2194 assertion-error 1.1.0

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# AssertionError ![Build Status](https://travis-ci.org/chaijs/assertion-error.png?branch=master)

> Error constructor for test and validation frameworks that implements standardized AssertionError specification.

## Installation

### Node.js

`assertion-error` is available on [npm](http://npmjs.org).

$ npm install assertion-error

### Component

`assertion-error` is available as a [component](https://github.com/component/component).

$ component install chaijs/assertion-error
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```

**1.2195 isort 4.3.4+ds1-1**

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1.2196 libasounddata 1.1.3-5ubuntu0.6

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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.

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

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

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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.

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# This timer is only activated when on a GCP Ubuntu LTS instance that is not # already using Ubuntu Advantage services (via ua-license-check.path). # This timer triggers a service that will poll the metadata for a GCP instance. # If the user has added an Ubuntu Pro license to the instance, it will # activate Ubuntu Advantage services.

[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check job should run periodically on gcp generic lts

Given a `<release>` machine with ubuntu-advantage-tools installed
# verify its enabled
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# run it and verify that it didn't disable itself
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# verify attach disables it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
And I wait `5` seconds
When I run `ua detach --assume-yes` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify detach enables it
When I run `ua detach --assume-yes` with sudo
And I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# verify stopping and deleting marker file and stopping disables it
# We need to call stop both before and after rm-ing the marker file
because at least one version of systemd requires it before (245.4-4ubuntu3.11 on focal gcp), and every other tested version of systemd requires it after. But this is only necessary when manually running the steps or in this test. `disable_license_checks_if_applicable` works fine with only calling stop after, as evidenced by the "verify attach disables it" steps above passing on focal gcp.

When I run `systemctl stop ua-license-check.timer` with sudo
When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
When I run `systemctl stop ua-license-check.timer` with sudo
Then I verify the `ua-license-check` systemd timer is disabled

# verify creating marker file enables it
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
Examples: version
| release |
| xenial |
| bionic |
| focal |

@series.hirsute
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check is disabled gcp generic non lts
Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version
| release |
| hirsute |

@series.all
@uses.config.contract_token
@uses.config.machine_type.lxd.container
@uses.config.machine_type.lxd.vm
@uses.config.machine_type.aws.generic
@uses.config.machine_type.azure.generic
Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
When I reboot the `<release>` machine
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past 5 seconds OR is scheduled to run within 10 minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait 5 seconds
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` with sudo exits 0
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` with sudo exits 1
Then I verify the `ua-license-check` systemd timer is disabled

# verify attach and detach does not enable it
When I wait 5 seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait 5 seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version
<table>
<thead>
<tr>
<th>release</th>
</tr>
</thead>
<tbody>
<tr>
<td>xenial</td>
</tr>
<tr>
<td>bionic</td>
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<tr>
<td>focal</td>
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<tr>
<td>hirsute</td>
</tr>
<tr>
<td>impish</td>
</tr>
<tr>
<td>jammy</td>
</tr>
</tbody>
</table>

@series.lts
@uses.config.machine_type.aws.pro
@uses.config.machine_type.azure.pro
@uses.config.machine_type.gcp.pro

Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
```
contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
```
When I run `ua auto-attach` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past 5 seconds OR is scheduled to run
Within `10` minutes
   When I run `systemctl start ua-license-check.service` with `sudo`
   When I wait `5` seconds
   Then I verify the `ua-license-check` systemd timer is disabled

Examples: version
    |
    | release |
    | xenial |
    | bionic |
    | focal |

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
Source: https://github.com/CanonicalLtd/ubuntu-advantage-script

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Public License version 3 can be found in "/usr/share/common-licenses/GPL-3".
# The marker file used here is only created when on a GCP Ubuntu LTS instance
# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py

1.2208 zlib 1.2.11

1.2208.1 Available under license :

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

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*/
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1.2209 ansible-lint 4.2.0
1.2209.1 Available under license:
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1.2210 jetty 9.4.16.v20190411
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Eclipse
The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
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import (
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    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,

        // BSD license, which is compatible, is embedded in the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

        "third_party/pkgsite/print_type.go": true,
    }

```
"third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if skip[path] {
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}
```

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1.2213 mkdirp-infer-owner 2.0.0
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package cloud

import ( "bytes" "io/ioutil" "os" "path/filepath" "strings" "testing" )

var sentinels = []string{ "Copyright", "Google", "Licensed under the Apache License, Version 2.0 (the "License");", }

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbt/doc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
 src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}
}

1.2215 blinker 1.4
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1.2216 sudo 1.8.21p2 3ubuntu1.4

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

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
Bostley, P.J.
Bones, Keith
Boyce, Keith Garry
Brandley, Michael
Braun, Rob
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Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
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ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Hayman, Randy M.
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Hieb, Dave
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Hutchings, Ben
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Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
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King, Michael
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Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
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Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanzchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
1.2217 nginx-core 1.14.0-0ubuntu1.9

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1.2218 json-stringify-nice 1.1.4

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1.2227 lua 5.2.4

1.2228 gopkg-in/mail 2.3.1
1.2228.1 Available under license:
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1.2230 pyasn1 0.4.8

1.2230.1 Available under license :

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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Classifier: Programming Language :: Python :: 3.7
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

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POSSIBILITY OF SUCH DAMAGE.
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 3.7
* 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.
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()
```
```python
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321

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
```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())

```python
```python
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```

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:

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```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.org/project/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](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/test_encoder.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_string.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_string.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/__main__.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/test_pair.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/copy.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/__main__.py
* /opt/ cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/copy.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/__main__.py
* /opt/cola/permits/110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/test_pair.py
ASN.1 library for Python

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> 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.org/project/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 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 or 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::
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.
1.2231 squirrel 1.5.2

1.2231.1 Available under license:

Squirrel
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1.2232 libio-socket-ssl-perl 2.060-3~ubuntu18.04.1

1.2232.1 Available under license:

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

=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

use strict;
use IO::Socket::SSL;
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\n\n";
print <$cl>;

my $srv = IO::Socket::SSL->new(
    LocalAddr => '0.0.0.0:1234',
    Listen => 10,
    SSL_cert_file => 'server-cert.pem',
    SSL_key_file => 'server-key.pem',
);
$srv->accept;

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary
functionality into the familiar L<IO::Socket> interface and providing secure
defaults whenever possible.
This way, existing applications can be made SSL-aware without much effort, at
least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.
So there are lots of methods to make it do what you need if the default
behavior is not adequate.
Because it is easy to inadvertently introduce critical security bugs or just
hard to debug problems, I would recommend studying the following
documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L</"Essential Information About SSL/TLS">

=item * L</"Basic SSL Client">

=item * L</"Basic SSL Server">

=item * L</"Common Usage Errors">

=item * L</"Common Problems with SSL">

=item * L</"Using Non-Blocking Sockets">

=item * L</"Advanced Usage">

=item * L</"Integration Into Own Modules">
Additional documentation can be found in

- L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL
- L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing web sites (https), delivering or retrieving email, and in lots of other use cases.
In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.
If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.
All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.
Thus Mallory would be able to read and modify all traffic between Alice and Bob.

Identification is the part which is the hardest to understand and the easiest to get wrong.
With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).
These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

* Get the certificate from the peer.
  If the peer does not present a certificate we cannot verify it.

* Check if we trust the certificate, e.g. make sure it's not a forgery.
  We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.
  In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.
  In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.
  Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuers signature.

  This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

* Check if the certificate is still valid.
  Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

* Check if the subject of the certificate matches the peer.
  This is like comparing the picture on the identity card against the person representing the identity card.
When connecting to a server this is usually done by comparing the hostname used for connecting against the names represented in the certificate. A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer. This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity. Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP. With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date. With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to. But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

    my $client = IO::Socket::SSL->new('www.example.com:443')
    or die "error=$!, ssl_error=SSL_ERROR";

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems. If there are no certificates in the store it will try use Mozilla::CA which
provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.

It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```perl
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
    # explicitly set hostname we should use for SNI
    SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```perl
my $client = IO::Socket::SSL->new(
    # where to connect
    PeerHost => "www.example.com",
    PeerPort => "https",

    # certificate verification - VERIFY_PEER is default
    SSL_verify_mode => SSL_VERIFY_PEER,

    # location of CA store
    # need only be given if default store should not be used
    SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
    SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

    # or just use default path on system:
    IO::Socket::SSL::default_ca(), # either explicitly
    # or implicitly by not giving SSL_ca_*

    # easy hostname verification
    # It will use PeerHost as default name a verification
```
# scheme as default, which is safe enough for most purposes.
SSL_verifycn_name => 'foo.bar',
SSL_verifycn_scheme => 'http',

# SNI support - defaults to PeerHost
SSL_hostname => 'foo.bar',

) or die "failed connect or ssl handshake: $!,$SSL_ERROR";

# send and receive over SSL connection
print $client "GET / HTTP/1.0\r\n\n";
print <$client>;

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

# default will try OCSP stapling and check only leaf certificate
my $client = IO::Socket::SSL->new($dst);

# better yet: require checking of full chain
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
);

# even better: make OCSP errors fatal
# (this will probably fail with lots of sites because of bad OCSP setups)
# also use common OCSP response cache
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
SSL_ocsp_cache => $ocsp_cache,
);

# disable OCSP stapling in case server has problems with it
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
warn "OCSP verification failed: $errors";
}
close($client);
}

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:

```perl
# simple server
my $server = IO::Socket::SSL->new(
    # where to listen
    LocalAddr => '127.0.0.1',
    LocalPort => 8080,
    Listen => 10,

    # which certificate to offer
    # with SNI support there can be different certificates per hostname
    SSL_cert_file => 'cert.pem',
    SSL_key_file => 'key.pem',
)
```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.

We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```perl
# inet server
my $server = IO::Socket::INET->new(
    # where to listen
    LocalAddr => '127.0.0.1',
    LocalPort => 8080,
    Listen => 10,
)
```

```perl
# accept client
my $client = $server->accept or die;
```

```perl
# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
```
SSL_server => 1,
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";

Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.
A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places). Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by L<IO::Socket::SSL>. If necessary these can be checked with the C<default_ca> method.

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a syscall to read one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a sysread for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further sysreads will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block) you must check if there are still data in the current SSL frame by calling C<pending> and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to sysread at least 16kByte all the time. 16kByte is the maximum size of an SSL frame and because sysread returns data from only a single SSL frame you can guarantee that there are no pending data.

See also L</"Using Non-Blocking Sockets">.

Expecting exactly the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is
explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.
But, there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or
implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug. Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of L<IO::Socket::SSL> and L<Net::SSLeay>, which can both be set with C<$IO::Socket::SSL::DEBUG>.

The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

=item *

2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.

=item *

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.
Also, C<analyze-ssl.pl> from the ssl-tools repository at
L<https://github.com/noxxi/p5-ssl-tools> might be a helpful tool when debugging
SSL problems, as do the C<openssl> command line tool and a check with a
different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary
certificates into their server setup, e.g. everything needed to build the trust
chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers
work around these problems by caching any intermediate certificates and apply
them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot
fill in the missing certificates and fail to verify; the same is true with
L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS
versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection
inside the SSL handshake. This can usually be worked around by downgrading the
SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with
such servers by automatically downgrading the SSL version and repeat the
connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just
drop the relevant packet. This is harder to detect because it looks like a
stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which
have hardware acceleration and only a minimal (and less robust) SSL stack. They
can often be detected because they support much fewer ciphers than other
implementations.
Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>), that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read.
In these cases C<$!> is set to EAGAIN like expected, and additionally
C<$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE.
Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for
SSL_WANT_* and adapt your event mask accordingly.

Using readline on non-blocking sockets does not make much sense and I would
advise against using it.
And, while the behavior is not documented for other L<IO::Socket> classes, it
will try to emulate the behavior seen there, e.g. to return the received data
instead of blocking, even if the line is not complete. If an unrecoverable error
occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object
because it might block and this is not what most would expect. The reason for
this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET...,) results in a new TCP socket which does not inherit the
non-blocking behavior of the master socket. And thus, the initial SSL handshake
on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking
way. To work around this you are safer by doing a TCP accept and later upgrade the
TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

    my $cl = IO::Socket::SSL->new($dst);
    $cl->blocking(0);
    my $sel = IO::Select->new($cl);
    while (1) {
      # with SSL a call for reading n bytes does not result in reading of n
      # bytes from the socket, but instead it must read at least one full SSL
      # frame. If the socket has no new bytes, but there are unprocessed data
      # from the SSL frame can_read will block!

      # wait for data on socket
      $sel->can_read();

      # new data on socket or eof
      READ:
      # this does not read only 1 byte from socket, but reads the complete SSL
      # frame and then just returns one byte. On subsequent calls it than
      # returns more byte of the same SSL frame until it needs to read the
      # next frame.
      my $n = sysread( $cl,my $buf,1);
      if ( ! defined $n ) {
        die $! if not ${EWOULDBLOCK};
        next if $SSL_ERROR == SSL_WANT_READ;
        if ( $SSL_ERROR == SSL_WANT_WRITE ) {
          # need to write data on renegotiation
          $sel->can_write;
          next;
        }
    }
Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available. Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering B<pending()> need to be used. Alternatively the buffering can be avoided by using B<sysread> with the maximum size of an SSL frame. See L</"Common Usage Errors"> for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in L<IO::Socket::SSL>.

With a supported version, SNI is used automatically on the client side, if it can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms in the underlying IO::Socket:: classes and thus should never be set both or at least not to different values).

On unsupported OpenSSL versions it will silently not use SNI.

The hostname can also be given explicitly given with C<SSL_hostname>, but in this case it will throw in error, if SNI is not supported.

To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together with L<Net::SSLeay> version >= 1.50.

To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.

If server side SNI is supported, you might specify different certificates per host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using C<get_servername>.
Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use `start_SSL` to upgrade and `stop_SSL` to downgrade:

```perl
my $sock = IO::Socket::INET->new(...) or die $!
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from `IO::Socket::INET`. While this base class can be replaced with `IO::Socket::SSL`, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, `IO::Socket::SSL` can be reduced to a plain socket on startup, and `connect_SSL/accept_SSL/start_SSL` can be used to enable SSL and `stop_SSL` to talk plain again:

```perl
my $sock = IO::Socket::SSL->new( PeerAddr => ...
SSL_startHandshake => 0,
%sslargs
) or die $!
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

Integration Into Own Modules

`IO::Socket::SSL` behaves similarly to other `IO::Socket` modules and thus could be integrated in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll.

Please study the documentation on how to deal with these differences.
Also, it is recommended to not set or touch most of the C<SSL_*> options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>. This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module. The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module. With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.

To avoid these problems you can enforce IPv4 for a specific socket by using the C<Domain> or C<Family> option with the value AF_INET as described in L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4 only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to
provide additional arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set. If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error. Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below. If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server. If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to "."

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake
If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificate(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C<;> on DOS, Windows, Netware, C<,> on VMS and C<?>> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will be added to the CA store before path and file and thus take precedence. If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults. If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<undef> or SSL_ca to an empty list. (unfortunately C"" is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select their required certificate from a list of certificates. The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate as C<algo$hex_fingerprint>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the
hexadecimal representation of the binary fingerprint. If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax C<\algo$pub$hex_fingerprint> instead. To get the fingerprint of an established connection you can use C<get_fingerprint>.

You can specify a list of fingerprints in case you have several acceptable certificates. If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which should be verified by the client. Same is true for client certificates, which should be verified by the server. The certificate can be given as a file with SSL_cert_file or as an internal representation of an X509* object (like you get from L<Net::SSL::SSL_CTX::get_cert> or L<Net::SSL::SSL_CTX::get_key>) with SSL_key. If given as a file it will automatically detect the format. Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with SSL_key_file or as an internal representation of an EVP_PKEY* object with SSL_key (like you get from L<Net::SSL::SSL_CTX::get_key>). If a key was already given within the PKCS#12 file specified by SSL_cert_file it will ignore any SSL_key or SSL_key_file. If no SSL_key or SSL_key_file was given it will try to use the PEM file given with SSL_cert_file again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with C<<hostname => cert_file>>.

In case certs and keys are needed but not given it might fall back to built-in defaults, see "Defaults for Cert, Key and CA".

Examples:
SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

SSL_cert_file => {
    "foo.example.org" => 'foo-cert.pem',
    "bar.example.org" => 'bar-cert.pem',
    # used when nothing matches or client does not support SNI
    "" => 'default-cert.pem',
}
SSL_key_file => {
    "foo.example.org" => 'foo-key.pem',
    "bar.example.org" => 'bar-key.pem',
    # used when nothing matches or client does not support SNI
    "" => 'default-key.pem',
}

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.
For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data. 'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1' or 'TLSv1_2' restrict handshake and protocol to the specified version.
All values are case-insensitive. Instead of 'TLSv1_1' and 'TLSv1_2' one can also use 'TLSv11' and 'TLSv12'. Support for 'TLSv1_1' and 'TLSv1_2' requires recent versions of Net::SSLeay and openssl.

Independent from the handshake format you can limit to set of accepted SSL versions by adding !version separated by '!'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful
handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.
You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need an SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'. Look into the OpenSSL documentation (L<http://www.openssl.org/docs/apps/ciphers.html#CIPHER_STRINGS>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.
To use the less secure OpenSSL builtin default (whatever this is) set SSL_cipher_list to ".

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

If you want Diffie-Hellman key exchange you need to supply a suitable file here or use the SSL_dh parameter. See dhparam command in openssl for more information.
To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve.

If neither C<SSL_dh_file> nor C<SSL_dh> is set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh>
Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=ITEM SSL_ecdh_curve

If you want Elliptic Curve Diffie-Hellmann key exchange you need to supply the OID or NID of a suitable curve (like 'prime256v1') here.
To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve.

This parameter defaults to 'prime256v1' (builtin of OpenSSL) to offer ECDH key exchange by default. If you don't want this explicitly set it to undef.

You can check if ECDH support is available by calling C<< IO::Socket::SSL->can_ecdh >>.

=ITEM SSL_verify_mode

This option sets the verification mode for the peer certificate.
You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT (fail verification if no peer certificate exists; ignored for clients), SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client certificate) and SSL_VERIFY_PEER for client (check server certificate).

=ITEM SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along with this parameter to do so. When the callback is called, it will be passed:

=OVER 4

=ITEM 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=ITEM 2.
a C-style memory address of the certificate store,

=ITEM 3.
a string containing the certificate's issuer attributes and owner attributes, and
=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to
PEM form with Net::SSL::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the
certificate is valid or invalid. The default is to let OpenSSL do all of the
busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

=item SSL_verifycn_scheme

The scheme is used to correctly verify the identity inside the certificate
by using the hostname of the peer.
See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if
the name verification fails instead of letting the whole certificate
verification fail. THIS WILL CHANGE, e.g. it will let the certificate
verification fail in the future if the hostname does not match the certificate
!!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the
hostname in common name and subjectAltName and allow wildcards everywhere.
While using this scheme is way more secure than no name verification at all you
better should use the scheme specific to your application protocol, e.g. 'http',
'ftp'...

If you are really sure, that you don't want to verify the identity using the
hostname you can use 'none' as a scheme. In this case you'd better have
alternative forms of verification, like a certificate fingerprint or do a manual
verification later by calling B<verify_hostname> yourself.

=item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking wildcards certificates
for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should
be accepted, while *.example.com or *.example.co.uk is ok.
If not specified it will simply use the builtin default of
L<IO::Socket::SSL::PublicSuffix>, you can create another object with
from_string or from_file of this module.

To disable verification of public suffix set this option to C"".

=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme
is set and no SSL_verifycn_name is given it will try to use SSL_hostname or
PeerHost and PeerAddr settings and fail if no name can be determined.
If SSL_verifycn_scheme is not set it will use a default scheme and warn if it
cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly
with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded
with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or
B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the peer certificate has not been revoked
by the signing authority, set this value to true. OpenSSL will search
for the CRL in your SSL_ca_path, or use the file specified by
SSL_crl_file. See the Net::SSLeay documentation for more details.
Note that this functionality appears to be broken with OpenSSL <
v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the
pathname to be used. This must be used in addition to setting
SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation
Protocol). The default is to send a request for OCSP stapling to the server and
if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE
Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE
Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

=item SSL_OCSP_MUST_STAPLE
Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD
Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN
This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback
If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>.
If the peer did not provide a stapled OCSP response the function will be called with C<$resp=undef>.
Because the OCSP response handle is no longer valid after leaving this function it should not be copied or freed. If access to the response is necessary after leaving this function it can be serialized with C<<Net::SSLeay::i2d_OCSP_RESPONSE>>.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.
=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could
be shared between different SSL contexts. If not given a cache specific to the
SSL context only will be used.

You can either create a new cache with
C<< IO::Socket::SSL::OCSP_Cache->new({size}) >> or implement your own cache,
which needs to have methods C<put($key,%entry)> and C<get($key)> (returning
C<%entry>) where entry is the hash representation of the OCSP response with
fields like C<nextUpdate>. The default implementation of the cache will consider
responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of
IO::Socket::SSL, then you can reuse the SSL context of that instance by passing
it as the value for the SSL_reuse_ctx parameter. You may also create a
new instance of the IO::Socket::SSL::SSL_Context class, using any context
options that you desire without specifying connection options, and pass that
here instead.

If you use this option, all other context-related options that you pass
in the same call to new() will be ignored unless the context supplied was
invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a
global SSL context will not be implicitly used unless you use the
set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it
got created and the default setup was done.
The callback will be called with the CTX object from Net::SSLeay as the single
argument.

Example for limiting the server session cache size:

    SSL_create_ctx_callback => sub {
        my $ctx = shift;
        Net::SSLeay::CTX_sess_set_cache_size($ctx,128);
    }

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation
time is an issue, you can turn on client-side session caching with this option
by specifying a positive cache size. For successive connections, pass the
SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make use of the cached sessions. The session cache size refers to the number of unique host/port pairs that can be stored at one time; the oldest sessions in the cache will be removed if new ones are added.

This option does not affect the session cache a server has for it's clients, e.g. it does not affect SSL objects with SSL_server set.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new( cachesize ) >>.

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache. Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of having it be closed forcibly.
The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL negotiation failed and the full text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. ['spdy/2','http1.1'].
On the client side it specifies the protocols offered by the client for NPN
as an array ref.
See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.
If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].
On the client side it specifies the protocols advertised by the client for ALPN as an array ref.
See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay 1.56+ and openssl-1.0.2+. More details about the extension are in RFC7301. To check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,[{$key_name}] >> where C<$data> is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<$key_name>. In this case it should return C<($current_key,$current_key_name)> where C<$current_key> is the current key (32 byte random data) and C<$current_key_name> the name associated with this key (exactly 16 byte). This C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name> as found in the ticket. It should return C<($key,$current_key_name)> where
C<$key> is the key associated with the given C<$key_name> and
C<$current_key_name> the name associated with the currently active key.
If C<$current_key_name> is different from the given C<$key_name> the callback
will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function
should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the
ticket. Compromise of a ticket encryption key might lead to decryption of SSL
sessions which used session tickets protected by this key.

Example:

Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16",'oldsecret');
my $newkey_name = pack("a16",'newsecret');

my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@mykeys; $i++) {
        next if $name ne $mykeys->[i][0];
        return ($mykeys->[i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
}, \@keys ];

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

=back
=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details. If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL> later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)> 

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=back

=item B<sysread( BUF, LEN, [ OFFSET ] )>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data. But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL

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frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls. This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite( BUF, [ LEN, [ OFFSET ]])>

This functions behaves from the outside the same as B<syswrite> in other L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number of bytes written. Because it basically just calls SSL_write from OpenSSL syswrite will write at most a single SSL frame. This means, that no more than 16.384 bytes, which is the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies. Please read the specific section in this documentation.

=item B<peek( BUF, LEN, [ OFFSET ])>

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'. If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algo$pub$digest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This method returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns the string representation of the SSL version of an established connection.

=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate.
This method directly returns the result of the dump_peer_certificate() method of Net::SSLeay.

=item B<peer_certificate($field;[$refresh])>

If a peer certificate exists, this function can retrieve values from it.
If no field is given the internal representation of certificate from Net::SSLeay is returned.
If refresh is true it will not used a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:
over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version >=1.33

Alternative names for the subject, usually different names for the same server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58.

=item B<get_hostname>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>
This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

- over 8
  - rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

- http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

- smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

- ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

- sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

- gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if their are no DNS names in subjectAltNames.
This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known. Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

No verification will be done. Actually is does not make any sense to call verify_hostname in this case.

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

- **check_cn**: 0|'always'|'when_only'
  Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

- **wildcards_in_alt**: 0|'full_label'|'anywhere'
  Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed. For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

- **wildcards_in_cn**: 0|'full_label'|'anywhere'
  Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

- **ip_in_cn**: 0|1|4|6
  Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.
If you give a subroutine for verification it will be called with the arguments
($hostname,$commonName,@subjectAltNames), where hostname is the name given for
verification, commonName is the result from peer_certificate('cn') and
subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works
for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1',
'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.
To check support, use C<< IO::Socket::SSL->can_alpn() >>.

Returns the last error (in string form) that occurred. If you do not have a
real object to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the
string C<SSL wants a read first!> or C<SSL wants a write first!> meaning that
the other side is expecting to read from or write to the socket and wants to be
satisfied before you get to do anything. But with version 0.98 you are better
comparing the global exported variable SSL_ERROR against the exported symbols
SSL_WANT_READ and SSL_WANT_WRITE.

This returns false if the socket could not be opened, 1 if the socket could be
opened and the SSL handshake was successful done and -1 if the underlying
IO::Handle is open, but the SSL handshake failed.

This will convert a glob reference or a socket that you provide to an
IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e. IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.

Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.

They will return undef until the handshake succeeded or an error got thrown. As long as the function returns undef and $! is set to EWOULDBLOCK one could retry the call after the socket got readable (SSL_WANT_READ) or writeable (SSL_WANT_WRITE).
This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of \texttt{SSL\_ocsp\_mode}: by default only the leaf certificate will be checked, but with \texttt{SSL\_OCSP\_FULL\_CHAIN} all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling \texttt{<< \$ssl->ocsp\_resolver >>} and provides the following methods:

\begin{itemize}
\item \textbf{hard\_error}
\end{itemize}

This returns the hard error when checking the OCSP response. Hard errors are certificate revocations. With the \texttt{SSL\_ocsp\_mode} of \texttt{SSL\_OCSP\_FAIL\_HARD} any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return \texttt{undef} as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return \texttt{''}.

\begin{itemize}
\item \textbf{soft\_error}
\end{itemize}

This returns the soft error(s) which occurred when asking the OCSP responders.

\begin{itemize}
\item \textbf{requests}
\end{itemize}

This will return a hash consisting of \texttt{<(url,request)>}-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of \texttt{application/ocsp-request} or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with \texttt{<< \$ssl->add\_response >>} you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.
This method takes the HTTP body of the response which got received when sending the OCSP request to C<$uri>. If no response was received or an error occurred one should either retry or consider C<$response> as empty which will trigger a soft error.

The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_SSL> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent with C<requests> and C<add_response>.

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally the given $fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C<%sslargs>. If C<$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

Determines or sets the default CA path. If existing path or dir or a hash is given it will set the default CA path to this value and never try to detect it automatically. If C<undef> is given it will forget any stored defaults and continue with detection of system defaults. If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.
The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM. If no usable system default can be found it will try to load and use L<Mozilla::CA> and if not available give up detection. The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context (unless specifically overridden in a call to new()). It accepts one argument, which should be either an IO::Socket::SSL object or an IO::Socket::SSL::SSL_Context object. See the SSL_reuse_ctx option of new() for more details. Note that this sets the default context globally, so use with caution (esp. in mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You may use this to make IO::Socket::SSL automatically re-use a given session cache (unless specifically overridden in a call to new()). It accepts one argument, which should be an IO::Socket::SSL::Session_Cache object or similar (e.g. something which implements get_session, add_session and maybe del_session like IO::Socket::SSL::Session_Cache does). See the SSL_session_cache option of new() for more details. Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme
Similar to \texttt{set_defaults}, but only sets the defaults for client mode.

Similar to \texttt{set_defaults}, but only sets the defaults for server mode.

Sometimes one has to use code which uses unwanted or invalid arguments for SSL, typically disabling SSL verification or setting wrong ciphers or SSL versions. With this hack it is possible to override these settings and restore sanity.

Example:

```perl
IO::Socket::SSL::set_args_filter_hack( sub {
    my ($is_server, $args) = @_;
    if ( ! $is_server ) {
        # client settings - enable verification with default CA
        # and fallback hostname verification etc
        delete @{$args}{qw(
            SSL_verify_mode
            SSL_ca_file
            SSL_ca_path
            SSL_verifycn_scheme
            SSL_version
        )};
        # and add some fingerprints for known certs which are signed by
        # unknown CAs or are self-signed
        $args->{SSL_fingerprint} = ...
    }
});
```

With the short setting \texttt{set_args_filter_hack('use_defaults')} it will prefer the default settings in all cases. These default settings can be modified with \texttt{set_defaults}, \texttt{set_client_defaults} and \texttt{set_server_defaults}.

The following methods are unsupported (not to mention futile!) and IO::Socket::SSL will emit a large \texttt{CROAK()} if you are silly enough to use them:
Note that send() and recv() cannot be reliably trapped by a tied filehandle (such as that used by IO::Socket::SSL) and so may send unencrypted data over the socket. Object-oriented calls to these functions will fail, telling you to use the print/printf/syswrite and read/sysread families instead.

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate( 'issuer' ) instead
use peer_certificate('subject') instead

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.
AUTHORS

Steffen Ullrich, <sullr@cpan.org> is the current maintainer.

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Marko Asplund, <marko.asplund@kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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---
abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
- 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IO-Socket-SSL
no_index:
directory:
  - t
  - inc
requires:
Mozilla::CA: '0'
Net::SSLeay: '1.46'
Scalar::Util: '0'
resources:
  bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
  homepage: https://github.com/noxxi/p5-io-socket-ssl
  license: http://dev.perl.org/licenses/
  repository: https://github.com/noxxi/p5-io-socket-ssl
  version: '2.060'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  */opt/cola/permits/1155785379_1619044975.13/0/libio-socket-ssl-perl-2-060-orig-1-tar-gz/IO-Socket-SSL-2.060/META.yml
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  */opt/cola/permits/1155785379_1619044975.13/0/libio-socket-ssl-perl-2-060-orig-1-tar-gz/IO-Socket-SSL-2.060/lib/IO/Socket/SSL/PublicSuffix.pm

1.2233 grub-gfxpayload-lists 0.7
1.2233.1 Available under license:
   Name: grub-gfxpayload-lists

   Files: *
   Copyright: 2010 Canonical Ltd.
   License: GPL-3+

   License: GPL-3+
   On Debian systems the full text of the GNU General Public License can be found in the `/usr/share/common-licenses/GPL-3` file.

1.2234 libteam-utils 1.26-1
1.2234.1 Available under license:
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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.]

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1.2241 pathval 1.1.1

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1.2242 grpc-ecosystem-grpc-opentracing

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1.2243 protobuf 1.22.0
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1.2247 statuses 1.5.0

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1.2249 prometheus-common 0.10.0

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1.2250 scowl 2017.08.24-1

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SCOWL (Spell Checker Oriented Word Lists) is a collection of English word lists maintained by Kevin Atkinson <kevina@users.sourceforge.net>

It was downloaded from:
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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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1.2252 k8s-io-helm 2.17.0+incompatible

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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.

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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(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
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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 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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"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.

(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
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1.2271 libffi 3.2.1 8

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1.2272 typing-extensions 4.0.1
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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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* 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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package spec

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}

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package simulator

import ( 
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
            }
        }
    }
}
Key: "serialuri:2",
Value: "Remote virtual Serial Port Concentrator",
],
],
{
Key: "feature",
Value: types.KeyValue{
Key: "dvs",
Value: "vSphere Distributed Switch",
],
],
],
}

type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self: ref,
    Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
  }

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{
    }
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
  })
}
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
            } else {
                return body
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })
        }
    }

    return body
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})
return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{,
}
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}
if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
info.Labels = labels
return info
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
.Plugin     string
.Option     string
.Severity   string // 'deprecated', 'removed', or 'unsupported'
.ReplacedBy string
.Additional string
.Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
)
newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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---

- Copy files to and from Containers in a cluster

---

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

---

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `:path`
- Remote file format is `:<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>::<path>`\`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`\`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\`<namespace>/\`. 

- `\`<pod-namespace>/<pod-name>::<path>`\`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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tomb - support for clean goroutine termination in Go.

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
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1.2306 go-containerregistry 0.6.0

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `<pod-name>:<path>`
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `namespace`.

- `<pod-namespace>/<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.2322 ntpdate 4.2.8p10+dfsg-5ubuntu7.3

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31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucsc.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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1.2326 opentracing-go 1.1.0

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package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

// XMLNS string `xml:"xmlns,attr,omitempty"`
// XMLName xml.Name `xml:"LegalHold"
// Status LegalHoldStatus `xml:"Status,omitempty"

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call

// VersionID string
Status  *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
  VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  
  // LegalHoldEnabled indicates legal hold is enabled  
  LegalHoldEnabled LegalHoldStatus = "ON"

  // LegalHoldDisabled indicates legal hold is disabled  
  LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
  return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
  return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
  if status == nil {
    return nil, fmt.Errorf("Status not set")
  }
  if !status.IsValid() {
    return nil, fmt.Errorf("invalid legal hold status \%v", status)
  }
  legalHold := &objectLegalHold{
    Status: *status,
  }
  return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
  // Input validation.
  if err := s3utils.CheckValidBucketName(bucketName); err != nil {
    return err
  }

  // Open Source Used In SMI 2021.01.0-Apr-2022  24069
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:   bucketName,
        objectName:   objectName,
        queryValues:  urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
    return &lh.Status, nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package api

import {
    "io/ioutil"
    "strings"
    "time"
}

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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* github.com/google/renameio - https://github.com/google/renameio

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match.go, match_test.go:

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep
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* gosmith - https://github.com/dvyukov/gosmith

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import (  
    "encoding/json"  
    "github.com/go-openapi/swag"
)
// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempy"`
    URL  string `json:"url,omitempy"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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SOFTWARE.

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package minio

import {
  "bytes"
  "context"
  "encoding/xml"
  "fmt"
  "net/http"
  "net/url"
  "github.com/minio/minio-go/v6/pkg/s3utils"
}

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
  XMLNS   string          `xml:"xmlns,attr,omitempty"`
  XMLName xml.Name        `xml:"LegalHold"
  Status  LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
  VersionID string
  Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
  VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
  // LegalHoldEnabled indicates legal hold is enabled
  LegalHoldEnabled LegalHoldStatus = "ON"

  // LegalHoldDisabled indicates legal hold is disabled
  LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v\`, status")
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
def closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")

    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
bucketName: bucketName,
objectName: objectName,
queryValues: urlValues,
contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}
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1.2347 google-api-go-client 0.14.0

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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)
// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)\*( All rights reserved.\)\n(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
')

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != "".go"" && filepath.Ext(path) != "".sh"" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }
    return nil
}
1.2348 libc 2.27-3ubuntu1.4

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

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.2353 lib-pq 1.3.0

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package github

import (   "fmt"   "net/http"   "reflect"   "testing"
)

func TestLicensesService_List(t *testing.T) {

setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),
Name: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key     *string `json:"key",omitempty`  
    Name    *string `json:"name",omitempty`
    URL     *string `json:"url",omitempty`
    HTMLURL *string `json:"html_url",omitempty`
    Featured *bool `json:"featured",omitempty`
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([][]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([][]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, err

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1.2358 nopt 1.0.10

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Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server. The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs. New Configuration directives:
   - ImapMenu {none, formatted, semiformatted, unformatted}
   - ImapDefault {error, nocontent, referer, menu, URL}
   - ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
   - Old: directive URL [x,y ...]
   - New: directive URL "Menu text" [x,y ...]
   - or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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

For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)

- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.

- Command-line flags have been removed since they will never be used here.

- Ian Kluft <ikluft@cisco.com>
  Engineering Information Framework
  Central Engineering
  Cisco Systems, Inc.
  San Jose, CA, USA

  Initial installation July/August 1996
  Misc bug fixes May 1997
  Submission to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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1.2368 libtry-tiny-perl 0.30-1

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1.2369 async-lock 1.1.3

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1.2370 fonts-lato 2.0-2

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Lato font family
Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).
REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Ssplit between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

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

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* /opt/cola/permits/1152278336_1618211001.95/0/fonts-lato-2-0-orig-2-tar-xz/fonts-lato-2.0/README.txt
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1.2371 go-openapi-jsonreference 0.19.3
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 University of Illinois at Urbana-Champaign
 605 E. Springfield, Champaign, IL 61820
 httpd@ncsa.uiuc.edu

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```
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   ===============

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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
```

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1.2384 docker-ce 19.03.14~3-0~ubuntu-bionic

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
    "gotest.tools/v3/assert"  
)
is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context  formatter.Context
expected string
}
// Errors
{
formatter.Context(Format: "{{InvalidFunction}}"),
'Template parsing error: template: :1: function "InvalidFunction" not defined
',
},

formatter.Context(Format: "{{nil}}"),
'Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
',
},
// Table format
{
formatter.Context(Format: NewSubscriptionsFormat("table", false)),
'NUM           OWNER       PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1            owner1       productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2            owner2       productid2          2020-01-01 10:00:00 +0000 UTC   compstring
',
},

formatter.Context(Format: NewSubscriptionsFormat("table", true)),
'1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
',
},

formatter.Context(Format: NewSubscriptionsFormat("table {{.Owner}}", false)),
'OWNER
owner1
owner2
',

},
formatter.Context(Format: NewSubscriptionsFormat("table {{.Owner}}", true)),
'OWNER
owner1
owner2
',
},
// Raw Format
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

// Custom Format
for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10
                    }
                }
            }
        }
    }
}
ComponentsString: "compstring",
},

{ Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
},
}

out := &bytes.Buffer{
}

testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}

}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{ Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
}
},
ComponentsString: "compstring",
},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
}
}
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\nQuantity: 10 nodes\nExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
}
"DockerID":
"",
"Eusa":
nil,
"ID":
"id2",
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)

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assert.Check(t, is.Equal(subscriptions[i].Owner, s))

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package engine

import ("time"
"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)

const (defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
        }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}
func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"

    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    authorization, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }
}
key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        })
    }
    return decoded, nil
}
return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
return "", errors.Wrap(err, errors.Fields{"msg": message})
}

h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"`
    Token       string    `json:"token"`
    MaxEngines  int       `json:"maxEngines"`
    ScanningEnabled bool    `json:"scanningEnabled"`
    Type        string    `json:"licenseType"`
    Tier        string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true,"
}

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  <link type="text/css" rel="stylesheet" href="/sites/all/themes/bootstrap-business/css/ie8.css?ol0qr1" media="all" />
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  <!--[endif]-->
</head>
<body>

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<![endif]-->
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<!--[CDATA[//-->window.jQuery || document.write("<script src="/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js">\x3C/script>"))
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    x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal</a><br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List</a><br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List</a><br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff</a><br><a href=choosealicense.com>Choosealicense</a>";  
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

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1.2388 python 3.8.0-3ubuntu1~18.04.2

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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
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* /opt/cola/permits/1252267754_1641885841.24/0/socks-proxy-agent-6-1-1-tgz/package/README.md

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1.2391 cloud-google-com-go 0.99.0

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package compute_test

import (  
"context"

compute "cloud.google.com/go/compute/apiv1"  
"google.golang.org/api/iterator"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
}
defer c.Close()

// TODO: Use client.
_ = c
}

def ExampleLicensesClient_Delete() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
  // TODO: Handle error.
}
def c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
resp, err := c.Delete(ctx, req)
if err != nil {
  // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

def ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
  // TODO: Handle error.
}
def c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
  // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

def ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
}
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    req := &computepb.TestIamPermissionsLicenseRequest{ // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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package compute_test

import (  
    "context"
)

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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package compute

import (  "bytes"  "context"  "fmt"  "io/ioutil"  "math"  "net/http"  "net/url"

gax "github.com/googleapis/gax-go/v2"  "google.golang.org/api/googleapi"  "google.golang.org/api/iterator"  "google.golang.org/api/option"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete             []gax.CallOption
    Get                []gax.CallOption
    GetIamPolicy       []gax.CallOption
    Insert             []gax.CallOption
    List               []gax.CallOption
    SetIamPolicy       []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
        (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.    // Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
    //
    // The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient
// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.

// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.

func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    //
    // The Licenses API.
    //
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}

c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)  
    kv = append(kv, "gapi", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()

if err != nil {
return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return nil, err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)

    httpReq.Header = c.xGoogMetadata
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.License{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}

httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}

return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetLicenseResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }

  baseUrl, _ := url.Parse(c.endpoint)

  params := url.Values{}
  if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
  }

 (baseUrl.RawQuery = params.Encode()}

  if err != nil {
    return nil, err
  }

  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }

  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
        req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
        req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    if req != nil && req.ReturnPartialSuccess != nil {
    }
    baseUrl.RawQuery = params.Encode()
if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
deref httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
    it.pageInfo.MaxSize = int(req.GetMaxResults())
    it.pageInfo.Token = req.GetPageToken()

return it
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *compute pb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute pb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute pb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestPermissionsResponse{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, err
    }

    return
// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items[0:]
    return b
}
it.items = nil
return b
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  "bytes"  "context"  "fmt"  "io/ioutil"  "net/http"  "net/url"

gax "github.com/googleapis/gax-go/v2"  "google.golang.org/api/googleapi"  "google.golang.org/api/option"  "google.golang.org/api/option/internaloption"  httptransport "google.golang.org/api/transport/http"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  "google.golang.org/grpc"  "google.golang.org/grpc/metadata"  "google.golang.org/protobuf/encoding/protojson"
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
        (*computepb.TestIamPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}
// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
    }
    return c, nil
}
httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetLicenseCode())
if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    // TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
    intended for use only by third-party partners who are creating Cloud Marketplace images.
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
    
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

1.2392 ebtables 2.0.10.4 3.5ubuntu2.18.04.3

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DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.
Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

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

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

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

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

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net. This package was debianised by Steve McIntyre <stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001. The maintainership was transferred in August 2003 to Andreas Barth <aba@not.so.argh.org>, first as cooperative maintainership and sponsored by Steve.
Packaging and keeping the package current is not simple, for details see README.Debian. We consider http://netpbm.alioth.debian.org/ the technical upstream, and this release can be exported out of alioth by
cvs -z3 -d:pserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export \
-r debian-9-25-2 netpbm

Copyright:
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Netpbm has a very complicated licensing setup, as it is a collection of hundreds of small utility programs, each with an individual copyright/license. From inspection of the source and documentation in the package, I believe the following programs are DFSG-free. They have a variety of licenses, which I have summarised below for convenience.

A: The most common netpbm license - clearly the original from Jef Poskanzer:

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The core libp[gbnp]m library code all also seems to follow this license.

B: The standard BSD license. See /usr/share/common-licenses/BSD

C: GNU General Public License v2. See /usr/share/common-licenses/GPL

D: The Independent JPEG Group license:

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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If you modify this software, you should include a notice giving the name of the person performing the modification, the date of modification, and the reason for such modification.

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Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
asciiptopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptoppm)
brushtopbm: (A) 1988 Jef Poskanzer
cmuwmtopbm: (A) 1989 Jef Poskanzer
eyuvtoppm: (B) 1995 The Regents of the University of California
fiascotopnm: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm: (A) 1989 Jef Poskanzer
fstopgm: (A) 1989 Jef Poskanzer
g3topbm: (A) 1989 Paul Haeberli <paul@manraysgi.com>
gemtopnm: (A) 1988 Diomidis D. Spinellis
giftopnm: (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm: (A) 1990 Stephen P. Lesniewski
hipstopgm: (A) 1989 Jef Poskanzer
icontopbm: (A) 1988 Jef Poskanzer
ilbmtoppm: (A) 1989 Jef Poskanzer
imgtoppm: (A) 1989 Jef Poskanzer
jpegtoppm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leaftoppm: (A) 1994 Bill O'Donnell
lisptoppgm: (A) 1988 Jef Poskanzer, Jamie Zawinski
macptopbm: (A) 1988 Jef Poskanzer
mdatopbm: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
mgrtopbm: (A) 1989 Jef Poskanzer
mtvtoppm: (A) 1989 Jef Poskanzer
neotoppm: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
palmtoppm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut: (A) 1989 Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamfile: (A) 1991 Bryan Henderson
pamstretch (C) 1998, 2000 Russell Marks (as pnminterp)
pamstretched (H1) 1999 Russell Marks (as pnminterp-gen)
pbmclean: (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife: (A) 1988-1991 Jef Poskanzer
pbmcreate: (A) 1988 Jef Poskanzer
pbmcreate: (A) 1989-1991 Jef Poskanzer
pbmpage: (C) 1998 Tim Norman
pbmpscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmreduce: (A) 1989 Jef Poskanzer
pbmtextps: (A) 2002 James McCann
pbmtext: (A) 1991 Jef Poskanzer
pbmto10x: (A) 1990-1994 Ken Yap
pbmtoascii: (A) 1988-1992 Jef Poskanzer
pbmtoatk: (A) 1991 Bill Janssen
pbmtoicon: (A) 1989 Mike Parker
pbmto10x: (A) 1989 Jef Poskanzer
pbmtoeps: (A) 1988 Jef Poskanzer
pbmtoepsn: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmtog3: (A) 1989 Paul Haeblerl <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtonokia: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtomid: (A) 1988 Jef Poskanzer
pbmtomat: (A) 1988 Douwe vand der Schaaf
pbmtomds: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
pbmtomgr: (A) 1989 Jef Poskanzer
pbmtonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhsen <tim.ruehsen@openmediasystem.de>
pbmtopgm: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer
pbmtoplot: (A) 1990 Arthur David Olson
pbmtoppa: (C) 1998 Tim Norman
pbmtopsq3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-klarlsruhe.de>
pbmtopxx: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmtox10bm: (A) 1988 Jef Poskanzer
pbmtobxhm: (A) 1988 Jef Poskanzer
pbmtozinc: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmramp: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolispm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtopbm: (A) 1989 Jef Poskanzer
pgmtoppm: (A) 1991 Jef Poskanzer
pi1toppm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
piltoppm: (A) 1989 Jef Poskanzer
pil3toppm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
piltoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtoppm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <wille@schai.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap: (A) 1989,1991 Jef Poskanzer
          (A) 2001 Bryan Henderson
pnmcomp: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdensity: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989 Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmhistmap: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex:  (A) 1991  Jef Poskanzer
pminvert:  (A) 1989  Jef Poskanzer
pnmmargin: (A) 1991  Jef Poskanzer
pnmmontage: (A) 2000  Ben Olmstead
pnmfilt:   (A) 1993  Graeme W. Gill <graeme@labtam.oz.au>
pnnorm:   (A) 1989,1991 Jef Poskanzer (as pgmnorm)
           (A) 2002  Bryan Henderson
pnmpad:    (A) 1989  Jef Poskanzer
           (A) 1990  Angus Duggan
           (A) 2002  Martin van Beilen
pnmpaste:  (A) 1989  Jef Poskanzer
pnpad:     (A) 1989  Jef Poskanzer
ppm:       (A) 1989  Jef Poskanzer
ppm3d:     (A) 1989  Jef Poskanzer
ppmbrighten:  (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange:  (A) 1991  Wilson H. Bent, Jr
ppm:       (H) 1995  John Walker <kelvin@fourmilab.ch>
pmmcolors: (H) 2001  Bryan Henderson
ppmcolormask:  (H1) 2000  Bryan Henderson <bryanh@giraffe-data.com>
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
ppmhist: (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmnsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmpat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
ppmrainbow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
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ybmtoptppm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittopppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
zeisstopnm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:
[ bmptopppm: (A) 1992 David W. Sanderson ]
[ gemtopppm: (A) 1988 Diomidis D. Spinellis ]
[ pgmnorm: (A) 1989-1991 Jef Poskanzer ]
[ ppminterp: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ ppminterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
[ ppmnoraw: (A) 1991 Jef Poskanzer ]
[ picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <wlb@usc.edu> ]
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PATENTS
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These are the patents the Netpbm maintainer knows about that relate to Netpbm. It is basically just information themaintainer has stumbled over at some point -- no search has been done.

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The original purpose of patents is probably perverted when patents are applied to things you implement in computer programs. This is one of the Free Software Foundation's causes. See <http://www.gnu.org/philosophy.html#laws>.

Unisys owns a patent on LZW compression, which is used by ppmtogif, and maybe on LZW decompression, which is used by giftoppm. IBM also owns a patent that may cover the GIF tools. Unisys offers a license of the patent for trivial use for $5000. Its patent expires in 2003. Neither company has ever enforced the patent against trivial users of it. <http://news.cnet.com/news/0-1005-200-1713278.html> is an article dated April 18, 2000 on the issue. <http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter. For information from another perspective, see http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.
The following Netpbm components may be restricted by this patent: ppmtogif, giftopnm.

A good substitute for GIF if the patents are a problem is PNG (see pngtopnm, pnmtopng), which was developed with a primary purpose of not using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and other patents covering various aspects of the "front end."

1.2405 tough-cookie 2.5.0
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1.2407 taglibs-standard-spec 1.2.5

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1.2408 sean-seed 0.0.0-20170313163322-e2103e2c3529

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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1.2409 grafana 7.3.10
1.2409.1 Available under license :

```json
+++ 
title = "License Expiration"
description = ""
keywords = ["grafana", "licensing"]
type = "docs"
[menu.docs]
```
# License expiration

If your license has expired most of Grafana keeps working as normal. Some enterprise functionality stops or runs with reduced functionality and Grafana displays a banner informing the users that Grafana is running on an expired license. Your Grafana admin needs to upload a new license file to restore full functionality.

> Replace your license as soon as possible. Running Grafana Enterprise with an expired license is unsupported and can lead to unexpected consequences.

## Update your license

1. Locate your current `license.jwt` file. In a standard installation it is stored inside Grafana's data directory, which on a typical Linux installation is in `/var/lib/grafana/data`. This location might be overridden in the ini file [Configuration](https://grafana.com/docs/grafana/latest/administration/configuration/).

```
`ini
[enterprise]
license_path = /path/to/your/license.jwt
```

The configuration file's location may also be overridden by the `GF_ENTERPRISE_LICENSE_PATH` environment variable.

1. Log in to your [Grafana Cloud Account](https://grafana.com/login) and make sure you're in the correct organization in the dropdown at the top of the page.
1. Under the **Grafana Enterprise** section in the menu bar to the left, choose licenses and download the currently valid license with which you want to run Grafana. If you cannot see a valid license on Grafana.com, please contact your account manager at Grafana Labs to renew your subscription.
1. Replace the current `license.jwt`-file with the one you've just downloaded.
1. Restart Grafana.

## If your license expires

If your Grafana Enterprise license expires, the following functionality affected as follows.

### Data source permissions

Your current data source permissions will keep working as expected, but you'll be unable to add new data source permissions until the license has been renewed.

### LDAP authentication

- LDAP synchronization is not affected by an expired license.
- Enhanced LDAP debugging is unavailable.

### SAML authentication
SAML authentication is not affected by an expired license.

### Reporting

- You're unable to configure new reports or generate previews.
- Scheduled reports are not generated or sent.

### Enterprise plugins

Enterprise plugins might stop working.

### White labeling

The white labeling feature is turned off, meaning that any white labeling options will not have any effect.

### Usage insights

All the usage insights features are turned off, meaning that you won't be able to look at dashboard usage, presence indicator or to use improved search. Grafana still collects usage data and you will have access to it as soon as you update your license.

### Vault integration

Vault integration is not affected by an expired license.

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html
OW2

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

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

Apache

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

MortBay

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.2415 jetty-util-ajax 9.4.35.v20201120

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

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

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

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

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available
from

  http://www.ijs.si/software/snprintf/  .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com>
and David Slattengren <sllatteng@Xinet.COM>. These files have been part
of the original Berkeley ditroff distribution, without AT&T code, and
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The original package can be found at

  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 `ditview' 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
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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
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

The `-mdoc' macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
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 `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at
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The file `tmac/hyphenex.det' is identical to the file `dehyphhtex.tex',
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The file `tmac/hyphen.cs' contains the same patterns as the file
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= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactoring still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
def i_can_has_cheezburger?
  "OHAI!"
end

def will_it_blend?
  "YES!"
end
end

=== Unit tests

Define your tests as methods beginning with `+test_+`.

require "minitest/autorun"

class TestMeme < Minitest::Test
def setup
  @meme = Meme.new
end

def test_that_kitty_can_eat
  assert_equal "OHAI!", @meme.i_can_has_cheezburger?
end

def test_that_it_will_not_blend
  refute_match /^no/i, @meme.will_it_blend?
end

def test_that_will_be_skipped
  skip "test this later"
end
end

=== Specs

require "minitest/autorun"
describe Meme do
  before do
    @meme = Meme.new
  end
  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"
    end
  end
  describe "when asked about blending possibilities" do
    it "won't say no" do
      @meme.will_it_blend?.wont_match /^no/i
    end
  end
end
For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

== Benchmarks
Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']
class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end
Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV['BENCH'] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
    100.times do
  end
end
```
@obj.my_algorithm(n)
end
end
end
end
```

outputs something like:

```
# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```ruby
class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?
    @meme.__send__(method)
  end
end
```

require "minitest/autorun"

describe MemeAsker, :ask do
describe "when passed an unpunctuated question" do
  it "should invoke the appropriate predicate method on the meme" do
    @meme = Minitest::Mock.new
    @meme_asker = MemeAsker.new @meme
    @meme.expect :will_it_blend?, :return_value

    @meme_asker.ask "will it blend"
  end
end
```
**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```ruby
def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end
```

### Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do  # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

### Running Your Tests
Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

.............................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help       Display this help.
  -s, --seed SEED  Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose    Verbose. Show progress processing files.
  -n, --name PATTERN  Filter run on /regexp/ or string.
  -e, --exclude PATTERN  Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride          Pride. Show your testing pride!
  -a, --autotest      Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call `plugin_XXX_init` during startup. The option processor will also try to call `plugin_XXX_options` passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```
# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
  end
end
```
options[:myci_addr] = get_myci_addr
options[:myci_port] = get_myci_port
end
end

def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in `plugin_bogus_init` above, you simply add your reporter instance to the composite via `<<<`.

`AbstractReporter` defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
    class MyCI < AbstractReporter
        attr_accessor :results, :addr, :port

        def initialize options
            self.results = []
            self.addr = options[:myci_addr]
            self.port = options[:myci_port]
        end

        def record result
            self.results << result
        end

        def report
            CI.connect(addr, port).send_results self.results
        end
    end
end
# code from above...
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
  def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

outputs a failure:

1) Failure:
  Worker#test_0001_must respond to work [bug11.rb:16]:
  Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

  before do
    @worker = Worker.new(Object.new)
    @worker.extend Minitest::Expectations
  end

or you can extend the Worker class (within the test file!), like:

class Worker
include ::Minitest::Expectations
end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so, in order to require minitest, you must first add the <tt>gem 'minitest'</tt> to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.
This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform. Minitest can run test suites using any Encoding, but to run Minitest’s own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you’ll see errors like:

```
--- expected
+++ actual
@@ -1,2 +1,3 @@
 # encoding: UTF-8
-"Expected /\w+/ to not match "blah blah\n"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"blah blah\n"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you’ve got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

```
=== Minitest’s own tests require GNU (or similar) diff.
```

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure: TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
  Expected: "--- expected
  +++ actual
  @@ -1,2 +1,3 @@
  # encoding: UTF-8
  "hahahahahahahahahahahahahahahahahahahaha"
  Actual: "hahahahahahahahahahahahahahahahahahahaha"
```

5) Failure: TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest_test.rb:845]:

Expected: "No visible difference in the Hash#inspect output. You should look at the implementation of #== on Hash or its members.
{1=><Object:0xXXXXXXX>}

Actual: "Expected: {1=><Object:0x0000003ba0470>}
    Actual: {1=><Object:0x0000003ba0448>}
"

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from
http://gnuwin32.sourceforge.net/packages/diffutils.htm
(make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

    diff.exe -v

There are multiple lines of output, the first should be something like:

    diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec   :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g.
  <tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata         :: Metadata for describe/it blocks & CLI tag filter.
  E.g. <tt>it "requires JS driver", js: true</tt> & <tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minispec-rails            :: Minimal support to use Spec style in Rails 5+.
minitest-around           :: Around block for minitest. An alternative to setup/teardown dance.
minitest-assert_errors    :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
minitest-autotest         :: autotest is a continuous testing facility meant to be used during development.
minitest-bacon            :: minitest-bacon extends minitest with bacon-like functionality.
minitest-bang             :: Adds support for RSpec-style let! to immediately invoke let statements before each test.
minitest-bisect           :: Helps you isolate and debug random test failures.
minitest-blink1_reporter  :: Display test results with a Blink1.
minitest-capistrano       :: Assertions and expectations for testing Capistrano recipes.
<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>minitest-capybara</td>
<td>Capybara matchers support for minitest unit and spec.</td>
</tr>
<tr>
<td>minitest-chef-handler</td>
<td>Run Minitest suites as Chef report handlers</td>
</tr>
<tr>
<td>minitest-ci</td>
<td>CI reporter plugin for Minitest.</td>
</tr>
<tr>
<td>minitest-context</td>
<td>Defines contexts for code reuse in Minitest specs that share common expectations.</td>
</tr>
<tr>
<td>minitest-debugger</td>
<td>Wraps assert so failed assertions drop into the ruby debugger.</td>
</tr>
<tr>
<td>minitest-display</td>
<td>Patches Minitest to allow for an easily configurable output.</td>
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<tr>
<td>minitest-documentation</td>
<td>Minimal documentation format inspired by rspec's.</td>
</tr>
<tr>
<td>minitest-doc_reporter</td>
<td>Detailed output inspired by rspec's documentation format.</td>
</tr>
<tr>
<td>minitest-emoji</td>
<td>Print out emoji for your test passes, fails, and skips.</td>
</tr>
<tr>
<td>minitest-english</td>
<td>Semantically symmetric aliases for assertions and expectations.</td>
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<tr>
<td>minitest-excludes</td>
<td>Clean API for excluding certain tests you don't want to run under certain conditions.</td>
</tr>
<tr>
<td>minitest-fail-fast</td>
<td>Reimplements RSpec's &quot;fail fast&quot; feature</td>
</tr>
<tr>
<td>minitest-filecontent</td>
<td>Support unit tests with expectation results in files.</td>
</tr>
<tr>
<td>minitest-filesystem</td>
<td>Adds assertion and expectation to help testing filesystem contents.</td>
</tr>
<tr>
<td>minitest-firemock</td>
<td>Makes your Minitest mocks more resilient.</td>
</tr>
<tr>
<td>minitest-focus</td>
<td>Focus on one test at a time.</td>
</tr>
<tr>
<td>minitest-gcstats</td>
<td>A minitest plugin that adds a report of the top tests by number of objects allocated.</td>
</tr>
<tr>
<td>minitest-great_expectations</td>
<td>Generally useful additions to minitest's assertions and expectations.</td>
</tr>
<tr>
<td>minitest-growl</td>
<td>Test notifier for minitest via growl.</td>
</tr>
<tr>
<td>minitest-happy</td>
<td>GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!</td>
</tr>
<tr>
<td>minitest-have_tag</td>
<td>Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.</td>
</tr>
<tr>
<td>minitest-hooks</td>
<td>Around and before_all/after_all/around_all hooks</td>
</tr>
<tr>
<td>minitest-hyper</td>
<td>Pretty, single-page HTML reports for your Minitest runs</td>
</tr>
<tr>
<td>minitest-implicit-subject</td>
<td>Implicit declaration of the test subject.</td>
</tr>
<tr>
<td>minitest-instrument</td>
<td>Instrument ActiveSupport::Notifications when test method is executed.</td>
</tr>
<tr>
<td>minitest-instrument-db</td>
<td>Store information about speed of test execution provided by minitest-instrument in database.</td>
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<tr>
<td>minitest-junit</td>
<td>JUnit-style XML reporter for minitest.</td>
</tr>
<tr>
<td>minitest-libnotify</td>
<td>Test notifier for minitest via libnotify.</td>
</tr>
<tr>
<td>minitest-line</td>
<td>Run test at line number.</td>
</tr>
<tr>
<td>minitest-logger</td>
<td>Define assert_log and enable minitest to test log messages.</td>
</tr>
<tr>
<td></td>
<td>Supports Logger and Log4r::Logger.</td>
</tr>
<tr>
<td>minitest-macruby</td>
<td>Provides extensions to minitest for macruby UI testing.</td>
</tr>
</tbody>
</table>
minitest-matchers :: Adds support for RSpec-style matchers to minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.

minitest-metadata :: Annotate tests with metadata (key-value).

minitest-mongoid :: Mongoid assertion matchers for Minitest.

minitest-must_not :: Provides must_not as an alias for wont in Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.

minitest-osx :: Reporter for the Mac OS X notification center.

minitest-parallel_fork :: Fork-based parallelization

minitest-parallel-db :: Run tests in parallel with a single database.

minitest-power_assert :: PowerAssert for Minitest.

minitest-predicates :: Adds support for .predicate? methods.

minitest-profile :: List the 10 slowest tests in your suite.

minitest-rails :: Minitest integration for Rails 3.x.

minitest-rails-capybara :: Capybara integration for Minitest::Rails.

minitest-reporters :: Create customizable Minitest output formats.

minitest-rg :: Colored red/green output for Minitest.

minitest-rspec_mocks :: Use RSpec Mocks with Minitest.

minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.

minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.

minitest-shared_description :: Support for shared specs and shared spec subclasses

minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.

minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)

minitest-snail :: Print a list of tests that take too long

minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.

minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).

minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.

minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.

minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.

minitest-stately :: Find leaking state between tests

minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.

minitest-stub-const :: Stub constants for the duration of a block.

minitest-tags :: Add tags for minitest.

minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically
pull it in. If not, you'll need to do it yourself:

```ruby
gem "minitest"     # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"

# ... usual testing stuffs ...
```

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

```markdown
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```

Found in path(s):
* /opt/cola/permits/1152280212_1618211306.23/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/README.rdoc

1.2429 mergo v0.3.12
1.2429.1 Available under license:

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2430 sigs.k8s.io/json 0.0.0-20211020170558-c049b76a60c6
1.2430.1 Available under license:

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That's all there is to it!

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# version 0.1
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### 1.2439 jackson 2.11.1

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1.2446 kubernetes-apimachinery 0.21.0-rc.0

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# Contributions to the urllib3 project

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## Contributors

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  * 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/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
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* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* Brandon-rhodes <http://rhodesmill.org/brandon>
  * 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@ibofobi.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 Figovsky <boris.figovsky@ravellosystems.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.vitkovskiy@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 <nipumn1313@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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1.2451 libsepol 2.7-1
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1.2452 kubernetes-klog 1.0.0
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1.2455 man-db 2.8.3 2ubuntu0.1

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BSON library for Go

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text format.

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   * Solaris 10 + Sun Studio fixes.

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Oleg Smolsky <oleg.smolsky@gmail.com>
   * MS Visual Studio error format option.
   * Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
   * gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
   * Fixed warnings about generated constructors not explicitly initializing
     all fields (only present with certain compiler settings).
   * Added generation of field number constants.

Wink Saville <wink@google.com>
   * Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
   * Small patch improving performance of in Python serialization.

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   * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
   * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
   * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
   * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
   * Optimize Java serialization code when writing a small message to a stream.
   * Optimize Java serialization of strings so that UTF-8 encoding happens only
     once per string per serialization call.
   * Fix cleanup of some Java warnings.
   * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
   * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
   * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
   * Fixed detection of sched_yield on Solaris.
   * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
   * Fixed minor IBM xlC compiler build issues
1.2464 ipset 6.34 1

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

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

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If 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 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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@heading TERMS AND CONDITIONS

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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Version 2, June 1991

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

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

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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Oracle

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

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

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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

Apache

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

MortBay

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

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2493 idna 2.10

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Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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```python
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',
'Licence :: 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',
'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/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.2494agentx-levenshtein v1.2.1
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Found in path(s):
* /opt/cola/permits/1136704228_1613864729.44/0/libhttp-date-perl-6-02-orig-1-tar-gz/HTTP-Date-6.02/META.yml

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

=head1 NAME
HTTP::Date - date conversion routines

=head1 SYNOPSIS
use HTTP::Date;

$string = time2str($time);   # Format as GMT ASCII time
$time = str2time($string);   # convert ASCII date to machine time

=head1 DESCRIPTION
This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

=over 4

=item time2str( $time )

The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

Sun, 06 Nov 1994 08:49:37 GMT

=item str2time( $str [, $zone] )

The str2time() function converts a string to machine time. It returns
C<undef> if the format of $str is unrecognized, otherwise whatever the
C<Time::Local> functions can make out of the parsed time. Dates
before the system's epoch may not work on all operating systems. The
time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the
default time zone to use when converting the date. This parameter is
ignored if the zone is found in the date string itself. If this
parameter is missing, and the date string format does not contain any
zone specification, then the local time zone is assumed.

If the zone is not "C<GMT>" or numerical (like "C<-0800>" or
"C<+0100>"), then the C<Time::Zone> module must be installed in order
to get the date recognized.

=item parse_date( $str )

This function will try to parse a date string, and then return it as a
list of numerical values followed by a (possible undefined) time zone
specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year
will be the full 4-digit year, and $month numbers start with 1 (for January).

In scalar context the numbers are interpolated in a string of the
"YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned (C<undef> in
scalar context).

The function is able to parse the following formats:

"Thu Feb  3 17:03:55 GMT 1994"  -- ctime(3) format
"Thu Feb  3 00:00:00 1994",      -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700"    -- common logfile format
"09 Feb 1994 22:23:32 GMT"     -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT"       -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT"     -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29"          -- zone is optional
"1994-02-03"                   -- only date
"1994-02-03T14:15:29"          -- Use T as separator
"19940203T141529Z"             -- ISO 8601 compact format
"19940203"                     -- only date
The parser ignores leading and trailing whitespace. It also allow the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date in the current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.

=item time2iso( [\$time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted string representing time in the local time zone.

=item time2isoz( [\$time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted string representing Universal Time.
NAME
HTTP::Date - date conversion routines

SYNOPSIS
use HTTP::Date;

$string = time2str($time);    # Format as GMT ASCII time
$time = str2time($string);    # convert ASCII date to machine time

DESCRIPTION
This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

time2str( [$time] )
   The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

   The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

   Sun, 06 Nov 1994 08:49:37 GMT

str2time( $str [, $zone] )
   The str2time() function converts a string to machine time. It returns `undef' if the format of $str is unrecognized, otherwise whatever the `Time::Local' functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for parse_date().

   The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

   If the zone is not "GMT" or numerical (like "-0800" or "+0100"), then the `Time::Zone' module must be installed in order to get the date recognized.

parse_date( $str )
   This function will try to parse a date string, and then return it as
a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year returned will not have the number 1900 subtracted from it and the $month numbers start with 1.

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned.

The function is able to parse the following formats:

"Thu Feb  3 17:03:55 GMT 1994"  -- ctime(3) format
"Thu Feb  3 00:00:00 1994",       -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT"  -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT"  -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700"  -- common logfile format
"09 Feb 1994 22:23:32 GMT"  -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT"  -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT"  -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100"  -- ISO 8601 format
"1994-02-03 14:15:29"  -- zone is optional
"1994-02-03"  -- only date
"1994-02-03T14:15:29"  -- Use T as separator
"19940203T141529Z"  -- ISO 8601 compact format
"19940203"  -- only date

"08-Feb-94"  -- old rfc850 HTTP format  (no weekday, no time)
"08-Feb-1994"  -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994"  -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994"  -- common logfile format  (no time, no offset)

"Feb  3 1994"  -- Unix 'ls -l' format
"Feb  3 17:03"  -- Unix 'ls -l' format

"11-15-96 03:52PM"  -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow the seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first matching date *before* current month. If the year is given with only 2 digits, then parse_date() will select the century that makes the year closest to the current date.
time2iso( \[\$time\] )
Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted
string representing time in the local time zone.

time2isoz( \[\$time\] )
Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted
string representing Universal Time.

SEE ALSO
perlfunc, Time::Zone

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1.2507 aws-sdk-go-v2 1.3.2
1.2507.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws smithy-go/transport/http"$
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
    addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
// * Status
// * KeyFingerprint
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:        region,
    ServiceID:     ServiceID,
    SigningName:   "license-manager",
    OperationName: "ListReceivedLicenses",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
    params = &CreateLicenseInput{} }
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
  if params == nil {
    params = &CheckoutLicenseInput{ }
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckoutLicenseInput struct {
  // Checkout type.
  // // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  // // This member is required.
  ClientToken *string

  // License entitlements.
  // // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

type CheckoutLicenseOutput struct {
  // Checkout type.
  CheckoutType types.CheckoutType
  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData
  // Date and time at which the license checkout expires.
  Expiration *string
  // Date and time at which the license checkout is issued.
  IssuedAt *string
  // License consumption token.
  LicenseConsumptionToken *string
  // Node ID.
  NodeId *string
  // Signed token.
  SignedToken *string
  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import {
    "context"
    awsawsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {
    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
  return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
  return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  return result, metadata
}
out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// *
// * Beneficiary
// *
// * ProductSKU
// *
// * KeyFingerprint
// *
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11deserializelistLicenses{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
}
// This member is required.
LicenseArn *string

// License version.
Version *string

} type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:             region,
        ServiceID:          ServiceID,
        SigningName:        "license-manager",
        OperationName:      "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
    addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// License consumption token.
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.2508 wcwidth 1.0.1
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================

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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn][http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c].

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1.2509 gosimple-slug 1.4.2

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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.

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

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

When a "work that uses the Library" uses material from a header file 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.

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

Preamble

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1.2531 utils 0.0.0-20200411171748-3d5a2fe318e4

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1.2534 go-runtime 1.16.15

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// limitations under the License.

package spec

import (
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
"name": "the name",
"url": "the url",
"x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}
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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.2539 python3-astroid 1.6.0-1
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Lato font family

================
Version 2.007; Latin+Cyrillic+Greek+IPA opensource

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Creation year: 2014

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Lato is a sans serif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic ("Lato" means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a
typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sans serif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

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CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

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REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Ssplit between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

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1.2549 python-requests 2.26.0

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1.2566 rcrowley-go-metrics 0.0.0-20190826022208-cac0b30c2563

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1.2567 go-openapi-analysis 0.19.14

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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 [1]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 [2]Canonical and [3]Dalton Maag, be able to build on the existing font 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 [9]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
* [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
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Licence (SIL OFL) are not identical and should not be confused with
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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
itmade 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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1.2569 gopsutil 3.21.6-0.20210624221800-cb512c850043+incompatible

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1.2570 kubernetes-apimachinery 0.0.0-20191111054156-6eb29fdf75dc

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1.2574 python-cryptography 2.1.4 1ubuntu1.4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"  
)

var sentinels = []string{  
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {  
  t.Parallel()  
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
    if err != nil {  
      return err  
    }
  })
}
if ext := filepath.Ext(path); ext != "\go" && ext != "\proto" {
    return nil
}
if strings.HasSuffix(path, "\pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
    src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }

    return nil
}
if err != nil {
    t.Fatal(err)
}
}

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An entry with multiple email addresses specifies that the first address should be used in the submit logs and that the other addresses should be recognized as the same person when interacting with Gerrit.

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1.2598 google-uuid 1.1.2

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1.2601 check-error 1.0.2

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1.2604 google-apis 1.1.0

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1.2611 fs.realpath 1.0.0

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)
// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string               `json:"arrayUUID,omitempty"
    ClusterID    string               `json:"clusterID,omitempty"
    CustomerID   string               `json:"customerID"
    CustomerName string               `json:"customerName"
    Storage      int                  `json:"storage"
    ValidUntil   time.Time            `json:"validUntil"
    LicenceType  string               `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool                 `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == SevNewDefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated"  // deprecated, but still completely functional
    SevIgnored = "ignored"      // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved = "removed"      // completely removed from CoreDNS, and would cause CoreDNS to exit if present
    in the Corefile
    SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not
    present in the corefile
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool  

    // The following statuses are used for selecting/filtering notifications
    SevAll = "all" // show all statuses
    )

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package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const (
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        Body: licenceKey,
    })
    if err != nil {
        return err
    }
    return nil
}
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{}
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{}
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a

type License struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}

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package simulator

import (  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/soap"  
    "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "00000-00000-00000-00000-00000-00000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
    Key: "feature",
    Value: types.KeyValue{
        Key: "serialuri:2",
        Value: "Remote virtual Serial Port Concentrator",
    },
    Key: "feature",
    Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
}
m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: new(types.UpdateLicenseLabelResponse)
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
            }
        }

        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

---

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>\`
- Remote file format is `\<pod-name\\>:\<path>\`

```bash
tcpl /tmp/foo_dir <some-pod\\>:/tmp/bar_dir
tcpl
```

---

### Remote to Local

---
Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>::path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>`.

- `<pod-namespace>/<pod-name>::path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2621 opentracing-go-stdlib 0.0.0-20190519235532-cf7a6c988dc9

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1.2622 uri-js 4.4.1

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1.2623 lib-pq 1.10.4

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//go:build go1.10
// +build go1.10

package pq

import (  
"context"  
"database/sql/driver"
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.

// The returned connector is intended to be used with database/sql.OpenDB.

// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
    return c
}

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        return nil
    })
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}

if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}

if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

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

*   * cvt - IEEE floating point formatting routines.
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*   *

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* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/dgemmbench_test.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/dgemm.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/pardgemm_test.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/general_single.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/level2double_test.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/level3double.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/level3double_test.go
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* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/sgemm.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/level1double_test.go

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* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/dtrmvbench_test.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/cgo/dtrmvbench_test.go

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* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/internal/math32/sqrt_amd64.s
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/internal/math32/sqrt_amd64.go

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* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/cgo/doc.go
* /opt/cola/permits/1288072164_1647886905.03/0/blas-master-zip/blas-master/native/doc.go

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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Apache

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2662 logrus v1.8.1

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1.2663 netifaces 0.10.4-0.1build4

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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:

```bash
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:

```python
>>> import netifaces

Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'tw0']
```

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: [{'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:

```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:
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.

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

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:

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.

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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.

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netifaces 0.10.4

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```

Then if you enter

```python
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['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

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[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:

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>>> addrs[netifaces.AF_INET]
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```

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Let's look at a more interesting interface.

```python
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>>> 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'}]
```

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

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

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{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')}}
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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.

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>>> 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`. 

---

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1.2664 mime-types 2.1.34

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1.2674 npm-packlist 3.0.0

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1.2675 libncurses 6.1-1ubuntu1.18.04

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Current versions of the ncurses sources are found at
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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>,
David Engel <david@elo.ods.com>, Michael Alan Dorman
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.2676 mattetti-filebuffer 1.0.0

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1.2682 jackson-databind 2.9.10.8

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Date: Sat, 08 Jul 2000 20:27:21 +0100
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1.2706 argcomplete 1.12.3

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# Copyright 2012-2019, Andrey Kislyuk and argcomplete contributors.
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# Copy of __expand_tilde_by_ref from bash-completion
__python_argcomplete_expand_tilde_by_ref () {
  if [ "${!1:0:1}" = "~" ]; then
    if [ "$!{!}" != "$!{!//V/}" ]; then
      eval $1="${!}"/’${!#*/}’;
    else
      eval $1="${!}";
    fi;
  fi
}

# Run something, muting output or redirecting it to the debug stream
# depending on the value of _ARC_DEBUG.
# If ARGCOMPLETE_USE_TEMPFILES is set, use tempfiles for IPC.
__python_argcomplete_run() {
  if [[ -z \"ARGCOMPLETE_USE_TEMPFILES\" ]]; then
    __python_argcomplete_run_inner "$@"
    return
  fi
  local tmpfile="$(mktemp)"
  __ARGCOMPLETE_STDOUT_FILENAME="$tmpfile" __python_argcomplete_run_inner "$@"
  local code=$?
  cat "$tmpfile"
  rm "$tmpfile"
  return $code
}

__python_argcomplete_run_inner() {
  if [[ -z \"_ARC_DEBUG\" ]]; then
    "$@" 8>&1 9>&2 1>/dev/null 2>&1
  else
    "$@" 8>&1 9>&2 1>&9 2>&1
# Scan the beginning of an executable file ($1) for a regexp ($2). By default,  
# scan for the magic string indicating that the executable supports the  
# argcomplete completion protocol. By default, scan the first kilobyte;  
# if $3 is set to -n, scan until the first line break up to a kilobyte.  
__python_argcomplete_scan_head() {  
    read -s -r ${3:--N} 1024 < "$1"  
    [[ "$REPLY" =~ ${2:-PYTHON_ARGCOMPLETE_OK} ]]  
}  

__python_argcomplete_scan_head_noerr() {  
    __python_argcomplete_scan_head "$@" 2>/dev/null  
}  

__python_argcomplete_global() {  
    local executable=$1  
    __python_argcomplete_expand_tilde_by_ref executable  
    local ARGCOMPLETE=0  
    if [[ "$ executable" == python* ]] || [[ "$ executable" == pypy* ]]; then  
        if [[ "${COMP_WORDS[1]}" == -m ]]; then  
            if __python_argcomplete_run "executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then  
                ARGCOMPLETE=3  
            else  
                return  
            fi  
        elif [[ -f "${COMP_WORDS[1]}" ]]; then  
            if __python_argcomplete_scan_head_noerr "${COMP_WORDS[1]}"; then  
                local ARGCOMPLETE=2  
            else  
                return  
            fi  
        else  
            if __python_argcomplete_run "executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then  
                ARGCOMPLETE=3  
            else  
                return  
            fi  
        fi  
    elif type -P "$ executable" >/dev/null 2>&1; then  
        local SCRIPT_NAME=$(type -P "$ executable")  
        if (type -t pyenv && [[ "$ SCRIPT_NAME" = $(pyenv root)/shims/* ]]) >/dev/null 2>&1; then  
            local SCRIPT_NAME=$(pyenv which "$ executable")  
        fi  
        if __python_argcomplete_scan_head_noerr "$SCRIPT_NAME"; then  
            local ARGCOMPLETE=1  
        else  
            if __python_argcomplete_scan_head_noerr "$SCRIPT_NAME" "^\!\([^@%^0-9_]+\)"; then  
                local interpreter="$ BASH_REMATCH"  
                if __python_argcomplete_scan_head_noerr "$SCRIPT_NAME" "(PBR Generated)|[EASY-INSTALL-\(\)(SCRIPT|ENTRY-SCRIPT)\(DEV-SCRIPT\)]" \  
                    && "interpreter" "$ type -P python-argcomplete-check-easy-install-script" "$SCRIPT_NAME")" >/dev/null 2>&1; then  
                    then  
                        fi  
                    else  
                        return  
                    fi  
                else  
                    return  
                fi  
        fi  
    fi  
}
local ARGCOMPLETE=1
elif __python_argcomplete_run "$interpreter" -m argcomplete._check_console_script "$SCRIPT_NAME";
then
local ARGCOMPLETE=1
fi
fi
fi
if [[ $ARGCOMPLETE != 0 ]]; then
local IFS=$(echo -e '\v')
COMPREPLY=( $(_ARGCOMPLETE_IFS="$IFS" \
COMP_LINE="$COMP_LINE" \
COMP_POINT="$COMP_POINT" \
COMP_TYPE="$COMP_TYPE" \
_ARGCOMPLETE_COMP_WORDBREAKS="$COMP_WORDBREAKS" \
_ARGCOMPLETE=$ARGCOMPLETE \
_ARGCOMPLETE_SUPPRESS_SPACE=1 \
__python_argcomplete_run "$executable" "${COMP_WORDS[@]:1:ARGCOMPLETE-1}") )
if [[ $? != 0 ]]; then
unset COMPREPLY
elif [[ "${COMPREPLY-}" =~ [=/:]$ ]]; then
compopt -o nospace
fi
else
type -t _completion_loader | grep -q 'function' && _completion_loader "$@"
fi
}
complete -o default -o bashdefault -D -F _python_argcomplete_global
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1.2714 github.com/exponent-io/jsonpath
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1.2716 lazy-object-proxy 1.3.1 1

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Upstream-Name: lazy-object-proxy
Source: https://github.com/ionelmc/python-lazy-object-proxy

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1.2717 ema-qdisc 0.0.0-20180104102928-b307c22d3ce7

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1.2718 github.com/masterminds/sprig/v3

3.0.2

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1.2720 cookie-signature 1.0.6

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# cookie-signature

Sign and unsign cookies.

## Example
```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.2729 har-validator 5.1.5

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1.2730 lru-cache 7.4.2

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// // For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep

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* gosmith - https://github.com/dvyukov/gosmith

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*/

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"
    XMLName xml.Name  `xml:"LegalHold"
    Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  
// LegalHoldEnabled indicates legal hold is enabled  
LegalHoldEnabled LegalHoldStatus = "ON"

// LegalHoldDisabled indicates legal hold is disabled  
LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {  
return string(r)
}

// IsValid - check whether this legal hold status is valid or not.  
func (r LegalHoldStatus) IsValid() bool {  
return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {  
if status == nil {  
return nil, fmt.Errorf("Status not set")
}
if !status.IsValid() {  
return nil, fmt.Errorf("invalid legal hold status \%v", status)
}
legalHold := &objectLegalHold{  
Status: *status,
}
return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.  
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {  
// Input validation.  
if err := s3utils.CheckValidBucketName(bucketName); err != nil {  
return err
}
if err := s3utils.CheckValidObjectName(objectName); err != nil {  
return err
}
// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
def closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    //
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return nil, err
}
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
deferr closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil
}

package api

import {
    "io/ioutil"
    "strings"
    "time"
}

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
r := op.c.newRequest("GET", "/v1/operator/license")
        r.params.Set("signed", "1")
        r.setQueryOptions(q)
        _, resp, err := requireOK(op.c.doRequest(r))
        if err != nil {
            return "", err
        }
        defer resp.Body.Close()
        data, err := ioutil.ReadAll(resp.Body)
        if err != nil {
            return "", err
        }
        return string(data), nil
    }

    // LicenseReset will reset the license to the builtin one if it is still valid.
    // If the builtin license is invalid, the current license stays active.
    func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
        var reply LicenseReply
        r := op.c.newRequest("DELETE", "/v1/operator/license")
        r.setWriteOptions(opts)
        _, resp, err := requireOK(op.c.doRequest(r))
        if err != nil {
            return nil, err
        }
        defer resp.Body.Close()
        if err := decodeBody(resp, &reply); err != nil {
            return nil, err
        }
        return &reply, nil
    }

    func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
        var reply LicenseReply
        r := op.c.newRequest("PUT", "/v1/operator/license")
        r.setWriteOptions(opts)
        r.body = strings.NewReader(license)
        _, resp, err := requireOK(op.c.doRequest(r))
        if err != nil {
            return nil, err
        }
        defer resp.Body.Close()
        if err := decodeBody(resp, &reply); err != nil {
            return nil, err
        }
        return &reply, nil
    }
return nil, err
}

return &reply, nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Configurable modular Prometheus exporter for various node metrics.

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Portions of the client are based on code at:
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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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tomb - support for clean goroutine termination in Go.

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1.2733 mkdirp 1.0.4

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1.2734 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.2735 python-certifi 2018.1.18-2

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1.2736 quartz 2.3.2

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.2745 command-not-found 18.04.5

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1.2746 oslo-utils 4.12.2

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1.2752 fonts-dejavu 2.37 1

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1.2762 parse 0.0.0-20160405071501-a0175ee3bccc

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1.2763 go-openapi-jsonpointer 0.19.2

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1.2764 usbredir 0.7.1 1

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AES in libhcrypto

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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>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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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.

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Mersenne Twister

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

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

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

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

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Modified by Jack Jansen, CWI, July 1995:
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1.2786 github.com/antchfx/xmlquery 1.3.5

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That's all there is to it!

1.2791 gophercloud 0.6.0

1.2791.1 Available under license:

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to interpret it as a RESOURCE.
type UpdateResult struct {
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
Links struct {
Next string `json:"next"`
Previous string `json:"previous"`
} `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
Resources []Resource `json:"resources"
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
Resource *Resource `json:"resource"
}
err := r.ExtractInto(&s)
return s.Resource, err
}
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See
If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

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

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation
Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
```
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:
* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab
OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.
Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
go package testing

import {
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
    
}
`

// GetResult provides a Get result.
const GetResult = `{
    
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
    
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
    
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
    
}
`
```
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
Name: "resource two",

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==========================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE
Example to Delete a RESOURCE

*/
package RESOURCE

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.
The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.
Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of
'availability_zone_hints' in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that 'availability_zone_hints' is indeed part of the 'Network' object and that its type is a list of strings ('[ ]string').

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed
document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.2792 go-humanize 1.0.0

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1.2794 jsonpath-rw 1.4.0

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Metadata-Version: 1.1
Name: jsonpath-rw
Version: 1.4.0
Summary: A robust and significantly extended implementation of JSONPath for Python, with a clear AST for metaprogramming.
Home-page: https://github.com/kennknowles/python-jsonpath-rw
Author: Kenneth Knowles
Author-email: kenn.knowles@gmail.com
License: Apache 2.0
Description: Python JSONPath RW

https://github.com/kennknowles/python-jsonpath-rw

| Build Status | Test coverage | PyPi version | PyPi downloads |

This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with Python 2.6, 2.7, 3.2, 3.3.
*(On travis-ci there is a segfault when running the tests with pypy; I don't think the problem lies with this library).*

This library differs from other JSONPath implementations in that it is a full *language* implementation, meaning the JSONPath expressions are first class objects, easy to analyze, transform, parse, print, and extend. (You can also execute them :-)

Quick Start

----------
To install, use pip:

```
$ pip install jsonpath-rw
```

Then:

.. code:: python

```
$ python
>>> from jsonpath_rw import jsonpath, parse

# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
>>> jsonpath_expr = parse('foo[*].baz')

# Extracting values is easy
>>> [match.value for match in jsonpath_expr.find([{'foo': [{'baz': 1}, {'baz': 2}]}])]
[1, 2]

# Matches remember where they came from
>>> [str(match.full_path) for match in jsonpath_expr.find([{'foo': [{'baz': 1}, {'baz': 2}]}])]
['foo.[0].baz', 'foo.[1].baz']

# And this can be useful for automatically providing ids for bits of data that do not have them (currently a
global switch)
>>> jsonpath.auto_id_field = 'id'
>>> [match.value for match in parse('foo[*].id').find([{'foo': [{'id': 'bizzle'}, {'baz': 3}]}])]
['foo.bizzle', 'foo.[1]']

# A handy extension: named operators like `parent`
>>> [match.value for match in parse('a.*.b.`parent`.c').find([{'a': {'x': {'b': 1, 'c': 'number one'}, 'y': {'b': 2, 'c': 'number two'}}}])]
['number two', 'number one']

# You can also build expressions directly quite easily
>>> from jsonpath_rw.jsonpath import Fields
>>> from jsonpath_rw.jsonpath import Slice

>>> jsonpath_expr_direct = Fields('foo').child(Slice('')).child(Fields('baz'))  # This is equivalent
```

JSONPath Syntax
---------------

The JSONPath syntax supported by this library includes some additional
features and omits some problematic features (those that make it
unportable). In particular, some new operators such as ```|``` and
``where`` are available, and parentheses are used for grouping not for callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>$</code></td>
<td>The root object</td>
</tr>
<tr>
<td><code>this</code></td>
<td>The &quot;current&quot; object.</td>
</tr>
<tr>
<td><code>foo</code></td>
<td>More generally, this syntax allows &quot;named operators&quot; to extend JSONPath is arbitrary ways</td>
</tr>
<tr>
<td><em>field</em></td>
<td>Specified field(s), described below</td>
</tr>
<tr>
<td>```[``</td>
<td>Array access, described below (this is always unambiguous with field access)</td>
</tr>
</tbody>
</table>

Jsonpath operators:

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>jsonpath1</em> <code>.</code> <em>jsonpath2</em></td>
<td>All nodes matched by <em>jsonpath2</em> starting at any node matching <em>jsonpath1</em></td>
</tr>
<tr>
<td><em>jsonpath</em> ```[``</td>
<td>Array access, described below (this is always unambiguous with field access)</td>
</tr>
<tr>
<td><em>jsonpath1</em> ```</td>
<td>``` <em>jsonpath2</em></td>
</tr>
<tr>
<td><em>jsonpath1</em> <code>where</code> <em>jsonpath2</em></td>
<td>Any nodes matching <em>jsonpath1</em> with a child matching <em>jsonpath2</em></td>
</tr>
<tr>
<td><em>jsonpath1</em> ```</td>
<td>``` <em>jsonpath2</em></td>
</tr>
</tbody>
</table>

Field specifiers (*field*):

```

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>```[``</td>
<td>Array access, described below (this is always unambiguous with field access)</td>
</tr>
<tr>
<td>```]``</td>
<td>Array access, described below (this is always unambiguous with field access)</td>
</tr>
</tbody>
</table>
```

Field specifiers (*field*):
| Syntax                  | Meaning                                                                 |
|-------------------------+-------------------------------------------------------------------------|
| `fieldname`            | the field `fieldname` (from the "current" object)                       |
| `"fieldname"`          | same as above, for allowing special characters in the fieldname         |
| `'fieldname'`          | ditto                                                                   |
| `*`                     | any field                                                               |
| *field*, *field*        | either of the named fields (you can always build equivalent jsonpath using `[]`) |

Array specifiers (*idx*):

| Syntax                  | Meaning                                                                 |
|-------------------------+-------------------------------------------------------------------------|
| `[n]`                    | array index (may be comma-separated list)                                |
| `[start?:end?]`          | array slicing (note that *step* is unimplemented only due to lack of need thus far) |
| `[*]`                    | any array index                                                         |

Programmatic JSONPath

If you are programming in Python and would like a more robust way to create JSONPath expressions that does not depend on a parser, it is very easy to do so directly, and here are some examples:

- `Root()`
- `Slice(start=0, end=None, step=None)`
- `Fields('foo', 'bar')`
- `Index(42)`
- `Child(Fields('foo'), Index(42))`
- `Where(Slice(), Fields('subfield'))`
- `Descendants(jsonpath, jsonpath)`

Extensions

- *Path data*: The result of `JsonPath.find` provide detailed context
and path data so it is easy to traverse to parent objects, print full paths to pieces of data, and generate automatic ids.

- **Automatic Ids**: If you set `jsonpath_rw.auto_id_field` to a value other than None, then for any piece of data missing that field, it will be replaced by the JSONPath to it, giving automatic unique ids to any piece of data. These ids will take into account any ids already present as well.

- **Named operators**: Instead of using `@` to reference the currently object, this library uses ``this``. In general, any string contained in backquotes can be made to be a new operator, currently by extending the library.

More to explore
---------------

There are way too many jsonpath implementations out there to discuss. Some are robust, some are toy projects that still work fine, some are exercises. There will undoubtedly be many more. This one is made for use in released, maintained code, and in particular for programmatic access to the abstract syntax and extension. But JSONPath at its simplest just isn't that complicated, so you can probably use any of them successfully. Why not this one?

The original proposal, as far as I know:


Special note about PLY and docstrings
-------------------------------------

The main parsing toolkit underlying this library, `PLY <https://github.com/dabeaz/ply>`__, does not work with docstrings removed. For example, `PYTHONOPTIMIZE=2` and `python -OO` will both cause a failure.

Contributors
------------

This package is authored and maintained by:

- `Kenn Knowles <https://github.com/kennknowles>`__ (`@kennknowles <https://twitter.com/KennKnowles>`__)

with the help of patches submitted by `these contributors <https://github.com/kennknowles/python-jsonpath-rw/graphs/contributors>`__.

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   :target: https://travis-ci.org/kennknowles/python-jsonpath-rw

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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1010083383_1591372749.45/0/jsonpath-rw-1-4-0-tar-gz/jsonpath-rw-1.4.0/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1010083383_1591372749.45/0/jsonpath-rw-1-4-0-tar-gz/jsonpath-rw-1.4.0/jsonpath_rw.egg-info/PKG-INFO

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1.2800 go-openapi-jsonreference 0.19.5

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1.2801 python-jsonschema 2.6.0-2

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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://click.palletsprojects.com/
  Changes = https://click.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/click/
  Issue Tracker = https://github.com/pallets/click/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python

[options]
packages = find:
  package_dir = = src
  include_package_data = true
  python_requires = >= 3.6

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
  error

[coverage:run]
branch = true
source =
click
tests

[coverage:paths]
source =
click
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/click/__init__.py: F401

[mypy]
files = src/click
python_version = 3.6
disable_subclassing_any = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_config = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-colorama.*]
ignore_missing_imports = True

[mypy-importlib_metadata.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
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Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click/parser.py
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Metadata-Version: 2.1
Name: click
Version: 8.0.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/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`:

```text

.. code-block:: text
```
$ pip install -U click


A Simple Example
-----------------

.. 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(f"Hello, {name}!")

    if __name__ == '__main__':
        hello()

.. code-block:: text

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

Donate
------

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/click/
- Source Code: https://github.com/pallets/click
- Issue Tracker: https://github.com/pallets/click/issues
- Website: https://palletsprojects.com/p/click
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

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* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/PKG-INFO
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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/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/docs/contrib.rst
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Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/tests/test_formatting.py
1.2808 python-jsonpointer 1.10-1

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1.2809 prometheus-procfs 0.0.11

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procks provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.2812 zlib 1.2.11.dfsg 0ubuntu2
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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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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
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Otherwise, if the work is a derivative of the Library, you may
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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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
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io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
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io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
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io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

Found in path(s):
* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider

1.2815 go-units 0.4.0
1.2815.1 Available under license:

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1.2816 x-net 0.0.0-20190503192946-f4e77d36d62c

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1.2817 commons-lang3 2.6

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1.2824 goprotobuf 1.4.3

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1.2825 automat 0.6.0 1

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1.2826 pwgen 2.08-1
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1.2829 go-kit 0.10.0

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1.2831 openssl 1.0.2n-1ubuntu5.6

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1.2832 go-wordwrap 1.0.0

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1.2841 gls 4.20.0+incompatible

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// POSSIBILITY OF SUCH DAMAGE.
//
/**
 * This is bison grammar and productions for parsing all versions of the
 * GLSL shading languages.
 */
%

/* Based on:
ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a
matching Lex specification) for the April 30, 1985 draft version of the
ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that
original, as mentioned in the answer to question 17.25 of the comp.lang.c
FAQ, can be ftp'ed from ftp.uu.net, file useenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as
possible; please let me know if you discover discrepancies.

Jutta Degener, 1995
*/

#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"

using namespace glslang;

%

%define parse.error verbose
%union {
  struct {
    glslang::TSourceLoc loc;
    union {
      glslang::TString *string;
      int i;
      unsigned int u;
      long long i64;
      unsigned long long u64;
      bool b;
      double d;
    };
    glslang::TSymbol* symbol;
  } lex;
  struct {
    glslang::TSourceLoc loc;
    glslang::TOperator op;
    union {
      TIntermNode* intermNode;
      glslang::TIntermNodePair nodePair;
      glslang::TIntermTyped* intermTypedNode;
      glslang::TAttributes* attributes;
    };
    union {
      glslang::TPublicType type;
      glslang::TFunction* function;
      glslang::TParameter param;
      glslang::TTypeLoc typeLine;
      glslang::TTypeList* typeList;
      glslang::TArraySizes* arraySizes;
      glslang::TIdentifierList* identifierList;
    };
  } interm;
%

/* windows only pragma */
#ifdef _MSC_VER
  #pragma warning(disable : 4065)
  #pragma warning(disable : 4127)
  #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSTYPE*, TParseContext&);
%parse-param { glslang::TParseContext* pParseContext }
%lex-param { parseContext }
%pure-parser  // enable thread safety
%expect 1     // One shift reduce conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT

%token <lex> SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4
%token <lex> U32VEC2 U32VEC3 U32VEC4
%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%token <lex> F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%token <lex> MAT2X2 MAT2X3 MAT2X4
%token <lex> MAT3X2 MAT3X3 MAT3X4
%token <lex> MAT4X2 MAT4X3 MAT4X4
%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%token <lex> ATOMIC_UINT

// combined image/sampler
%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW
SAMPLER2DSHADOW
%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
SAMPLER1DARRAYSHADOW
%token <lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT
%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> ISAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%token <lex> ISAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%token <lex> ISAMPLEREXTERNALOES

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

// pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY ITEXTURE1DARRAY ITEXTURE2DARRAY
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY
$$ = \text{parseContext.handleVariable}($1.\text{loc}, $1.\text{symbol}, $1.\text{string});$
}
;

\text{primary_expression}
:
\text{variable_identifier} { 
  $$ = $1;
}

  | \text{INT32CONSTANT} { 
    \text{parseContext.explicitInt32Check}($1.\text{loc}, \text{"32-bit signed literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.i, $1.\text{loc}, \text{true});
  }

  | \text{UINT32CONSTANT} { 
    \text{parseContext.explicitInt32Check}($1.\text{loc}, \text{"32-bit signed literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.u, $1.\text{loc}, \text{true});
  }

  | \text{INTCONSTANT} { 
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.i, $1.\text{loc}, \text{true});
  }

  | \text{UINTCONSTANT} { 
    \text{parseContext.fullIntegerCheck}($1.\text{loc}, \text{"unsigned literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.u, $1.\text{loc}, \text{true});
  }

  | \text{INT64CONSTANT} { 
    \text{parseContext.int64Check}($1.\text{loc}, \text{"64-bit integer literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.i64, $1.\text{loc}, \text{true});
  }

  | \text{UINT64CONSTANT} { 
    \text{parseContext.int64Check}($1.\text{loc}, \text{"64-bit unsigned integer literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.u64, $1.\text{loc}, \text{true});
  }

  | \text{INT16CONSTANT} { 
    \text{parseContext.explicitInt16Check}($1.\text{loc}, \text{"16-bit integer literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}((\text{short})$1.i, $1.\text{loc}, \text{true});
  }

  | \text{UINT16CONSTANT} { 
    \text{parseContext.explicitInt16Check}($1.\text{loc}, \text{"16-bit unsigned integer literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}((\text{unsigned short})$1.u, $1.\text{loc}, \text{true});
  }

  | \text{FLOATCONSTANT} { 
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.d, \text{EbtFloat}, $1.\text{loc}, \text{true});
  }

  | \text{DOUBLECONSTANT} { 
    \text{parseContext.doubleCheck}($1.\text{loc}, \text{"double literal"});
    $$ = \text{parseContext.intermediate.addConstantUnion}($1.d, \text{EbtDouble}, $1.\text{loc}, \text{true});
  }

  | \text{FLOAT16CONSTANT} { 
    \text{parseContext.float16Check}($1.\text{loc}, \text{"half float literal"});
  }
$$ = \text{parseContext.intermediate.addConstantUnion}(\text{l.d, EbtFloat16, l.loc, true});$
}
| BOOLCONSTANT {
    $$ = \text{parseContext.intermediate.addConstantUnion}(\text{l.b, l.loc, true});$
}
| LEFT_PAREN expression RIGHT_PAREN {
    $$ = $2;
    if ($$->getAsConstantUnion())
        $$->getAsConstantUnion()->setExpression();
}
postfix_expression
: primary_expression {
    $$ = $1;
}
| postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
    $$ = \text{parseContext.handleBracketDereference}(\text{l2.loc, $1, $3});
}
| function_call {
    $$ = $1;
}
| postfix_expression DOT IDENTIFIER {
    $$ = \text{parseContext.handleDotDereference}($3.loc, $1, *$3.string);
}
| postfix_expression INC_OP {
    \text{parseContext.variableCheck}($1);
    \text{parseContext.lValueErrorCheck}($2.loc, "++", $1);
    $$ = \text{parseContext.handleUnaryMath}($2.loc, "++", \text{EOpPostIncrement}, $1);
}
| postfix_expression DEC_OP {
    \text{parseContext.variableCheck}($1);
    \text{parseContext.lValueErrorCheck}($2.loc, "--", $1);
    $$ = \text{parseContext.handleUnaryMath}($2.loc, "--", \text{EOpPostDecrement}, $1);
}
integer_expression
: expression {
    \text{parseContext.integerCheck}($1, "[[]");
    $$ = $1;
}
function_call
: function_call_or_method {
    $$ = \text{parseContext.handleFunctionCall}($1.loc, $1.function, $1.intermNode);
    \text{delete} $1.function;
function_call_or_method
  : function_call_generic {
    $$ = $1;
  }

function_call_generic
  : function_call_header_with_parameters RIGHT_PAREN {
    $$ = $1;
    $$ . loc = $2 . loc;
  }
  | function_call_header_no_parameters RIGHT_PAREN {
    $$ = $1;
    $$ . loc = $2 . loc;
  }

function_call_header_no_parameters
  : function_call_header VOID {
    $$ = $1;
  }
  | function_call_header {
    $$ = $1;
  }

function_call_header_with_parameters
  : function_call_header assignment_expression {
    TParameter param = { 0, new TType };
    param . type -> shallowCopy ($2 -> getType());
    $1 . function -> addParameter (param);
    $$ . function = $1 . function;
    $$ . intermNode = $2;
  }
  | function_call_header_with_parameters COMMA assignment_expression {
    TParameter param = { 0, new TType };
    param . type -> shallowCopy ($3 -> getType());
    $1 . function -> addParameter (param);
    $$ . function = $1 . function;
    $$ . intermNode = parseContext . intermediate . growAggregate ($1 . intermNode, $3, $2 . loc);
  }

function_call_header
  : function_identifier LEFT_PAREN {
$$S = S1;
$
;

// Grammar Note: Constructors look like functions, but are recognized as types.

function_identifier
   : type_specifier {  
      // Constructor
      $$.intermNode = 0;
      $$function = parseContext.handleConstructorCall($1.loc, $1);
   }
   | postfix_expression {  
      // Should be a method or subroutine call, but we haven't recognized the arguments yet.
      //
      $$function = 0;
      $$intermNode = 0;
      TIntermMethod* method = $1->getAsMethodNode();
      if (method) {  
         $$function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
         $$intermNode = method->getObject();
      } else {  
         TIntermSymbol* symbol = $1->getAsSymbolNode();
         if (symbol) {  
            parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
            TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
            $$function = function;
         } else  
            parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", ", ", ");
      }

      if ($$.function == 0) {  
         // error recover
         TString empty("");
         $$function = new TFunction(&empty, TType(EbtVoid), EOpNull);
      }
   }

if ($$.function == 0) {  
   // error recover
   TString empty("");
   $$function = new TFunction(&empty, TType(EbtVoid), EOpNull);
}

unary_expression
   : postfix_expression {  
      parseContext.variableCheck($1);
      $$ = $1;
      if (TIntermMethod* method = $1->getAsMethodNode())  
         parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), ", ");
   }
INC_OP unary_expression {
parseContext.lValueErrorCheck($1.loc, "++", $2);
$$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2); }
}

DEC_OP unary_expression {
parseContext.lValueErrorCheck($1.loc, "--", $2);
$$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2); }
}

unary_operator unary_expression {
if ($1.op != EOpNull) {
  char errorOp[2] = {0, 0};
  switch($1.op) {
  case EOpNegative:   errorOp[0] = '-'; break;
  case EOpLogicalNot: errorOp[0] = '!'; break;
  case EOpBitwiseNot: errorOp[0] = '~'; break;
  default: break; // some compilers want this
  }
  $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
} else {
  $$ = $2;
  if ($$->getAsConstantUnion())
    $$->getAsConstantUnion()->setExpression();
}
}

// Grammar Note: No traditional style type casts.

unary_operator
  : PLUS  { $$.loc = $1.loc; $$ .op = EOpNull; }
| DASH  { $$ .loc = $1.loc; $$ .op = EOpNegative; }
| BANG  { $$ .loc = $1.loc; $$ .op = EOpLogicalNot; }
| TILDE { $$ .loc = $1.loc; $$ .op = EOpBitwiseNot;
    parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
;
// Grammar Note: No '*' or '&' unary ops. Pointers are not supported.

multiplicative_expression
  : unary_expression { $$ = $1; }
| multiplicative_expression STAR unary_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "+", EOpMul, $1, $3); 
  if ($$ == 0)
    $$ = $1;
}
| multiplicative_expression SLASH unary_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3); 
  if ($$ == 0)
    $$ = $1;
}
multiplicative_expression PERCENT unary_expression {
    parseContext.fullIntegerCheck($2.loc, "%");
    $$ = parseContext.handleBinaryMath($2.loc, ",\%", EOpMod, $1, $3);
    if ($$ == 0)
        $$ = $1;
}

additive_expression
    : multiplicative_expression { $$ = $1; }
    | additive_expression PLUS multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | additive_expression DASH multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "-", EOpSub, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }

shift_expression
    : additive_expression { $$ = $1; }
    | shift_expression LEFT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift left");
        $$ = parseContext.handleBinaryMath($2.loc, ",<<", EOpLeftShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | shift_expression RIGHT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift right");
        $$ = parseContext.handleBinaryMath($2.loc, ",>>, EOpRightShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }

relational_expression
    : shift_expression { $$ = $1; }
    | relational_expression LEFT_ANGLE shift_expression {
        $$ = parseContext.handleBinaryMath($2.loc, ",<", EOpLessThan, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | relational_expression RIGHT_ANGLE shift_expression {
        $$ = parseContext.handleBinaryMath($2.loc, ",>", EOpGreaterThan, $1, $3);
        if ($$ == 0)
```java
$$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression LE_OP shift_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "\le", EOpLessThanEqual, $1, $3);
  if ($$ == 0)
    $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression GE_OP shift_expression {
  $$ = parseContext.handleBinaryMath($2.loc, "\ge", EOpGreaterThanEqual, $1, $3);
  if ($$ == 0)
    $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
|

equality_expression
  : relational_expression { $$ = $1; }
| equality_expression EQ_OP relational_expression {
  parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
  parseContext.opaqueCheck($2.loc, $1->getType(), "==");
  parseContext.specializationCheck($2.loc, $1->getType(), "==");
  $$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
  if ($$ == 0)
    $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| equality_expression NE_OP relational_expression {
  parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
  parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
  parseContext.specializationCheck($2.loc, $1->getType(), "!=");
  $$ = parseContext.handleBinaryMath($2.loc, "!=", EOpNotEqual, $1, $3);
  if ($$ == 0)
    $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
|

and_expression
  : equality_expression { $$ = $1; }
| and_expression AMPERSAND equality_expression {
  parseContext.fullIntegerCheck($2.loc, "bitwise and");
  $$ = parseContext.handleBinaryMath($2.loc, ",&", EOpAnd, $1, $3);
  if ($$ == 0)
    $$ = $1;
}
|

exclusive_or_expression
  : and_expression { $$ = $1; }
| exclusive_or_expression CARET and_expression {
  parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
```
$$ = \text{parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);} \\
\text{if ($$ == 0)} \\
\quad $$ = $1; \\
\}

inclusive_or_expression  

: exclusive_or_expression { $$ = $1; } 
| inclusive_or_expression VERTICAL_BAR exclusive_or_expression { 
\text{parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");} 
$$ = \text{parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);} \\
\text{if ($$ == 0)} \\
\quad $$ = $1; \\
\}

logical_and_expression  

: inclusive_or_expression { $$ = $1; } 
| logical_and_expression AND_OP inclusive_or_expression { 
$$ = \text{parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);} \\
\text{if ($$ == 0)} \\
\quad $$ = \text{parseContext.intermediate.addConstantUnion(false, $2.loc);} \\
\}

logical_xor_expression  

: logical_and_expression { $$ = $1; } 
| logical_xor_expression XOR_OP logical_and_expression { 
$$ = \text{parseContext.handleBinaryMath($2.loc, "^^", EOpLogicalXor, $1, $3);} \\
\text{if ($$ == 0)} \\
\quad $$ = \text{parseContext.intermediate.addConstantUnion(false, $2.loc);} \\
\}

logical_or_expression  

: logical_xor_expression { $$ = $1; } 
| logical_or_expression OR_OP logical_xor_expression { 
$$ = \text{parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);} \\
\text{if ($$ == 0)} \\
\quad $$ = \text{parseContext.intermediate.addConstantUnion(false, $2.loc);} \\
\}

conditional_expression  

: logical_or_expression { $$ = $1; } 
| logical_or_expression QUESTION { 
++\text{parseContext.controlFlowNestingLevel}; 
}
expression COLON assignment_expression {
--parseContext.controlFlowNestingLevel;
parseContext.boolCheck($2.loc, $1);
parseContext.rValueErrorCheck($2.loc, "?", $1);
parseContext.rValueErrorCheck($5.loc, ":", $4);
parseContext.rValueErrorCheck($5.loc, ":", $6);
$$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
if ($$ == 0) {
parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
$$ = $6;
}
}

assignment_expression
: conditional_expression { $$ = $1; }
| unary_expression assignment_operator assignment_expression {
parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
parseContext.opaqueCheck($2.loc, $1->getType(), ";");
parseContext.specializationCheck($2.loc, $1->getType(), ";");
parseContext.lValueErrorCheck($2.loc, "assign", $1);
parseContext.rValueErrorCheck($2.loc, "assign", $3);
$$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
if ($$ == 0) {
parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
$$ = $1;
}
}

assignment_operator
: EQUAL {
$$.$loc = $1.$loc;
$$.$op = EOpAssign;
}
| MUL_ASSIGN {
$$.$loc = $1.$loc;
$$.$op = EOpMulAssign;
}
| DIV_ASSIGN {
$$.$loc = $1.$loc;
$$.$op = EOpDivAssign;
}
| MOD_ASSIGN {
parseContext.fullIntegerCheck($1.$loc, ":");
$$.$loc = $1.$loc;
$$.$op = EOpModAssign;
}
| ADD_ASSIGN {  
|   $$loc = $1.loc;
|   $$op = EOpAddAssign;
| }
| SUB_ASSIGN {  
|   $$loc = $1.loc;
|   $$op = EOpSubAssign;
| }
| LEFT_ASSIGN {  
|   parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
|   $$loc = $1.loc; $$op = EOpLeftShiftAssign;
| }
| RIGHT_ASSIGN {  
|   parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
|   $$loc = $1.loc; $$op = EOpRightShiftAssign;
| }
| AND_ASSIGN {  
|   parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
|   $$loc = $1.loc; $$op = EOpAndAssign;
| }
| XOR_ASSIGN {  
|   parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
|   $$loc = $1.loc; $$op = EOpExclusiveOrAssign;
| }
| OR_ASSIGN {  
|   parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
|   $$loc = $1.loc; $$op = EOpInclusiveOrAssign;
| }
| ;

expression
: assignment_expression {
    $$ = $1;
}  
| expression COMMA assignment_expression {
|   parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
|   $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
|   if ($$ == 0) {
|       parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
|       $$ = $3;
|   }
| }
| ;

constant_expression
: conditional_expression {
|   parseContext.constantValueCheck($1, "");
|   $$ = $1;
declaration

: function_prototype SEMICOLON {
    parseContext.handleFunctionDeclator($1.loc, *$1.function, true /* prototype */);
    $$ = 0;
    // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
}

<table>
<thead>
<tr>
<th>init_declarator_list SEMICOLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>if ($1.intermNode &amp;&amp; $1.intermNode-&gt;getAsAggregate())</td>
</tr>
<tr>
<td>$1.intermNode-&gt;getAsAggregate()-&gt;setOperator(EOpSequence);</td>
</tr>
<tr>
<td>$$ = $1.intermNode;</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PRECISION precision_qualifier type_specifier SEMICOLON</th>
</tr>
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<tbody>
<tr>
<td>parseContext.profileRequires($1.loc, ENoProfile, 130, 0, &quot;precision statement&quot;);</td>
</tr>
</tbody>
</table>

// lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
$$ = 0;

<table>
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<tr>
<th>block_structure SEMICOLON</th>
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</thead>
<tbody>
<tr>
<td>parseContext.declareBlock($1.loc, *$1.typeList);</td>
</tr>
<tr>
<td>$$ = 0;</td>
</tr>
</tbody>
</table>

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<th>block_structure IDENTIFIER SEMICOLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.declareBlock($1.loc, *$1.typeList, $2.string);</td>
</tr>
<tr>
<td>$$ = 0;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>block_structure IDENTIFIER array_specifier SEMICOLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);</td>
</tr>
<tr>
<td>$$ = 0;</td>
</tr>
</tbody>
</table>

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<tr>
<th>type_qualifier SEMICOLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);</td>
</tr>
<tr>
<td>parseContext.updateStandaloneQualifierDefaults($1.loc, $1);</td>
</tr>
<tr>
<td>$$ = 0;</td>
</tr>
</tbody>
</table>

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<th>type_qualifier IDENTIFIER SEMICOLON</th>
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</thead>
<tbody>
<tr>
<td>parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);</td>
</tr>
<tr>
<td>parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);</td>
</tr>
<tr>
<td>$$ = 0;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>type_qualifier IDENTIFIER identifier_list SEMICOLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);</td>
</tr>
<tr>
<td>$3-&gt;push_back($2.string);</td>
</tr>
<tr>
<td>parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);</td>
</tr>
</tbody>
</table>
$S = 0;
}
;

block_structure
  : type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list RIGHT_BRACE {
    --parseContext.structNestingLevel;
parseContext.blockName = $2.string;
parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.currentBlockQualifier = $1.qualifier;
$$.loc = $1.loc;
$$.typeList = $5;
}

identifier_list
  : COMMA IDENTIFIER {
      $S = new TIdentifierList;
      $S->push_back($2.string);
    }
  | identifier_list COMMA IDENTIFIER {
      $S = $1;
      $S->push_back($3.string);
    }
  ;

function_prototype
  : function_declarator RIGHT_PAREN {
      $$.function = $1;
      $$.loc = $2.loc;
    }
  ;

function_declarator
  : function_header {
      $S = $1;
    }
  | function_header_with_parameters {
      $S = $1;
    }
  ;

function_header_with_parameters
  : function_header parameter_declaration {
      // Add the parameter
      $S = $1;
    }

if ($2.param.type->getBasicType() != EbtVoid)
    $1->addParameter($2.param);
else
    delete $2.param.type;
}

function_header_with_parameters COMMA parameter_declaration {
    //
    // Only first parameter of one-parameter functions can be void
    // The check for named parameters not being void is done in parameter_declarator
    //
    if ($3.param.type->getBasicType() == EbtVoid) {
        //
        // This parameter > first is void
        //
        parseContext.error($2.loc, "cannot be an argument type except for '(void)'", "void", "");
        delete $3.param.type;
    } else {
        // Add the parameter
        $$ = $1;
        $1->addParameter($3.param);
    }
}

function_header
    : fully_specified_type IDENTIFIER LEFT_PAREN {
        if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
            parseContext.error($2.loc, "no qualifiers allowed for function return",
                GetStorageQualifierString($1.qualifier.storage), "");
        }
        if ($1.arraySizes)
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

        // Add the function as a prototype after parsing it (we do not support recursion)
        TFunction *function;
        TType type($1);

        // Potentially rename shader entry point function. No-op most of the time.
        parseContext.renameShaderFunction($2.string);

        // Make the function
        function = new TFunction($2.string, type);
        $$ = function;
    }

parameter_declarator
    // Type + name
: type_specifier IDENTIFIER {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    if ($1.basicType == EbtVoid) {
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    }
    parseContext.reservedErrorCheck($2.loc, *$2.string);
    TParameter param = { $2.string, new TType($1)};
    $$.loc = $2.loc;
    $$.param = param;
}
| type_specifier IDENTIFIER array_specifier {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);
    parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
    parseContext.reservedErrorCheck($2.loc, *$2.string);
    parseContext.arrayDimMerge(*param.type, $3.arraySizes);
    $$.loc = $2.loc;
    $$.param = param;
}
| parameter_declaration
  //
  // With name
  //
  : type_qualifier parameter_declarator {
    $$ = $2;
    if ($1.qualifier.precision != EpqNone)
        $$.$param.type->getQualifier().precision = $1.qualifier.precision;
    parseContext.precisionQualifierCheck($$.loc, $$.$param.type->getBasicType(), $$.$param.type->getQualifier());
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, $$.$param.type);
    parseContext.paramCheckFix($1.loc, $1.qualifier, $$.$param.type);
Open Source Used In SMI 2021.01.0-Apr-2022  28916

| parameter_declarator {
  $$ = $1;
  
  parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
  parseContext.paramCheckFix($1.loc, EvqTemporary, *$$, param.type);
  parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
}

// Without name
//
| type_qualifier parameter_type_specifier {
  $$ = $2;
  if ($1.qualifier.precision != EpqNone)
    $$, param.type->getQualifier().precision = $1.qualifier.precision;
  parseContext.precisionQualifierCheck($1.loc, $$, param.type->getBasicType(), $$, param.type->getQualifier());
  
  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$, param.type);
  parseContext.paramCheckFix($1.loc, $1.qualifier, *$$, param.type);
}

| parameter_type_specifier {
  $$ = $1;
  
  parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
  parseContext.paramCheckFix($1.loc, EvqTemporary, *$$, param.type);
  parseContext.precisionQualifierCheck($$.loc, $$, param.type->getBasicType(), $$, param.type->getQualifier());
}

;parameter_type_specifier : type_specifier {
  TParameter param = { 0, new TType($1) };
  $$, param = param;
  if ($1.arraySizes)
    parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}

;init_declarator_list : single_declaration {
  $$ = $1;
}

| init_declarator_list COMMA IDENTIFIER {
  $$ = $1;
  parseContext.declareVariable($3.loc, *$3.string, $1.type);
}

| init_declarator_list COMMA IDENTIFIER array_specifier {
```c
$$ = $1;  
parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
```

```c
| init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {  
| $$.type = $1.type;  
| TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);  
| $$$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
```

```c
| init_declarator_list COMMA IDENTIFIER EQUAL initializer {  
| $$$.type = $1.type;  
| TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);  
| $$$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $4.loc);
```

```c
| ;
```

```c
single_declaration  
| : fully_specified_type {  
| $$$.type = $1;  
| $$$.intermNode = 0;  
| parseContext.declareTypeDefaults($$.loc, $$$.type);
```

```c
| fully_specified_type IDENTIFIER {  
| $$$.type = $1;  
| $$$.intermNode = 0;  
| parseContext.declareVariable($2.loc, *$2.string, $1);
```

```c
| fully_specified_type IDENTIFIER array_specifier {  
| $$$.type = $1;  
| $$$.intermNode = 0;  
| parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
```

```c
| fully_specified_type IDENTIFIER array_specifier EQUAL initializer {  
| $$$.type = $1;  
| TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);  
| $$$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
```

```c
| fully_specified_type IDENTIFIER EQUAL initializer {  
| $$$.type = $1;  
| TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);  
| $$$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
```

```c
// Grammar Note: No 'enum', or 'typedef'.

```c
fully_specified_type  
| : type_specifier {  
| $$ = $1;
```
parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
if ($1.arraySizes) {
    parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
}

parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
}

<table>
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<th>type_qualifier type_specifier</th>
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<tbody>
<tr>
<td>parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);</td>
</tr>
<tr>
<td>parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);</td>
</tr>
</tbody>
</table>

if ($2.arraySizes) {
    parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
}

if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
    $2.arraySizes = 0;

parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
$2.shaderQualifiers.merge($1.shaderQualifiers);
parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

$$ = $2;

if (!$$.qualifier.isInterpolation() &&
    ((parseContext.language == EShLangVertex && $$.qualifier.storage == EvqVaryingOut) ||
     (parseContext.language == EShLangFragment && $$.qualifier.storage == EvqVaryingIn)))
    $$qualifier.smooth = true;

invariant_qualifier
  : INVARIANT |
  parseContext.globalCheck($1.loc, "invariant"); |
  parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant"); |
  $$$.init($1.loc); |
  $$$.qualifier.invariant = true;
}

interpolation_qualifier
  : SMOOTH |
  parseContext.globalCheck($1.loc, "smooth"); |
  parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth"); |
  parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
|FLAT {
| $$\text{parseContext}.$$globalCheck($1.loc, "flat");
| $$\text{parseContext}.$$profileRequires($1.loc, ENoProfile, 130, 0, "flat");
| $$\text{parseContext}.$$profileRequires($1.loc, EEsProfile, 300, 0, "flat");
| $$\text{init}$$($1.loc);
| $$\text{qualifier}.$$smooth = true;
}

|NOPERSPECTIVE {
| $$\text{parseContext}.$$globalCheck($1.loc, "noperspective");
| $$\text{parseContext}.$$requireProfile($1.loc, ~EEsProfile, "noperspective");
| $$\text{parseContext}.$$profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
| $$\text{init}$$($1.loc);
| $$\text{qualifier}.$$nopersp = true;
}

|__EXPLICITINTERPAMD {
| #ifdef AMD_EXTENSIONS
| $$\text{parseContext}.$$globalCheck($1.loc, "__explicitInterpAMD");
| $$\text{parseContext}.$$profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
| $$\text{parseContext}.$$profileRequires($1.loc, ECompatibilityProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
| $$\text{init}$$($1.loc);
| $$\text{qualifier}.$$explicitInterp = true;
#endif
|
;

layout_qualifier
: LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
| $$S = S3;
|
;

layout_qualifier_id_list
: layout_qualifier_id {
| $$S = S1;
|
}

| layout_qualifier_id_list COMMA layout_qualifier_id {
| $$S = S1;
| $$\text{shaderQualifiers}.$$merge($3.shaderQualifiers);
| $$\text{parseContext}.$$mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
|
}

layout_qualifier_id
: IDENTIFIER {

$$.init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
  }
  | IDENTIFIER EQUAL constant_expression {
    $$.init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
  }
  | SHARED { // because "shared" is both an identifier and a keyword
    $$.init($1.loc);
    TString strShared("shared");
    parseContext.setLayoutQualifier($1.loc, $$, strShared);
  }
  ;

precise_qualifier
  : PRECISE {
    parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5, "precise");
    parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
    $$=init($1.loc);
    $$=qualifier.noContraction = true;
  }
  ;

type_qualifier
  : single_type_qualifier {
    $$ = $1;
  }
  | type_qualifier single_type_qualifier {
    $$ = $1;
    if ($$.basicType == EbtVoid)
      $$=basicType = $2.basicType;

    $$=shaderQualifiers.merge($2.shaderQualifiers);
    parseContext.mergeQualifiers($$.loc, $$=qualifier, $2.qualifier, false);
  }
  ;

single_type_qualifier
  : storage_qualifier {
    $$ = $1;
  }
  | layout_qualifier {
    $$ = $1;
  }
  | precision_qualifier {
    parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
    $$ = $1;
interpolation_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}

invariant_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}

precise_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}

storage_qualifier :
  CONST {
    $$ .init($1.loc);
    $$ .qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
  }

ATTRIBUTE {
  parseContext.requireStage($1.loc, EShLangVertex, "attribute");
  parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");
  parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
  parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
  parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

  parseContext.globalCheck($1.loc, "attribute");

  $$ .init($1.loc);
  $$ .qualifier.storage = EvqVaryingIn;
}

VARYING {
  parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
  parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
  parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
  parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

  parseContext.globalCheck($1.loc, "varying");

  $$ .init($1.loc);
  if (parseContext.language == EShLangVertex)
    $$ .qualifier.storage = EvqVaryingOut;
  else
    $$ .qualifier.storage = EvqVaryingIn;
}

INOUT {
  parseContext.globalCheck($1.loc, "inout");
parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
parseContext.requireStage($1.loc, EShLangCompute, "shared");
$$$.init($1.loc);
$$$.qualifier.storage = EvqShared;
}
| COHERENT {
  $$$init($1.loc);
  $$$qualifier.coherent = true;
}
| VOLATILE {
  $$$init($1.loc);
  $$$qualifier.volatile = true;
}
| RESTRICT {
  $$$init($1.loc);
  $$$qualifier.restrict = true;
}
| READONLY {
  $$$init($1.loc);
  $$$qualifier.readonly = true;
}
| WRITEONLY {
  $$$init($1.loc);
  $$$qualifier.writeonly = true;
}
| SUBROUTINE {
  parseContext.spvRemoved($1.loc, "subroutine");
  parseContext.globalCheck($1.loc, "subroutine");
  parseContext.unimplemented($1.loc, "subroutine");
  $$$init($1.loc);
}
| SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {
  parseContext.spvRemoved($1.loc, "subroutine");
  parseContext.globalCheck($1.loc, "subroutine");
  parseContext.unimplemented($1.loc, "subroutine");
  $$$init($1.loc);
}

; type_name_list
  : IDENTIFIER {
    // TODO
  }
| type_name_list COMMA IDENTIFIER {
  // TODO: 4.0 semantics: subroutines
  // 1) make sure each identifier is a type declared earlier with SUBROUTINE
  // 2) save all of the identifiers for future comparison with the declared function
  }
type_specifier
: type_specifier_nonarray {
  $$ = $1;
  $$.qualifier.precision = parseContext.getDefaultPrecision($$);
}
| type_specifier_nonarray array_specifier {
  parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
  $$ = $1;
  $$.qualifier.precision = parseContext.getDefaultPrecision($$);
  $$.arraySizes = $2.arraySizes;
}
;
;
array_specifier
: LEFT_BRACKET RIGHT_BRACKET {
  $$.loc = $1.loc;
  $$arraySizes = new TArraySizes;
  $$arraySizes->addInnerSize();
}
| LEFT_BRACKET conditional_expression RIGHT_BRACKET {
  $$.loc = $1.loc;
  $$arraySizes = new TArraySizes;

  TArraySize size;
  parseContext.arraySizeCheck($2->getLoc(), $2, size);
  $$arraySizes->addInnerSize(size);
}
| array_specifier LEFT_BRACKET RIGHT_BRACKET {
  $$ = $1;
  $$arraySizes->addInnerSize();
}
| array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
  $$ = $1;

  TArraySize size;
  parseContext.arraySizeCheck($3->getLoc(), $3, size);
  $$arraySizes->addInnerSize(size);
}
;
;
type_specifier_nonarray
: VOID {
  $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$basicType = EbtVoid;
}
| FLOAT {
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtFloat;
}
| DOUBLE {
parseContext.doubleCheck($1.loc, "double");
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtDouble;
}
| FLOAT16_T {
parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtFloat16;
}
| FLOAT32_T {
parseContext.explicitFloat32Check($1.loc, "float32_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtFloat;
}
| FLOAT64_T {
parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtDouble;
}
| INT {
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt;
}
| UINT {
parseContext.fullIntegerCheck($1.loc, "unsigned integer");
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint;
}
| INT8_T {
parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt8;
}
| UINT8_T {
parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint8;
}
| INT16_T {
parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt16;
}
| UINT16_T {
parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer");
parseContext.symbolTable.atBuiltInLevel();
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtUint16;
}

<table>
<thead>
<tr>
<th>INT32_T</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.explicitInt32Check($1.loc, &quot;32-bit signed integer&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$$basicType = EbtInt;</td>
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</tbody>
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<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtInt64;</td>
</tr>
</tbody>
</table>

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<th>UINT64_T</th>
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<td>parseContext.int64Check($1.loc, &quot;64-bit unsigned integer&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtUint64;</td>
</tr>
</tbody>
</table>

<table>
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<th>BOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtBool;</td>
</tr>
</tbody>
</table>

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<tr>
<th>VEC2</th>
</tr>
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<tbody>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtFloat;</td>
</tr>
<tr>
<td>$$setVector(2);</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>VEC3</th>
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<tbody>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtFloat;</td>
</tr>
<tr>
<td>$$setVector(3);</td>
</tr>
</tbody>
</table>

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<tr>
<th>VEC4</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtFloat;</td>
</tr>
<tr>
<td>$$setVector(4);</td>
</tr>
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</table>

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<th>DVEC2</th>
</tr>
</thead>
<tbody>
<tr>
<td>parseContext.doubleCheck($1.loc, &quot;double vector&quot;);</td>
</tr>
<tr>
<td>$$init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
</tbody>
</table>
$.basicType = EbtDouble;
$.setVector(2);
}
| DVEC3 |
parseContext.doubleCheck($1.loc, "double vector");
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setVector(3);
}
| DVEC4 |
parseContext.doubleCheck($1.loc, "double vector");
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setVector(4);
}
| F16VEC2 |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat16;
$.setVector(2);
}
| F16VEC3 |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat16;
$.setVector(3);
}
| F16VEC4 |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat16;
$.setVector(4);
}
| F32VEC2 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setVector(2);
}
| F32VEC3 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setVector(3);
}
| F32VEC4 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setVector(4);
}
| F64VEC2 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setVector(2);
}
| F64VEC3 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setVector(3);
}
| F64VEC4 {
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtDouble;
$.setVector(4);
}
| BVEC2 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtBool;
$.setVector(2);
}
| BVEC3 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtBool;
$.setVector(3);
}
| BVEC4 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtBool;
$.setVector(4);
}
| IVEC2 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt;
$.setVector(2);
}
| IVEC3 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt;
$.setVector(3);
}
| IVEC4 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
}
```java
$$_.basicType = EbtInt;
$$_.setVector(4);
}
| I8VEC2 {
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt8;
$$_.setVector(2);
}
| I8VEC3 {
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt8;
$$_.setVector(3);
}
| I8VEC4 {
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt8;
$$_.setVector(4);
}
| I16VEC2 {
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt16;
$$_.setVector(2);
}
| I16VEC3 {
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt16;
$$_.setVector(3);
}
| I16VEC4 {
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt16;
$$_.setVector(4);
}
| I32VEC2 {
parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$_.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$_.basicType = EbtInt;
$$_.setVector(2);
}
```
I32VEC3 {
  parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
  parseContext.symbolTable.atBuiltInLevel());
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtInt;
  $$$.setVector(3);
}

I32VEC4 {
  parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
  parseContext.symbolTable.atBuiltInLevel());
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtInt;
  $$$.setVector(4);
}

I64VEC2 {
  parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtInt64;
  $$$.setVector(2);
}

I64VEC3 {
  parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtInt64;
  $$$.setVector(3);
}

I64VEC4 {
  parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtInt64;
  $$$.setVector(4);
}

UVEC2 {
  parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtUint;
  $$$.setVector(2);
}

UVEC3 {
  parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$$.basicType = EbtUint;
  $$$.setVector(3);
}

UVEC4 {
  parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint;
$$.setVector(4);
}
| U8VEC2 {
      parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
      parseContext.symbolTable.atBuiltInLevel());
      $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$$.basicType = EbtUint8;
      $$$.setVector(2);
    }
| U8VEC3 {
      parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
      parseContext.symbolTable.atBuiltInLevel());
      $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$$.basicType = EbtInt8;
      $$$.setVector(3);
    }
| U8VEC4 {
      parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
      parseContext.symbolTable.atBuiltInLevel());
      $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$$.basicType = EbtUint8;
      $$$.setVector(4);
    }
| U16VEC2 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
      parseContext.symbolTable.atBuiltInLevel());
      $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$$.basicType = EbtUint16;
      $$$.setVector(2);
    }
| U16VEC3 {
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    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint;
$.setVector(4);
}
| U64VEC2 |
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(2);
}
| U64VEC3 |
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(3);
}
| U64VEC4 |
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtUint64;
$.setVector(4);
}
| MAT2 |
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 2);
}
| MAT3 |
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(3, 3);
}
| MAT4 |
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```java
$.basicType = EbtFloat;
$.setMatrix(4, 4);
}
| MAT2X2 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 2);
}
| MAT2X3 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 3);
}
| MAT2X4 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(2, 4);
}
| MAT3X2 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(3, 2);
}
| MAT3X3 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(3, 3);
}
| MAT3X4 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(3, 4);
}
| MAT4X2 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(4, 2);
}
| MAT4X3 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(4, 3);
}
| MAT4X4 {
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtFloat;
$.setMatrix(4, 4);
}
```
<table>
<thead>
<tr>
<th>DMAT2</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(2, 2);
``` |

<table>
<thead>
<tr>
<th>DMAT3</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(3, 3);
``` |

<table>
<thead>
<tr>
<th>DMAT4</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(4, 4);
``` |

<table>
<thead>
<tr>
<th>DMAT2X2</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(2, 2);
``` |

<table>
<thead>
<tr>
<th>DMAT2X3</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(2, 3);
``` |

<table>
<thead>
<tr>
<th>DMAT2X4</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(2, 4);
``` |

<table>
<thead>
<tr>
<th>DMAT3X2</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(3, 2);
``` |

<table>
<thead>
<tr>
<th>DMAT3X3</th>
</tr>
</thead>
</table>
| ```
parseContext.doubleCheck($1.loc, "double matrix");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.basicType = EbtDouble;
$$.setMatrix(3, 3);
``` |
| DMAT3X4 | parseContext.doubleCheck($1.loc, "double matrix");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtDouble;
|        | $$$.setMatrix(3, 4);
|       |
| DMAT4X2 | parseContext.doubleCheck($1.loc, "double matrix");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtDouble;
|        | $$$.setMatrix(4, 2);
|       |
| DMAT4X3 | parseContext.doubleCheck($1.loc, "double matrix");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtDouble;
|        | $$$.setMatrix(4, 3);
|       |
| DMAT4X4 | parseContext.doubleCheck($1.loc, "double matrix");
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtDouble;
|        | $$$.setMatrix(4, 4);
|       |
| F16MAT2 | parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtFloat16;
|        | $$$.setMatrix(2, 2);
|       |
| F16MAT3 | parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtFloat16;
|        | $$$.setMatrix(3, 3);
|       |
| F16MAT4 | parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
|        | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|        | $$$.basicType = EbtFloat16;
|        | $$$.setMatrix(4, 4);
|       |
| F16MAT2X2 | parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
|          | $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|          | $$$.basicType = EbtFloat16;
|          | $$$.setMatrix(2, 2);
| F16MAT2X3 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(2, 3); |
| } |
| F16MAT2X4 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(2, 4); |
| } |
| F16MAT3X2 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(3, 2); |
| } |
| F16MAT3X3 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(3, 3); |
| } |
| F16MAT3X4 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(3, 4); |
| } |
| F16MAT4X2 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(4, 2); |
| } |
| F16MAT4X3 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(4, 3); |
| } |
| F16MAT4X4 { |
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel()); |
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$$.basicType = EbtFloat16; |
| $$$.setMatrix(4, 4); |
| }
| F32MAT2 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(2, 2); 
| } 
| F32MAT3 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(3, 3); 
| } 
| F32MAT4 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(4, 4); 
| } 
| F32MAT2X2 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(2, 2); 
| } 
| F32MAT2X3 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(2, 3); 
| } 
| F32MAT2X4 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(2, 4); 
| } 
| F32MAT3X2 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(3, 2); 
| } 
| F32MAT3X3 { 
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel()); 
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); 
| $$$.basicType = EbtFloat; 
| $$$.setMatrix(3, 3); 
| }
| F32MAT3X4 {
|  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtFloat;
|  $$$.setMatrix(3, 4);
| }
| F32MAT4X2 {
|  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtFloat;
|  $$$.setMatrix(4, 2);
| }
| F32MAT4X3 {
|  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtFloat;
|  $$$.setMatrix(4, 3);
| }
| F32MAT4X4 {
|  parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtFloat;
|  $$$.setMatrix(4, 4);
| }
| F64MAT2 {
|  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtDouble;
|  $$$.setMatrix(2, 2);
| }
| F64MAT3 {
|  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtDouble;
|  $$$.setMatrix(3, 3);
| }
| F64MAT4 {
|  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtDouble;
|  $$$.setMatrix(4, 4);
| }
| F64MAT2X2 {
|  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
|  $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|  $$$.basicType = EbtDouble;
|  $$$.setMatrix(2, 2);
| }
| F64MAT2X3 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(2, 3); |
| F64MAT2X4 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(2, 4); |
| F64MAT3X2 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(3, 2); |
| F64MAT3X3 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(3, 3); |
| F64MAT3X4 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(3, 4); |
| F64MAT4X2 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(4, 2); |
| F64MAT4X3 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(4, 3); |
| F64MAT4X4 | parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel()); $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$$.basicType = EbtDouble; $$$.setMatrix(4, 4); |
ATOMIC_UINT {
    parseContext.vulkanRemoved($1.loc, "atomic counter types");
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtAtomicUint;
}

SAMPLER1D {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd1D);
}

SAMPLER2D {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd2D);
}

SAMPLER3D {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd3D);
}

SAMPLERCUBE {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, EsdCube);
}

SAMPLER1DSHADOW {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd1D, false, true);
}

SAMPLER2DSHADOW {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd2D, false, true);
}

SAMPLERCUBESHADOW {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, EsdCube, false, true);
}

SAMPLER1DARRAY {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd1D, true);
}

SAMPLER2DARRAY {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
    $$$.sampler.set(EbtFloat, Esd1D, true);
}

SAMPLER2DARRAY {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtSampler;
$$\$\$.sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW |
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW |
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat, Esd2D, true, true);
}
| SAMPLERCUBEARRAY |
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat, EsdCube, true);
}
| SAMPLERCUBEARRAYSHADOW |
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat, EsdCube, true, true);
}
| F16SAMPLER1D |
  ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$\$$.basicType = EbtSampler;
    $$\$$.sampler.set(EbtFloat16, Esd1D);
  #endif
  
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat16, Esd1D);
  
  #endif
  
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat16, Esd2D);
  
  #endif
  
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat16, Esd3D);
  
  #endif
  
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $$\$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$$.basicType = EbtSampler;
  $$\$$.sampler.set(EbtFloat16, EsdCube);
  
  #endif
  
  #endif
```c
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, EsdCube);
#endif
}
| F16SAMPLER1DSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
| F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}
| F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd1D, true);
#endif
}
| F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd2D, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
```
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd1D, true, true);
#endif
}

| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, Esd2D, true, true);
#endif
}

| F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, EsdCube, true);
#endif
}

| F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtFloat16, EsdCube, true, true);
#endif
}

| ISAMPLER1D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtInt, Esd1D);
}

| ISAMPLER2D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtInt, Esd2D);
}

| ISAMPLER3D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.set(EbtInt, Esd3D);
}

| ISAMPLERCUBE {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$.sampler.set(EbtInt, EsdCube);
}

<table>
<thead>
<tr>
<th>ISAMPLER1DARRAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtInt, Esd1D, true);</td>
</tr>
<tr>
<td>ISAMPLER2DARRAY</td>
</tr>
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<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtInt, Esd2D, true);</td>
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<tr>
<td>ISAMPLERCUBEARRAY</td>
</tr>
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</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtInt, EsdCube, true);</td>
</tr>
<tr>
<td>USAMPLER1D</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd1D);</td>
</tr>
<tr>
<td>USAMPLER2D</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd2D);</td>
</tr>
<tr>
<td>USAMPLER3D</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd3D);</td>
</tr>
<tr>
<td>USAMPLERCUBE</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, EsdCube);</td>
</tr>
<tr>
<td>USAMPLER1DARRAY</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd1D, true);</td>
</tr>
<tr>
<td>USAMPLER2DARRAY</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtUint, Esd2D, true);</td>
</tr>
<tr>
<td>USAMPLERCUBEARRAY</td>
</tr>
</tbody>
</table>
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtUint, EsdCube, true);
}

| SAMPLER2DRECT {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdRect);
}

| SAMPLER2DRECTSHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdRect, false, true);
}

| F16SAMPLER2DRECT {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat16, EsdRect);
  #endif
}

| F16SAMPLER2DRECTSHADOW {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat16, EsdRect, false, true);
  #endif
}

| ISAMPLER2DRECT {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtInt, EsdRect);
}

| USAMPLER2DRECT {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtUint, EsdRect);
}

| SAMPLERBUFFER {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdBuffer);
}

| F16SAMPLERBUFFER {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
  #endif
}
```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtFloat16, EsdBuffer);
#endif
|
| ISAMPLERBUFFER {           
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtInt, EsdBuffer);
| }
| USAMPLERBUFFER {           
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtUint, EsdBuffer);
| }
| SAMPLER2DMS {              
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtFloat, Esd2D, false, false, true);
| }
| F16SAMPLER2DMS {           
|   #ifdef AMD_EXTENSIONS
|     parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtFloat16, Esd2D, false, false, true);
| #endif
| }
| ISAMPLER2DMS {             
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtInt, Esd2D, false, false, true);
| }
| USAMPLER2DMS {             
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtUint, Esd2D, false, false, true);
| }
| SAMPLER2DMSARRAY {         
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
|   $.sampler.set(EbtFloat, Esd2D, true, false, true);
| }
| F16SAMPLER2DMSARRAY {      
|   #ifdef AMD_EXTENSIONS
|     parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
|   $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
|   $.basicType = EbtSampler;
```
$$.sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
}
<table>
<thead>
<tr>
<th>ISAMPLER2DMSARRAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.set(EbtInt, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>USAMPLER2DMSARRAY</td>
</tr>
<tr>
<td>--------------------</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.set(EbtUint, Esd2D, true, false, true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>SAMPLER</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setPureSampler(false);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>SAMPLERSHADOW</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setPureSampler(true);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>TEXTURE1D</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setTexture(EbtFloat, Esd1D);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>F16TEXTURE1D</td>
</tr>
<tr>
<td>#ifdef AMD_EXTENSIONS</td>
</tr>
<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float texture&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setTexture(EbtFloat16, Esd1D);</td>
</tr>
<tr>
<td>#endif</td>
</tr>
<tr>
<td>TEXTURE2D</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setTexture(EbtFloat, Esd2D);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>F16TEXTURE2D</td>
</tr>
<tr>
<td>#ifdef AMD_EXTENSIONS</td>
</tr>
<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float texture&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$basicType = EbtSampler;</td>
</tr>
<tr>
<td>$$sampler.setTexture(EbtFloat16, Esd2D);</td>
</tr>
</tbody>
</table>
| #endif
```cpp
<table>
<thead>
<tr>
<th>TEXTURE3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$.basicType = EbtSampler;</td>
</tr>
</tbody>
</table>

```
```cpp
// Initialize variables
$s$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$s$.basicType = EbtSampler;
$s$.sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
}

// Textures
| TEXTURECUBEARRAY {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtFloat, EsdCube, true);
}

| F16TEXTURECUBEARRAY {
  #ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtFloat16, EsdCube, true);
  #endif
}

| ITEXTURE1D {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, Esd1D);
}

| ITEXTURE2D {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, Esd2D);
}

| ITEXTURE3D {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, Esd3D);
}

| ITEXTURECUBE {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, EsdCube);
}

| ITEXTURE1DARRAY {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, Esd1D, true);
}

| ITEXTURE2DARRAY {
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtSampler;
  $$.sampler.setTexture(EbtInt, Esd2D, true);
}
```
ITEXTURECUBEARRAY {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtInt, EsdCube, true);
}

UTEXTURE1D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, Esd1D);
}

UTEXTURE2D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, Esd2D);
}

UTEXTURE3D {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, Esd3D);
}

UTEXTURECUBE {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, EsdCube);
}

UTEXTURE1DARRAY {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, Esd1D, true);
}

UTEXTURE2DARRAY {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, Esd2D, true);
}

UTEXTURECUBEARRAY {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtUint, EsdCube, true);
}

TEXTURE2DRECT {
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtSampler;
  $$.$sampler.setTexture(EbtFloat, EsdRect);
}

F16TEXTURE2DRECT {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
  #endif
}
$$\$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$\$.basicType = EbtSampler;
$$\$.sampler.setTexture(EbtFloat16, EsdRect);
#ifdef

| ITEXURE2DRECT {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtInt, EsdRect);
}

| UTEXTURE2DRECT {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtUint, EsdRect);
}

| TEXTUREBUFFER {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtFloat, EsdBuffer);
}

| F16TEXTUREBUFFER {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtFloat16, EsdBuffer);
  #endif
}

| ITEXUREBUFFER {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtInt, EsdBuffer);
}

| UTEXTUREBUFFER {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtUint, EsdBuffer);
}

| TEXTURE2DMS {
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  $$\$.sampler.setTexture(EbtFloat, Esd2D, false, false, true);
}

| F16TEXTURE2DMS {
  #ifdef AMD_EXTENSIONS
  parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
  $$\$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$\$.basicType = EbtSampler;
  #endif
}
$$$.sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
}

| ITEXTURE2DMS {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtInt, Esd2D, false, false, true);
}

| UTEXTURE2DMS {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtUint, Esd2D, false, false, true);
}

| TEXTURE2DMSARRAY {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat, Esd2D, true, false, true);
}

| F16TEXTURE2DMSARRAY {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
}

| ITEXTURE2DMSARRAY {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtInt, Esd2D, true, false, true);
}

| UTEXTURE2DMSARRAY {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setTexture(EbtUint, Esd2D, true, false, true);
}

| IMAGE1D {
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd1D);
}

| F16IMAGE1D {
#ifdef IMAGE1D
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd1D);
#endif
}
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd1D);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd1D);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd2D);

// F16
#$ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd2D);
#$endif

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd2D);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd2D);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd3D);

// F16
#$ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd3D);
#$endif

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd3D);

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd3D);
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```c
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd3D);
}
| IMAGE3D |
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd3D);
}
| IMAGE2DRECT |
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, EsdRect);
}
| F16IMAGE2DRECT |
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, EsdRect);
#endif
}
| IIMAGE2DRECT |
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, EsdRect);
}
| IMAGECUBE |
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, EsdCube);
}
| F16IMAGECUBE |
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, EsdCube);
#endif
}
| IIMAGECUBE |
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
```

```cpp
$.sampler.setImage(EbtInt, EsdCube);
}

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<th>UIMAGECUBE</th>
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| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $.basicType = EbtSampler;
| $.sampler.setImage(EbtUint, EsdCube);
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| $.basicType = EbtSampler;
| $.sampler.setImage(EbtFloat16, EsdBuffer);
| #endif
|}

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<th>IMAGE1DARRAY</th>
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</table>
| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $.basicType = EbtSampler;
| $.sampler.setImage(EbtFloat, Esd1D, true);
<p>|</p>
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| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $.basicType = EbtSampler;
| $.sampler.setImage(EbtFloat16, Esd1D, true);
| #endif
|}

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| $.basicType = EbtSampler;
| $.sampler.setImage(EbtInt, Esd1D, true);
|}
```
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| }
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| }
| F16IMAGE2DARRAY |
| #ifdef AMD_EXTENSIONS |
| parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel()); |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtFloat16, Esd2D, true);}$$ |
| #endif |
| IIMAGE2DARRAY |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtInt, Esd2D, true);}$$ |
| }
| UIMAGE2DARRAY |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtUint, Esd2D, true);}$$ |
| }
| IMAGECUBEARRAY |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtFloat, EsdCube, true);}$$ |
| }
| F16IMAGECUBEARRAY |
| #ifdef AMD_EXTENSIONS |
| parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel()); |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtFloat16, EsdCube, true);}$$ |
| #endif |
| IIMAGECUBEARRAY |
| $$\text{$.init($1.loc, parseContext.symbolTable.atGlobalLevel());}$$ |
| $$\text{$.basicType = EbtSampler;}$$ |
| $$\text{$.sampler.setImage(EbtInt, EsdCube, true);}$$ |
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}

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| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
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| $.sampler.setImage(EbtFloat, Esd2D, false, false, true);
|

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| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $.basicType = EbtSampler;
| $.sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif |

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| $.basicType = EbtSampler;
| $.sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif |

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|

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| $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $.basicType = EbtSampler;
| $.sampler.setImage(EbtUint, Esd2D, true, false, true);
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.set(EbtFloat, Esd2D);
$$.$sampler.external = true;
}

| SUBPASSINPUT |
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtFloat);
}

| SUBPASSINPUTMS |
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtFloat, true);
}

| F16SUBPASSINPUT |
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float subpass input");
parseContext.symbolTable.atBuiltInLevel();
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtFloat16);
#endif
}

| F16SUBPASSINPUTMS |
ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float subpass input");
parseContext.symbolTable.atBuiltInLevel();
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtFloat16, true);
#endif
}

| ISUBPASSINPUT |
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtInt);
}

| ISUBPASSINPUTMS |
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

$$.basicType = EbtSampler;
$$.sampler.setSubpass(EbtInt, true);
}

| USUBPASSINPUT {
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtUint);
}

| USUBPASSINPUTMS {
parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.setSubpass(EbtUint, true);
}

| struct_specifier {
$$ = $1;
$$.$qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
parsedContext.structTypeCheck($$.loc, $$);
}

| TYPE_NAME {
//
// This is for user defined type names. The lexical phase looked up the
// type.
//
if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
  const TType& structure = variable->getType();
  $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.$basicType = EbtStruct;
  $$.$userDef = &structure;
} else {
  parsedContext.error($1.loc, "expected type name", $1.string->c_str(), ";");
}

precision_qualifier
  : HIGH_PRECISION {
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
parsedContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqHigh);
}

| MEDIUM_PRECISION {
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
parsedContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqMedium);
}

| LOW_PRECISION {
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
$$\text{init}(\text{loc}, \text{parseContext.symbolTable.atGlobalLevel})();$

\text{parseContext.handlePrecisionQualifier}(\text{loc}, $$\text{qualifier}, \text{EqpLow});$

\text{struct_specifier}
$
\text{STRUCT IDENTIFIER LEFT_BRACE} \{ \text{parseContext.nestedStructCheck}(\text{loc}); \} \text{struct_declaration_list RIGHT_BRACE} \$

TType* structure = new TType($5, *$2.string);
\text{parseContext.structArrayCheck}(\text{loc}, *structure);
TVariable* userTypeDef = new TVariable($2.string, *structure, true);
if (! \text{parseContext.symbolTable.insert}(userTypeDef))
    \text{parseContext.error}(\text{loc}, "redenfinition", $2.string->c_str(), "struct");
$$\text{init}(\text{loc});$
$$\text{basicType} = \text{EbtStruct};$
$$\text{userDef} = \text{structure};$
--\text{parseContext.structNestingLevel;}$

| \text{STRUCT LEFT_BRACE} \{ \text{parseContext.nestedStructCheck}(\text{loc}); \} \text{struct_declaration_list RIGHT_BRACE} |

TType* structure = new TType($4, TString(""));
$$\text{init}(\text{loc});$
$$\text{basicType} = \text{EbtStruct};$
$$\text{userDef} = \text{structure};$
--\text{parseContext.structNestingLevel;}$

| \text{struct_declaration_list} |

$$ = $$1;$

| \text{struct_declaration_list struct_declaration} |

$$ = $$1;$
for (unsigned int i = 0; i < $2->size(); ++i) {
    for (unsigned int j = 0; j < $$->size(); ++j) {
        if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
            \text{parseContext.error}(*$2)[i].loc, "duplicate member name:", ",", (*$2)[i].type->getFieldName().c_str();
    }
    $$->push_back(*$2)[i]);$
}

| \text{struct_declaration} |

: type_specifier struct_declarator_list SEMICOLON |

if ($1.arraySizes) {
    \text{parseContext.profileRequires}(\text{loc}, \text{ENoProfile}, 120, \text{E_GL_3DL_array_objects}, "arrayed type");
    \text{parseContext.profileRequires}(\text{loc}, \text{EEsProfile}, 300, 0, "arrayed type");
if (parseContext.profile == EEsProfile)
  parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}

$$ = $2;

parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

for (unsigned int i = 0; i < $$->size(); ++i) {
  parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
  (*$$)[i].type->mergeType($1);
}
}

| type_qualifier type_specifier struct_declarator_list SEMICOLON {
  parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
  if ($2.arraySizes) {
    parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
    if (parseContext.profile == EEsProfile)
      parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
  }

  $$ = $3;

  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
  parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
  parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

  for (unsigned int i = 0; i < $$->size(); ++i) {
    parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);
    (*$$)[i].type->mergeType($2);
  }
}

;

struct_declarator_list
  : struct_declarator {
    $$ = new TTypeList;
    $$->push_back($1);
  }
| struct_declarator_list COMMA struct_declarator {
    $$->push_back($3);
  }

;

struct_declarator


: IDENTIFIER {
    $$\text{.type} = \text{new TType(EbtVoid)};
    $$\text{.loc} = \$1.\text{loc};
    $$\text{.type->setFieldName(*$1.string)};
}

<table>
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<tr>
<th>IDENTIFIER array_specifier</th>
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<tr>
<td>\text{parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0)};</td>
</tr>
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</table>

$$\text{.type} = \text{new TType(EbtVoid)};
$$\text{.loc} = \$1.\text{loc};
$$\text{.type->setFieldName(*$1.string)};
$$\text{.type->newArraySizes(*$2.arraySizes)};

;

initializer
: assignment_expression {
    $$ = $1; 
}

<table>
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<tr>
<th>LEFT_BRACE initializer_list RIGHT_BRACE</th>
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</thead>
<tbody>
<tr>
<td>\text{const char* initFeature = &quot;{} \text{ style initializers}&quot;;}</td>
</tr>
<tr>
<td>\text{parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);}</td>
</tr>
<tr>
<td>\text{parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);}</td>
</tr>
<tr>
<td>$$ = $2;</td>
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<td>$$ = $2;</td>
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initializer_list
: initializer {
    $$ = \text{parseContext.intermediate.growAggregate(0, $1, $1->getLoc())};
}

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<td>$$ = \text{parseContext.intermediate.growAggregate($1, $3)};</td>
</tr>
</tbody>
</table>

declaration_statement
: declaration { $$ = $1; }

statement
: compound_statement { $$ = $1; }
| simple_statement   { $$ = $1; } |
| : declaration_statement { $$ = $1; } |
| : expression_statement { $$ = $1; } |
| : selection_statement { $$ = $1; } |
| : switch_statement   { $$ = $1; } |
| : case_label         { $$ = $1; } |
| : iteration_statement { $$ = $1; } |
| : jump_statement     { $$ = $1; } |
|
| compound_statement : LEFT_BRACE RIGHT_BRACE { $$ = 0; } |
| : LEFT_BRACE { |
|   parseContext.symbolTable.push(); |
|   ++parseContext.statementNestingLevel; |
| }
| statement_list { |
|   parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]); |
|   --parseContext.statementNestingLevel; |
| }
| : RIGHT_BRACE { |
|   if ($3 && $3->getAsAggregate()) |
|     $3->getAsAggregate()->setOperator(EOpSequence); |
|   $$ = $3; |
| }
|
| statement_no_new_scope : compound_statement_no_new_scope { $$ = $1; } |
| : simple_statement   { $$ = $1; } |
|
| statementScoped : { |
|   ++parseContext.controlFlowNestingLevel; |
| }
| compound_statement { |
|   --parseContext.controlFlowNestingLevel; |
|   $$ = $2; |
| }
| : { |
|   parseContext.symbolTable.push(); |
|   ++parseContext.statementNestingLevel; |
|
// Grammar Note: labeled statements for switch statements only; 'goto' is not supported.
+++parseContext.controlFlowNestingLevel;
}
simple_statement {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
    $$ = $2;
}

compound_statement_no_new_scope
  // Statement that doesn't create a new scope, for selection_statement, iteration_statement
  : LEFT_BRACE RIGHT_BRACE {
    $$ = 0;
  }
  | LEFT_BRACE statement_list RIGHT_BRACE {
    if ($2 && $2->getAsAggregate())
      $2->getAsAggregate()->setOperator(EOpSequence);
    $$ = $2;
  }
  |

statement_list
  : statement {
    $$ = parseContext.intermediate.makeAggregate($1);
    if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
      $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
      parseContext.wrapupSwitchSubsequence(0, $1);
      $$ = 0; // start a fresh subsequence for what's after this case
    }
  }
  | statement_list statement {
    if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
      $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
      parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate() : 0, $2);
      $$ = 0; // start a fresh subsequence for what's after this case
    } else
      $$ = parseContext.intermediate.growAggregate($1, $2);
  }
  |

expression_statement
  : SEMICOLON { $$ = 0; }
  | expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }
  |
}

selection_statement
  : selection_statement_nonattributed {
    $$ = $1;
selection_statement_nonattributed
  : IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
    parseContext.boolCheck($1.loc, $3);
    $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
  }
  :

selection_rest_statement
  : statement_scoped ELSE statement_scoped {
    $$ .node1 = $1;
    $$ .node2 = $3;
  }
  |
  : statement_scoped {
    $$ .node1 = $1;
    $$ .node2 = 0;
  }
  :

condition
  // In 1996 c++ draft, conditions can include single declarations
  : expression {
    $$ = $1;
    parseContext.boolCheck($1->getLoc(), $1);
  }
  |
  : fully_specified_type IDENTIFIER EQUAL initializer {
    parseContext.boolCheck($2.loc, $1);
    TType type($1);
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    if (initNode)
      $$ = initNode->getAsTyped();
    else
      $$ = 0;
  }
  :

switch_statement
  : switch_statement_nonattributed {
    $$ = $1;
  }
  |\n  : attribute switch_statement_nonattributed {
    parseContext.handleSwitchAttributes(*$1, $2);
\$$ = \$2;
}

switch_statement_nonattributed
 : SWITCH LEFT_PAREN expression RIGHT_PAREN {
// start new switch sequence on the switch stack
++parseContext.controlFlowNestingLevel;
++parseContext.statementNestingLevel;
parseContext.switchSequenceStack.push_back(new TIntermSequence);
parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
parseContext.symbolTable.push();
}
LEFT_BRACE switch_statement_list RIGHT_BRACE {
\$$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
delete parseContext.switchSequenceStack.back();
parseContext.switchSequenceStack.pop_back();
parseContext.switchLevel.pop_back();
parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
;

switch_statement_list
 : /* nothing */ {
   \$$ = 0;
}
| statement_list {
   \$$ = $1;
}
;

case_label
 : CASE expression COLON {
   \$$ = 0;
   if (parseContext.switchLevel.size() == 0)
     parseContext.error($1.loc, "cannot appear outside switch statement", "case", ");
   else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
     parseContext.error($1.loc, "cannot be nested inside control flow", "case", ");
   else {
     parseContext.constantValueCheck($2, "case");
     parseContext.integerCheck($2, "case");
     \$$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
   }
}
| DEFAULT COLON {
   \$$ = 0;
   if (parseContext.switchLevel.size() == 0)
     parseContext.error($1.loc, "cannot appear outside switch statement", "case", ");
   else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
     parseContext.error($1.loc, "cannot be nested inside control flow", "case", ");
   else {
     parseContext.constantValueCheck($2, "case");
     parseContext.integerCheck($2, "case");
     \$$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
   }
}
parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
    parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
else
    $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
}
;

iteration_statement
   : iteration_statement_nonattributed {
        $$ = $1;
   }
   | attribute iteration_statement_nonattributed {
        parseContext.handleLoopAttributes(*$1, $2);
        $$ = $2;
   }

iteration_statement_nonattributed
   : WHILE LEFT_PAREN {
       if (! parseContext.limits.whileLoops)
           parseContext.error($1.loc, "while loops not available", "limitation", "");
       parseContext.symbolTable.push();
       ++parseContext.loopNestingLevel;
       ++parseContext.statementNestingLevel;
       ++parseContext.controlFlowNestingLevel;
   }
   condition RIGHT_PAREN statement_no_new_scope {
       $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
       --parseContext.loopNestingLevel;
       --parseContext.statementNestingLevel;
       --parseContext.controlFlowNestingLevel;
   }
   | DO {
       ++parseContext.loopNestingLevel;
       ++parseContext.statementNestingLevel;
       ++parseContext.controlFlowNestingLevel;
   }
   statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
       if (! parseContext.limits.whileLoops)
           parseContext.error($1.loc, "do-while loops not available", "limitation", "");

       parseContext.boolCheck($8.loc, $6);

       $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
       --parseContext.loopNestingLevel;
       --parseContext.statementNestingLevel;
       --parseContext.controlFlowNestingLevel;
   }
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
  parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
  $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
  TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
    reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
  if (! parseContext.limits.nonInductiveForLoops)
    parseContext.inductiveLoopCheck($1.loc, $4, forLoop);
  $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
  $$->getAsAggregate()->setOperator(EOpSequence);
  --parseContext.loopNestingLevel;
  --parseContext.statementNestingLevel;
  --parseContext.controlFlowNestingLevel;
}

for_init_statement : expression_statement {
  $$ = $1;
}
| declaration_statement {
  $$ = $1;
}
;

conditionopt : condition {
  $$ = $1;
}
| /* May be null */ {
  $$ = 0;
}
;

for_rest_statement : conditionopt SEMICOLON {
  $$->node1 = $1;
  $$->node2 = 0;
}
| conditionopt SEMICOLON expression {
  $$->node1 = $1;
  $$->node2 = $3;
jump_statement:
  : CONTINUE SEMICOLON {
      if (parseContext.loopNestingLevel <= 0)
        parseContext.error($1.loc, "continue statement only allowed in loops", ",", ",");
      $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
  }
  | BREAK SEMICOLON {
      if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
        parseContext.error($1.loc, "break statement only allowed in switch and loops", ",", ",");
      $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
  }
  | RETURN SEMICOLON {
      $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
      if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
        parseContext.error($1.loc, "non-void function must return a value", ",", ",");
      if (parseContext.inMain)
        parseContext.postEntryPointReturn = true;
  }
  | RETURN expression SEMICOLON {
      $$ = parseContext.handleReturnValue($1.loc, $2);
  }
  | DISCARD SEMICOLON {
      parseContext.requireStage($1.loc, EShLangFragment, "discard");
      $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
  }
}

// Grammar Note: No 'goto'. Gotos are not supported.

translation_unit:
  : external_declaration {
      $$ = $1;
      parseContext.intermediate.setTreeRoot($$);
  }
  | translation_unit external_declaration {
      if ($2 != nullptr) {
        $$ = parseContext.intermediate.growAggregate($1, $2);
        parseContext.intermediate.setTreeRoot($$);
      }
  }
  ;

external_declaration:
  : function_definition {
      $$ = $1;
  }

---

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declarations { 
  $$ = $1;
}

SEMICOLON { 
  parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
  parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
  $$ = nullptr;
}

function_definition 
  : function_prototype {
    $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
    $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
  }

compound_statement_no_new_scope 
  : May be best done as post process phase on intermediate code
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
      parseContext.error($1.loc, "function does not return a value:", ",", $1.function->getName().c_str());
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
    parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
    $$->getAsAggregate()->setName($1.function->getMangledName().c_str());
    // store the pragma information for debug and optimize and other vendor specific
    // information. This information can be queried from the parse tree
    $$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
    $$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
    $$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
  }

attribute 
  : LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET { 
    $$ = $3;
    parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
  }

attribute_list 
  : single_attribute { 
    $$ = $1;
  }

| attribute_list COMMA single_attribute { 
    $$ = parseContext.mergeAttributes($1, $3);
  }

single_attribute
: IDENTIFIER {
    $$ = parseContext.makeAttributes(*$1.string);
}
| IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
    $$ = parseContext.makeAttributes(*$1.string, $3);
}

%%

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* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-target/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpTokens.cpp
* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-target/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpAtom.cpp
* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-target/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpContext.h
```

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* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GLSL.ext.KHR.h

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* /opt/cola/permits/1226182869_1636511131.37/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/gtests/HexFloat.cpp

---

1.2842 libnpmpack 4.0.1

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1.2843 jinja2 2.10-1.ph3

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane
type Licence struct {
    ArrayUUID    string               `json:"arrayUUID,omitempty"
    ClusterID    string               `json:"clusterID,omitempty"
    CustomerID   string               `json:"customerID"
    CustomerName string               `json:"customerName"
    Storage      int                  `json:"storage"
    ValidUntil   time.Time            `json:"validUntil"
    LicenceType  string               `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool                 `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
Key string \"json:"key"\n"
}

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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Protocol Buffers for Go with Gadgets

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package storageos

import (
    "encoding/json"
    
    "github.com/storageos/go-api/types"
)

const ( // licenceAPIPrefix is a partial path to the HTTP endpoint. licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
    if err != nil {
        return err
    }
    return resp.Body.Close()
}
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1.2847 tke 1.7.1
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BSON library for Go

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1.2852 lowercase-keys 1.0.1

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1.2853 kubernetes-client 0.18.4

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1.2856 @gar/promisify 1.1.3

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1.2860 libencode-locale-perl 1.05-1

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Encode::Locale
=============

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, "encoding(console_in)");
    binmode(STDOUT, "encoding(console_out)");
    binmode(STDERR, "encoding(console_out)");
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename)) || die "Can't open '$uni_filename': $!";
binmode($fh, "encoding(locale)");
 ...

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<< Encode::encode(locale => $bytes) >> and converted back again with C<< Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and
variables are provided:

=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by \"\x{FFFD}\", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call. Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/"Handling Malformed Data"> for details on other options for CHECK.

=item env( $uni_key )

=item env( $uni_key => $uni_value )

Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can't be decoded replaced by \"\x{FFFD}\", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);

=item reinit( )

=item reinit( $encoding )

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force $ENCODING_... variables to set to the given value.
### NOTES

This table summarizes the mapping of the encodings set up by the `Encode::Locale` module:

<table>
<thead>
<tr>
<th>Encode</th>
<th>Alias</th>
<th>Windows</th>
<th>Mac OS X</th>
<th>POSIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>locale</td>
<td>ANSI</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
<td></td>
</tr>
<tr>
<td>locale_fs</td>
<td>ANSI</td>
<td>UTF-8</td>
<td>nl_langinfo</td>
<td></td>
</tr>
<tr>
<td>console_in</td>
<td>OEM</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
<td></td>
</tr>
<tr>
<td>console_out</td>
<td>OEM</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
<td></td>
</tr>
</tbody>
</table>

#### Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as `$ENCODING_LOCALE` and the "locale" Encoding alias.
Windows systems also operate with another byte based character set. It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<I18N::Langinfo>, L<Encode>, L<Term::Encoding>

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=cut

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---
abstract: 'Determine the locale encoding'
1.2861 gcc-defaults 7.4.0 1ubuntu2.3

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That's all there is to it!
/* Definitions for BSD assembler syntax for Intel 386
 (actually AT&T syntax for insns and operands,
 adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix '.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
    fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".comm ", (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

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/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
    ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
    ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=(0) fprintf ((FILE), 										"t.align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@c Set title GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
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Version 3.1, 31 March 2009

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3, or (at your option) any later version.
#
# This script adjusts the copyright notices at the top of source files so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
self.skip_extensions = set()
self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set ( [
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'yldwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    ...
if filename.startswith('ChangeLog'):
    # Ignore references to copyright in changelog entries.
    return re.compile(r'\t')

return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
def __init__(self, errors):
    self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9][?\[-0-9.,\s]\s+and\s+]0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w-]*'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (r'
        # 1: 'Copyright (C)', etc.
        '([Cc]opyright'
        '([Cc]opyright+s+\([Cc]\)]'
        '\([Cc]opyright+s+%s'
        '\([Cc]opyright+s+&copy;'
        '\([Cc]opyright+s+copyright\[]
        '[copyright = u"'
        '[@set\s+copyright[\w-]+]')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*(?:' + ranges + ',?'
        '\@value\[\^\[ ]\]\s*)'

        # 3: 'by ', if used
        '(by\s+)?'

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '\(' + name + '\('?:\w?\)?' + name + ')+')

        # A regexp for notices that might have slipped by. Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
        # HTML header markers, so check for 'copyright' and two digits.
        self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
            re.IGNORECASE)
    self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c |dnl ')
# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', ' '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                  for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
while not self.is_complete (match):
    try:
        next_line = file.next()
    except StopIteration:
        break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders
else:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except Self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + (' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + 'n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
# Leave filtered-out lines alone.
if not (line_filter and line_filter.match (line)):
    match = self.copyright_re.search (line)
    if match:
        res = self.update_copyright (dir, filename, filter,
                        file, line, match)
        (this_changed, line, next_line) = res
        changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
    lines.append (line)
    line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
            os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them', self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice', self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
    '
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    ')
    format = '%-25s
    '
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + "\n"
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)

if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        def skip_file (self, dir, filename):
            if filename.endswith ('.m4'):
                pathname = os.path.join (dir, filename)
                with open (pathname) as file:
                    # Skip files imported from gettext.
                    if file.readline().find ('gettext-') >= 0:
                        return True
                return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
            )
self.skip_dirs |= set([  
    # Better not create a merge nightmare for the GNAT folks.  
    'ada',

    # Handled separately.  
    'testsuite',  
])

self.skip_extensions |= set([  
    # Maintained by the translation project.  
    '.po',

    # Automatically-generated.  
    '.pot',  
])

self.fossilised_files |= set([  
    # Old news won't be updated.  
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([  
            # Don't change the tests, which could be woend by anyone.  
            '.c',  
            '.C',  
            '.cc',  
            '.h',  
            '.hs',  
            '.f',  
            '.f90',  
            '.go',  
            '.inc',  
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information  
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True

        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True

        return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
if filename == 'boost_concept_check.h':
    return re.compile('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Regents of the University of California.')
        self.add_external_author('Unicode, Inc.')
        self.add_external_author('University of Toronto.')

    class GCCCmdLine (CmdLine):
def __init__(self):
    CommandLine.__init__(self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())  # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())  # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnatools')
    self.add_dir ('gotools')
    self.add_dir ('include')
    self.add_dir ('libada')
    self.add_dir ('libatomic')
    self.add_dir ('libbacktrace')
    self.add_dir ('libcc1')
    # libcilkrts is imported from upstream.
    self.add_dir ('libcpp', LibCppFilter())
    self.add_dir ('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir ('libgcc', LibGCCFilter())
    self.add_dir ('libgfortran')
    # libgo is imported from upstream.
    self.add_dir ('libgomp')
    self.add_dir ('libhsail-rt')
    self.add_dir ('libiberty')
    self.add_dir ('libitm')
    self.add_dir ('libobjc')
    # liboffloadmic is imported from upstream.
    self.add_dir ('libquadmath')
    # libsanitizer is imported from upstream.
    self.add_dir ('libssp')
    self.add_dir ('libstdc++-v3', LibStdCxxFilter())
    self.add_dir ('libvtv')
    self.add_dir ('lto-plugin')
    # maintainer-scripts maintainer-scripts
    # zlib is imported from upstream.

    self.default_dirs = [
        'gcc',
        'include',
        'libada',
        'libatomic',
        'libbacktrace',
        'libcc1',
        'libcpp',
        ....
    ]
GCCCmdLine().main()
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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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**********************************************************************/

Found in path(s):
* /opt/cola/permits/1112082522_1607034672.43/0/stringio-0-0-1-1-gem/data-tar-gz/stringio.c

1.2866 setuptools-rust 1.1.2
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Relicensed code
***************

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cuff2bb5b6.

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 pistream 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.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!-}-
-
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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<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">
  <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
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1.2869 gophercloud 0.3.0
1.2869.1 Available under license :
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next  string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, nil
}
// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](https://github.com/gophercloud/gophercloud/pull/584) as it contains a lot of the repeated boiler plate code seen in each resource.
However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

```shell
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
````

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   
   a. Unit Tests
   
   b. Code Formatting checks
   
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
`  

// GetResult provides a Get result.
const GetResult = `
`
// CreateRequest provides the input to a Create request.
const CreateRequest = "
{
}
"

// UpdateRequest provides the input to a Update request.
const UpdateRequest = "
{
}
"

// UpdateResult provides an update result.
const UpdateResult = "
{
}
"

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: [int{201}],
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (  
    "testing"  
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
    "github.com/gophercloud/gophercloud/pagination"  
    th "github.com/gophercloud/gophercloud/testhelper"  
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }
}
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getUrl(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new
feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your
patience as well as the time you have taken for working on this. You've made
Gophercloud a better project with your work.
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing
==================================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don’t have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you’ve confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue
==================================

Every patch / Pull Request requires a corresponding issue. If you’re fixing a bug for an existing issue, then there’s no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
-----------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
### Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

#### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID       string `json:"id"
    Name     string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status   string `json:"status"
    Subnets  []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared   bool `json:"shared"
}
```

to look like

```go
type Network struct {
    ID           string `json:"id"
    Name         string `json:"name"
    AdminStateUp bool     `json:"admin_state_up"
    Status       string   `json:"status"
    Subnets      []string `json:"subnets"
    TenantID     string   `json:"tenant_id"
    Shared       bool     `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[ ]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

--------------
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=----------------------------=

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.2870 jsprim 1.4.1

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Eclipse

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

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

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

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Oracle

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

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

------

Oracle OpenJDK

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

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

------

MortBay

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

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Corresponding Source in the same way through the same place at no
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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1.2892 github.com/grafana/grafana-plugin-sdk-go 0.63.0

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import "testing"

func TestIntegrationLicense(t *testing.T) {
  license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url"

assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

1.2895 apparmor 2.12 4ubuntu5.1

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1.2917 ptyprocess 0.5.2-1

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1.2918 jwt-go 3.2.2+incompatible

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1.2920 x-text 0.3.3
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.2923 masterminds-goutils 1.1.1

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package github

import (  
    "fmt"  
    "net/http"  
    "reflect"  
    "testing"  
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)  
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key: String("mit"),
        Name: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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package github

import "fmt"
// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
  client *Client
}

// License represents an open source license.
type License struct {
  Key  *string `json:"key","omitempty"`
  Name *string `json:"name","omitempty"`
  URL  *string `json:"url","omitempty"`
  HTMLURL        *string   `json:"html_url","omitempty"`
  Featured       *bool     `json:"featured","omitempty"`
  Description    *string   `json:"description","omitempty"`
  Category       *string   `json:"category","omitempty"`
  Implementation *string   `json:"implementation","omitempty"`
  Required       *[]string `json:"required","omitempty"`
  Permitted      *[]string `json:"permitted","omitempty"`
  Forbidden      *[]string `json:"forbidden","omitempty"`
  Body           *string   `json:"body","omitempty"`
}

func (l License) String() string {
  return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
  req, err := s.client.NewRequest("GET", "licenses", nil)
  if err != nil {
    return nil, nil, err
  }

  // TODO: remove custom Accept header when this API fully launches
  req.Header.Set("Accept", mediaTypeLicensesPreview)

  licenses := new([]License)
  resp, err := s.client.Do(req, licenses)
  if err != nil {
    return nil, resp, err
  }

  return licenses, resp, nil
}
return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
  u := fmt.Sprintf("licenses/%s", licenseName)

  req, err := s.client.NewRequest("GET", u, nil)
  if err != nil {
    return nil, nil, err
  }

  // TODO: remove custom Accept header when this API fully launches
  req.Header.Set("Accept", mediaTypeLicensesPreview)

  license := new(License)
  resp, err := s.client.Do(req, license)
  if err != nil {
    return nil, nil, err
  }

  return license, resp, err
}

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**1.2937 rc 1.2.8**

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1.2949 tomb v1.0.0-20141024135613-dd632973f1e7

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/CallServerInterceptor.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteSelector.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

1.2951 protobuf 1.27.1

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* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java

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* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
1.2952 ghodss-yaml 1.0.0

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1.2953 go-jose 2.4.1
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1.2954 kubernetes-kubectl 0.18.0

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `[[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]}
})

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

   mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `{"key":"mit","name":"MIT"}`)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{ Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.


type LicensesService struct {
    client *Client
}

// License represents an open source license.

type License struct {
    Key *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() (licenses []License, resp *Response, err error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    licenses = new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (license *License, resp *Response, err error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license = new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}
license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, err

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1.2955 ruby-power-assert 0.3.0-1

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

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 pistream
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.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<-!.-
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1.2962 x-oauth2 0.0.0-20191202225959-858c2ad4c8b6

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.2968 jetty-io 9.4.16.v20190411

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

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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Apache

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

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MortBay

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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

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

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

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

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* java.sun.security.ssl

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

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The following artifacts are ASL2 licensed.

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

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Clockwork - a scheduler process to replace cron

===============================================
Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example

-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork
every('10s') { puts 'every 10 seconds' }
every( '3m') { puts 'every 3 minutes' }
every( '1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

```bash
$ clockwork schedule.rb
```

Or run directly with Ruby:

```bash
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

--------------
Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queuing system, such as
[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork
include Clockwork

require 'stalker
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }
```

Using a queuing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

```ruby
require 'config/boot
require 'config/environment

require 'clockwork
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

In production
---------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)
You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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[http://github.com/adamwiggins/clockwork](http://github.com/adamwiggins/clockwork)

Found in path(s):

* /opt/cola/permits/1212379238_1633816578.47/0/adamwiggins-clockwork-v0-1-0-0-g596af5c-1-targz/adamwiggins-clockwork-596af5c/README.md

### 1.2981 openshift-model 4.10.2

#### 1.2981.1 Available under license :

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========

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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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1.2989 python-pip 9.0.1-2.3~ubuntu1.18.04.5
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1.2993 jackson-annotations 2.9.10

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1.2994 pyparsing 3.0.6

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1.2995 evanphx-json-patch 5.6.0

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1.2996 wrapt 1.9.0

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**1.2997 promise-all-reject-late 1.0.1**

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**1.2998 function-bind 1.1.1**

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**1.2999 astroid 1.6.0**
1.2999.1 Available under license:

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1.3001 libhttp-negotiate-perl 6.00-2

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=head1 NAME

HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS

use HTTP::Negotiate qw(choose);
# ID QS Content-Type Encoding Char-Set Lang Size
$variants =
[ ['var1', 1.000, 'text/html', undef, 'en', 3000],
  ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
  ['var3', 0.3, 'image/gif', undef, undef, 43555],
];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

=head1 DESCRIPTION

This module provides a complete implementation of the HTTP content
negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps>
chapter 12. Content negotiation allows for the selection of a
preferred content representation based upon attributes of the
negotiable variants and the value of the various Accept* header fields
in the request.

The variants are ordered by preference by calling the function
choose().

The first parameter is reference to an array of the variants to
choose among.
Each element in this array is an array with the values [$id, $qs,
$content_type, $content_encoding, $charset, $content_language,
$content_length] whose meanings are described
below. The $content_encoding and $content_language can be either a
single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request
object which is searched for "Accept*" headers. If this
parameter is missing, then the accept specification is initialized
from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET,
HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant
identifier, calculated quality, size] tuples. The values are sorted by
quality, highest quality first. If the calculated quality is the same
for two variants, then they are sorted by size (smallest first). I<E.g.>:

( ['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);

Note that also zero quality variants are included in the return list
even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the
highest score or C<undef> if none have non-zero quality.
If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=item identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

=item qs

This is a number between 0.000 and 1.000 that describes the "source quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

=item content-type

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

  text/html
  text/html;version=2.0
  text/plain
  image/gif
  image/jpg

=item content-encoding

This is one or more content encodings that has been applied to the...
variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

- gzip
- compress

=item content-charset

This is the character set used when the variant contains text. The charset value should generally be C<undef> or one of these:

- us-ascii
- iso-8859-1 ...
- iso-8859-9
- iso-2022-jp
- iso-2022-jp-2
- iso-2022-kr
- unicode-1-1
- unicode-1-1-utf-7
- unicode-1-1-utf-8

=item content-language

This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

- no Norwegian
- en International English
- en-US US English
- en-cockney

=item content-length

This is the number of bytes used to represent the content.

=back

=head1 ACCEPT HEADERS

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):
This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=\text{infinity}. If no Accept header is present, then the client accepts all media types with q=1.

For example:

```
Accept: audio/*;q=0.2;mbx=200000, audio/basic
```

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80\% mark-down in quality and its size is less than 200000 bytes"

**Accept-Charset**

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

```
Accept-Charset: iso-8859-1, unicode-1-1
```

**Accept-Encoding**

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

```
Accept-Encoding: compress, gzip
```

**Accept-Language**

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be
given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

NAME
HTTP::Negotiate - choose a variant to serve

SYNOPSIS
use HTTP::Negotiate qw(choose);

# ID QS Content-Type Encoding Char-Set Lang Size
$variants =
[['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
['var3', 0.3, 'image/gif', undef, undef, undef, 43555],
];

@preferred = choose($variants, $request_headers);
$the_one = choose($variants);

DESCRIPTION
This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps
chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [$id, $qs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). *E.g.*:

```
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or `undef` if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use `undef` instead.

- **identifier**
  
  This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

- **qs**
  
  This is a number between 0.000 and 1.000 that describes the "source quality". This is what draft-ietf-http-v11-spec-00.ps says about this value:
Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

content-type
This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters. Examples are:

- text/html
- text/html;version=2.0
- text/plain
- image/gif
- image/jpg

content-encoding
This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

- gzip
- compress

content-charset
This is the character set used when the variant contains text. The charset value should generally be `undef' or one of these:

- us-ascii
- iso-8859-1 ... iso-8859-9
- iso-2022-jp
- iso-2022-jp-2
- iso-2022-kr
- unicode-1-1
- unicode-1-1-utf-7
- unicode-1-1-utf-8

content-language
This describes one or more languages that are used in the variant. Language is described like this in draft-ietf-http-v11-spec-00.ps: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.
The language tags are defined by RFC 3066. Examples are:

- no Norwegian
- en International English
- en-US US English
- en-cockney

content-length
This is the number of bytes used to represent the content.

ACCEPT HEADERS
The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from draft-ietf-http-v11-spec-00.ps):

Accept
This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset
Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

Accept-Encoding
Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty
Accept-Encoding means that no content encoding is acceptable.
Example:

Accept-Encoding: compress, gzip

Accept-Language
This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user’s comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

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1.3018 pflag v1.0.5

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.3038 jpillora-backoff 1.0.0

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"
the name"","url":"
the url"]`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
1.3042 python-requests 2.18.4 2ubuntu0.1

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**1.3049 python-jsonpatch 1.19+really1.16-1fakesync1**

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1.3050 prometheus 1.8.2-0.20210124145330-b5dfe2414b9e

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:ff2bb5b6.

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 pistream 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.

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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$properties->license = License::schema();

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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1.3076 nss 3.35-2ubuntu2.13

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   ===
   DeluxePage.cobra
   
   This is a continuation of the framework found in WebPages.cobra.

   cobra -r=System.Web WebPages.cobra DeluxePage.cobra > deluxe.html
   
   ===
   
   class DeluxePage
   inherits Page
   ===
   DeluxePage adds these capabilities:

   * A more sophisticated page structure with header, left sidebar, right
     sidebar, content well and footer. This more closely reflects the structure
     of typical web pages. All parts are optional.

   * Word-wrapped output with a left and right margin and indent/dedent
     capability.
   ===
   
   test
dp = DeluxePage()
sw = StringWriter()
dp.writeHeadHtml(sw)

var _writer as DeluxeWriter?

get rightHtmlSourceMargin as int
===
The HTML source code that is output is actually wrapped at a right hand margin. This often makes it easier to read the source.
===
return 100

def indent
    _writer.indent

def indent(s as String)
===
While the name .writeLineAndIndent is explicit, it's also annoyingly long. This shorter named method does the same thing.
===
    .writeLineAndIndent(s)

def dedent
    _writer.dedent

def dedent(s as String)
===
While the name .dedentAndWriteLine is explicit, it's also annoyingly long. This shorter named method does the same thing.
===
    .dedentAndWriteLine(s)

def writeLineAndIndent(s as String)
    .writeLine(s)
    .indent

def dedentAndWriteLine(s as String)
    .dedent
    .writeLine(s)

def begin(name as String, tag as Object)
    .writeLine('
' + HtmlUtils.toHtml(tag))
    .indent

def end(name as String, tag as Object)
    .dedent
    didWrite = false
    if tag inherits String
        if not tag.startsWith('<')
            .writeLine('</[tag]>')
            didWrite = true
        if not didWrite
            .writeLine('[HtmlUtils.toHtml(tag)]')
        .dedent
        .writeLine('<!-- << end [name] -->
    )

def writeHtml(tw as TextWriter)
    _writer = writer = DeluxeWriter(tw, .rightHtmlSourceMargin)
    try
        base.writeHtml(writer)  # TODO: axe writer local and use "_writer to !" when it's available
    finally
        _writer = nil

    var _wholePageTableTag = Tag('table', 'class=wholePage border=0 cellpadding=0 cellspacing=0')
    var _leftBarTdTag = Tag('td', 'class', 'leftBar', 'valign', 'top', 'width', 0)

    get numCols as int
    return 1 + if(.hasLeftBar,1,0) + if(.hasRightBar,1,0)

    def writeBodyParts is override
        numCols = .numCols
        .indent
        .begin('whole page', _wholePageTableTag)
        if .hasPageHeader
            .writePageHeader
            .begin('page row', '<tr class=pageRow>')
            if .hasLeftBar
                .begin('left bar', _leftBarTdTag)
                .writeLine('<div class=leftBar>')
                .writeLeftBar
                .writeLine('</div>')
                .end('left bar', 'td')
            .begin('page content', '<td class=pageContent valign=top width=0> <div class=pageContent>')
            .writeContent
            .end('page content', '</div> </td>')
            if .hasRightBar
                .begin('right bar', '<td class=rightBar valign=top width=0>')
                .writeRightBar
                .end('right bar', 'td')
            if .hasPageFooter
                .begin('page footer', '<tr class=pageFooter>')
                .indent('<td class=pageFooter colSpan=[numCols]>

```python
def writePageHeader
    .begin('page header', '<tr class=pageHeader>')</n
    .indent('<td class=pageHeader colSpan=[.numCols]>\n')
    .innerWritePageHeader
    .dedent('\n</td>
')
    .end('page header', 'tr')

def innerWritePageHeader
    .writeLine(.htTitle)

def writeLeftBar
    pass

def writeRightBar
    pass

def writePageFooter
    .writeLine('Copyright © [DateTime.now.year]. All Rights Reserved.')

def writePageFooter
    .writeLine('Copyright © [DateTime.now.year]. All Rights Reserved.')

def writePageFooter
    .writeLine('Copyright © [DateTime.now.year]. All Rights Reserved.')

get hasPageHeader as bool
    return true

def writeLeftBar
    .writeLine('<a href=nav1.html>Nav 1</a>
```
def writeContent is override
   .writeLine('Added unit testing as a language level feature. You can now write test sections for methods, properties
   and classes. Because these unit tests can be specified next to what they actually test, they are more likely to be kept
   up to date. Also, because they are a natural part of the source code, they benefit from development environment
   features such as syntax highlighting and autocompletion. Finally, more programmers may be encouraged to write
   unit tests when it is this easy.')

class DeluxeWriter
   inherits TextWriter
   
   Provides:

   * indented writing (useful for structured HTML pages)
   
   * right margin (useful for yielding easy-to-read HTML)

   Used internally by DeluxePage although you are free to use DeluxeWriter if
   you have a need for it.

   test
   iw = DeluxeWriter(StringWriter())
   assert iw.toString=='', iw.toString
   nl = iw.newLine
   tab = '    '
   iw.writeLine('one')
   assert iw.toString=='one[nl]', iw.toString
   iw.indent
   iw.writeLine('two')
   assert iw.toString=='one[nl][tab]two[nl]'
   iw.dedent
   iw.writeLine('three')
   assert iw.toString=='one[nl][tab]two[nl]three[nl]'

   var _innerWriter as TextWriter
   var _lastChar = ''  # use a string because _innerWriter.NewLine is a string
   var _indentString = '    '
   var _indentLevel = 0
   var _totalIndentString = ''
   var _isWritingIndent = false
   var _column = 1
   var _rightMargin = 80

   def init(tw as TextWriter)
      _innerWriter = tw
def init(tw as TextWriter, rightMargin as int)
    .init(tw)
    # TODO: require
    assert rightMargin>10
    _rightMargin = rightMargin

    def indent
        _indentLevel += 1
        _setTotalIndentString()

    def dedent
        _indentLevel -= 1
        _setTotalIndentString()

    pro indentString from var
        
        Returns the string used for one level of indentation.
        Default value is "\t".
        
    get newLine2 as String
        return \n        # because NewLine is "\r\n" but we don't require the \r

    # *** Being a TextWriter ***

def write(value as char) is override
    if _isWritingIndent
        _innerWriter.write(value)
        _column += 1
        return
    if _lastChar==_innerWriter.newLine or _lastChar==.newLine2
        _column = 1
        _isWritingIndent = true
    try
        .write(_totalIndentString)
        _column += _totalIndentString.length
    finally
        _isWritingIndent = false
        _innerWriter.write(value)
        _column += 1
        _lastChar = value.toString
    if _column>_rightMargin and _lastChar==' '  
        # TODO: need a better word wrapping algorithm that doesn't allow words to poke out of the right hand margin
        # but this is good enough for now
        .write(_innerWriter.newLine)

    def write(value as String) is override
if _isWritingIndent
    _innerWriter.write(value)
else
    base.write(value)

get encoding as Encoding? is override
return _innerWriter.encoding

def toString as String is override
return _innerWriter.toString

# *** Private Util ***

def _setTotalIndentString is protected
    sb = StringBuilder()
    for i = 0 .. _indentLevel
        sb.append(_indentString)
    _totalIndentString = sb.toString

#class Program
#
#def main is shared
#p = MyPage()
#p.writeHtml(Console.out)

Found in path(s):
* /opt/cola/permits/1275718997_1646325227.61/0/cobra-0-7-0-tar-gz/Cobra-0.7.0/Reusables/DeluxePage.cobra
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Version.......... 0.7
Release Date... 2007-01-26
Platform........ .NET 2.0 / Mono 1.2.6
Status......... beta
Home Page...... http://Cobra-Language.com/

The term "Cobra" is used herein to refer to "The Cobra Programming Language"

Cobra is a high-performance, rapid-development programming language.
It combines features from Python, C#, Objective-C, Eiffel and other languages
in order to boost developer productivity.
See also: http://Cobra-Language.com/docs/why/

Requirements

Windows, Mac or Linux.

Microsoft .NET 2.0 - Cobra can be used with or without the SDK installed.
-or-
Novell Mono 1.2.6

.NET:  http://www.microsoft.com/downloads/
Mono:   http://www.mono-project.com/

Installation

You can put Cobra wherever you like in your file system, however, if you are on
a UNIX/POSIX-type system such as Linux, BSD or Mac, then you'll probably want
to run the 'install' script. There is a comment block inside it with further
instructions.

Running Cobra

On Windows:

To run:
   > path\to\cobra MyProgram.cobra
The source code extension is not required:
   > path\to\cobra MyProgram
To run again:
   > MyProgram.exe
To just compile:
   > path\to\cobra -c MyProgram
If cobra is in your path:
   > cobra MyProgram
To learn about all the options:
   > cobra -help

On Unix-like systems:

To run:
   $ cobra MyProgram.cobra
The source code extension is not required:
   $ cobra MyProgram
To run again:
> mono MyProgram.exe
To just compile:
  > cobra -c MyProgram
To learn about all the options:
  > cobra -help

Learning

See http://Cobra-Language.com/docs/

Those docs are not currently included in this package, so you have to
read them online.

And check out the HowTo and Samples subdirectories. You'll find these online,
and also in this package.

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Note: The source code is not actually provided yet as it needs to be cleaned up
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1.3080 x-sys 0.0.0-20191220142924-d4481acd189f

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AC_DEFUN([gl_CANONICALIZE_LGPL],
[
dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  AC_DEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
gl_PREREQ_CANONICALIZE_LGPL
fi]
)

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
1.3082 libjpeg8-empty 8c-2ubuntu8

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1.3087 urfave-cli 1.22.1
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1.3089 qemu 2.11+dfsg-1ubuntu7.39

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },

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{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,"%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR-sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR-sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(\%x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsresgid, "setsresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "Unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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#* +STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Gocheck - A rich testing framework for Go

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```
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```

```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

--------------------------------------------------------------------------------
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Files: aclocal.m4 package
```
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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1.3104 snowball 0+svn585-1build1

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1.3108 libhtml-tagset-perl 3.20-3
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=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTMLInputElement>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

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=cut

Found in path(s):
* /opt/cola/permits/1175538967_1624412573.72/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm
No license file was found, but licenses were detected in source scan.

license: ~

Found in path(s):
* /opt/cola/permits/1175538967_1624412573.72/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/META.yml
No license file was found, but licenses were detected in source scan.

README for HTML::Tagset

   HTML::Tagset

   This module contains data tables useful in dealing with HTML.

   It provides no functions or methods.

PREREQUISITES

   This suite requires Perl 5.

   HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

   You install HTML::Tagset, as you would install any perl module library, by running these commands:

        perl Makefile.PL
        make
        make test
        make install

   If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

        perl Makefile.PL LIB=~/perl
DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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Found in path(s):
* /opt/cola/permits/1175538967_1624412573.72/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/README

1.3109 bluebird 3.5.3

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1.3110 github.com/go-macaron/gzip 0.0.0-
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1.3113 pygobject 3.26.1 2ubuntu1

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1.3119 github.com/cyphar/filepath-securejoin
0.2.3

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Go support for Protocol Buffers - Google's data interchange format

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* /opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-
ASN.1 library for Python
========================

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (`ASN.1`
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) 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 if 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 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/>` 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::
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   /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.
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()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321
```
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
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:
>>> 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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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//
package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name, omitempty"`
    URL  string `json:"url, omitempty"`
}

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<tr>
<td>src/drivers/net/ns8390.h</td>
<td>BSD</td>
</tr>
<tr>
<td>src/arch/i386/include/bits/string.h</td>
<td>None</td>
</tr>
</tbody>
</table>
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Last updated: 2009-02-28

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1.3150 npm-user-validate 1.0.1

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* /opt/cola/permits/1137148391_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-gz/mod_authnz_external-3.3.2/mod_authnz_external.c

1.3159 fzambia-eagle 0.0.1

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1.3162 metrics-httpclient 4.1.16
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1.3165 gomega 1.16.0

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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-0.10.4.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: [{'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:

```
{ 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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Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.5
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3

Found in path(s):
* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/PKG-INFO
* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO

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netifaces 0.10.4

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

>>> 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: ["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::

{ 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]
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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.3176 cpuid 1.3.1

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1.3177 webencodings 0.5

1.3177.1 Available under license:

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```python
from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search(r'\nVERSION = \'([:\"]+)\'', io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Internet :: WWW/HTTP',
        ],
    packages=find_packages(),
)
```

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/setup.py

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/README.rst

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Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
This is a Python implementation of the `WHATWG Encoding standard`.
<http://encoding.spec.whatwg.org/>.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ```Content-Type: text/html; charset=latin1```,
tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, ```US-ASCII``` and ```iso-8859-1``` on the web are actually aliases for ```windows-1252```, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/PKG-INFO
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings.egg-info/PKG-INFO

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```webencodings.mklabels
```

```webencodings.mklabels
```
Regenerate the webencodings.labels module.

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===

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [
        """
        "webencodings.labels
        """,
        "Map encoding labels to their name.
        """,
        :copyright: Copyright 2012 by Simon Sapin
        :license: BSD, see LICENSE for details.
        """,
        "# XXX Do not edit!
        # This file is automatically generated by mklabels.py
        """,
        "LABELS = {
        """,
        "    labels = [
        """,
        "        (repr(assert_lower(label)).lstrip('u'),
        """,
        "        repr(encoding['name']).lstrip('u'))
        """,
        "        for category in json.loads(urlopen(url).read().decode('ascii'))
        """,
        "        for encoding in category['encodings']
        """,
        "        for label in encoding['labels']
        """,
        "        max_len = max(len(label) for label, name in labels)
        """,
        "        parts.extend(""",
        "            '{0:s}%s%0.*f
            %s\n' % (label, ' ' * (max_len - len(label)), name)
        """,
        "            for label, name in labels)
        """
    ]
    return parts

"""
parts.append('}')
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5.tar.gz/webencodings-0.5/webencodings/mklabels.py

1.3178 dkms 2.3-3ubuntu9.7
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1.3180 fonts-ubuntu 0.83-2

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UBUNTU FONT LICENCE Version 1.0
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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 [1]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 [2]Canonical and [3]Dalton Maag, be able to build on the existing font 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 [9]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 [11]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.

* 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 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 licence, 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:

1. Document embedding (see embedding section above).
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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### 1.3181 inflight 1.0.6

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1.3183 goprotobuf 1.4.0
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1.3184 update-manager 18.04.11.13
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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on

It was downloaded from http://code.launchpad.net/~ubuntu-core-dev/update-manager/main

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1.3188 lz4 1.7.0

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A

AES in libhcrypto
Optimised ANSI C code for the Rijndael cipher (now AES)

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rijndael-alg-fst.c

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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lib/hcrypto/test_dh.c

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.3206 sanitized-anchor-name 1.0.0

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1.3208 gofrs-flock 0.7.1

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1.3209 mergo 0.3.5

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.3210 color 1.9.0

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1.3211 python-gi 3.26.1-2ubuntu1

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

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

However, unrestricted linking of non-free programs would deprive the
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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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 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.

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

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

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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 pistream 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.

Author: Julio Merino <jmmv84@gmail.com>

---

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2


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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<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="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">
    <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public
     License, v. 2.0. If a copy of the MPL was not distributed with this
     file, You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
        <xsl:value-of select="$isc.copyright.text"/>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
1.3217 commons-io 1.3.2

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1.3218 gzip 1.6 5ubuntu1.1

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
        }
    })
}
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}
}

1.3220 goprotobuf 1.4.1

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1.3222 x-text 0.3.5

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1.3233 go-runtime 1.10
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1.3235 pljava-api 1.6.3

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1.3237 netbase 5.4

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1.3238 kr-text 0.2.0

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1.3242 httpcomponents-core 4.4.13

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1.3246 workerpool 6.1.5

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Protocol Buffers for Go with Gadgets

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1.3254 json-schema-traverse 0.4.1

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

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

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October 28, 1997

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Sam Lantinga (slouken@libsdl.org)
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Version 2.1, February 1999

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1.3272 xorm.io-builder 0.3.6

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1.3273 go-openapi-errors 0.20.0
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1.3274 string_decoder 1.1.1
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1.3275 python-click 6.7-3

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1.3276 go-runtime 1.13.10
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#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
# Individual’s name <submission email address>
# Individual’s name <submission email address> <email2> <emailN>
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

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<th>Email</th>
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</thead>
<tbody>
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version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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version 1.2.11, January 15th, 2017

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'WHIRLPOOL_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
]
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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```
```

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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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=======================================================================
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      'openssl/ssl/bio_ssl.c',
      'openssl/ssl/d1_lib.c',
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      'openssl/ssl/pqueue.c',
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      'openssl/ssl/record/ssl3_record_tls13.c',
      'openssl/ssl/s3_cbc.c',
      'openssl/ssl/s3_enc.c',
      'openssl/ssl/s3_lib.c',
      'openssl/ssl/s3_msg.c',
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      'openssl/ssl/ssl_ciph.c',
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      'openssl/ssl/ssl_err.c',
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      'openssl/ssl/ssl_stat.c',
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      'openssl/ssl/ssl_utst.c',
      'openssl/ssl/statem/extensions.c',
      'openssl/ssl/statem/extensions_clnt.c',
      'openssl/ssl/statem/extensions_cust.c',
      'openssl/ssl/statem/extensions_srvr.c',
      'openssl/ssl/statem/statem.c',
      'openssl/ssl/statem/statem_clnt.c',
      'openssl/ssl/statem/statem_dtls.c',
      'openssl/ssl/statem/statem_lib.c',
      'openssl/ssl/statem/statem_srvr.c',
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Open Source Used In SMI 2021.01.0-Apr-2022  32813
'openssl/crypto/ocsp/ocsp_srv.c',
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'openssl/crypto/rc2/rc2_ecb.c',
'openssl/crypto/rc2/rc2_skey.c',
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'openssl/crypto/siphash/siphash_pmeth.c',
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Open Source Used In SMI 2021.01.0-Apr-2022  32815
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'openssl/crypto/bio/bss_file.c',
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'openssl/crypto/blake2/m_blake2s.c',
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'openssl/crypto/camellia/cml1_cfb.c',
'openssl/crypto/camellia/cml1_ctr.c',
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Open Source Used In SMI 2021.01.0-Apr-2022 32822
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Open Source Used In SMI 2021.01.0-Apr-2022 32823
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'openssl/crypto/engine/eng_table.c',
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'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
'openssl/crypto/x509/x509_att.c',
'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
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'openssl/crypto/x509/x509_lu.c',
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'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',
'openssl/crypto/x509/x509_trs.c',
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'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509cset.c',
'openssl/crypto/x509/x509name.c',
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'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',
'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpols.c',
'openssl/crypto/x509v3/v3_crlid.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pcia.c',
'openssl/crypto/x509v3/v3_pcons.c',
'openssl/crypto/x509v3/v3_pku.c',
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'openssl/crypto/x509v3/v3_prm.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
]

'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm_avx2/crypto/aes/aesni-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/aes/vpaes-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/bn-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-mont.s',
  './config/archs/BSD-x86/asm_avx2/crypto/camellia/cmll-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/des/des-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/ecd/ecd_nistz256-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/modes/ghash-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/poly1305/poly1305-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.s',


```
{  
  'openssl_sources': ['./config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.s', 
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha512-586.s', 
  './config/archs/BSD-x86/asm_avx2/crypto/whirlpool/wp-mmx.s', 
  './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.s', 
  './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.s', 
],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'RMD160_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'POLY1305_ASM',
],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
  'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}
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'./config/archs/AXE64/asm/crypto/sha512-x64.s',
'./config/archs/AXE64/asm/crypto/whirlpool/wp-x64.s',
'./config/archs/AXE64/asm/crypto/x86_64cpuid.s',
'./config/archs/AXE64/asm/engines/e_padlock-x64.s',
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'NDEBUG',
'Z_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl cflags AXE64': [
'-Wa,--noexecstack',
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
```
assert.deepEqual(
valid('Apache 2.0'),
{
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
});

```
SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0-only OR BSD-2-Clause)'),
validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);

assert.deepEqual(
valid('(MIT OR LicenseRef-Made-Up)'),
validSPDXExpression
);

```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(valid('SEE LICENSE IN LICENSE.txt'),
{
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
});
```

```javascript
assert.deepEqual(valid('SEE LICENSE IN license.md'),
{
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
});
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.3285 docker-distribution 0.0.0-20191216044856-a8371794149d

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Gocheck - A rich testing framework for Go

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1.3287 apiextensions-apiserver 0.17.2

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1.3288 libunwind 1.2.1 8

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1.3289 x-text 0.3.7

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1.3290 kubernetes-klog 2.8.0

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1.3291 bluez 5.48-0ubuntu3.8

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Version 3, 29 June 2007

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// For more information: http://goo.gl/8us55a#licenseObject

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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin    string
    Option    string
    Severity  string // 'deprecated', 'removed', or 'unsupported'
ReplacedBy string
Additional string
Version string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name>\:\<path\>`
Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

Specify the Container within a Pod running multiple containers.

```
-kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

Set the Pod namespace by prefixing the Pod name with `<namespace>`.

```
-kubectl cp /tmp/foo <pod-namespace>:/tmp/bar
```

```bash
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar

```{% endmethod %}
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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature", Value: types.KeyValue{Key: "serialuri:2", Value: "Remote virtual Serial Port Concentrator"}},
        {Key: "feature", Value: types.KeyValue{Key: "dvs", Value: "vSphere Distributed Switch"}},
    }
}

type LicenseManager struct {
    mo.LicenseManager
}
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
m := &LicenseManager{
    Self = ref
    Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:,...]
            return body
        }
    }

    return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        body := &methods.UpdateLicenseLabelBody{

for i := range m.Licenses {
    license := &m.Licenses[i]
        license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
            if req.LicenseKey != license.LicenseKey {
            continue
                        continue

                body.Res = new(types.UpdateLicenseLabelResponse)
                    body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]
        label := &license.Labels[j]

            if label.Key == req.LabelKey {
                    if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                                license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                            } else {
                                    label.Value = req.LabelValue
                                        label.Value = req.LabelValue
                                    return body
                                        return body
                                }
                        }
                    }
    }
    license.Labels = append(license.Labels, types.KeyValue{
                        license.Labels = append(license.Labels, types.KeyValue{
                    Key:   req.LabelKey,
                        Key:   req.LabelKey,
                    Value: req.LabelValue,
                        Value: req.LabelValue,
                })
                return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
            body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

    type LicenseAssignmentManager struct {
        mo.LicenseAssignmentManager
    }

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        body := &methods.QueryAssignedLicensesBody{
    Res: &types.QueryAssignedLicensesResponse{}},
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
      Type: "HostSystem",
      Value: req.EntityId,
    }

    if Map.Get(id) == nil {
      return body
    }
  }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
  },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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proocs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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

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

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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.

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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   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.

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1.3298 cloud-google-com-go 0.97.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get                []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...) string
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicenseCodesClient

  // The call options for this service.
  CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
  return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
  c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
  return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
  return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
  return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

type licenseCodesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
  clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }
  c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
  }
  c.setGoogleClientInfo()

  return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/")
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapi", "gax", gax.Version, "rest", "UNKNOWN")
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetLicenseCode())

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (     
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
resp, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {

// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_= resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_= resp
}

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```go
def err { defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    func ExampleLicenseCodesClient_TestIamPermissions() {
        ctx := context.Background()
        c, err := compute.NewLicenseCodesRESTClient(ctx)
        if err != nil {
            // TODO: Handle error.
        }
        defer c.Close()

        req := &computepb.TestIamPermissionsLicenseCodeRequest{
            // TODO: Fill request struct fields.
            // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
        }
        resp, err := c.TestIamPermissions(ctx, req)
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
```

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custom package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete     []gax.CallOption
    Get        []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert     []gax.CallOption
    List       []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
        (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts := append(defaultLicensesRESTClientOptions(), opts...)...)
    return httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)

if err != nil {
    return nil, err
}

c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId()),
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{}
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }

    op := &Operation{proto: rsp}
    return op, err
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
  baseUrl, _ := url.Parse(c.endpoint)

  if err != nil {
    return nil, err
  }
  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  rsp := &computepb.License{
    
  }
  if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
  }
  return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
  baseUrl, _ := url.Parse(c.endpoint)

  if err != nil {
    return nil, err
  }
  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  rsp := &computepb.Policy{
    
  }
  if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
  }
  return rsp, nil
}
req.GetResource()

params := url.Values{
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}

httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
	rsp := &computepb.Policy{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
    // Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
      resp := &computepb.LicensesListResponse{}
      if pageToken != "" {
        req.PageToken = proto.String(pageToken)
      }
      if pageSize > math.MaxInt32 {
        req.MaxResults = proto.Uint32(math.MaxInt32)
      } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
      }
      baseUrl, _ := url.Parse(c.endpoint)
      params := url.Values{}
      if req != nil && req.Filter != nil {
      }
      if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
      }
      if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
      }
      if req != nil && req.PageToken != nil {
      }
      if req != nil && req.ReturnPartialSuccess != nil {
      }
      baseUrl.RawQuery = params.Encode()
if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deffer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
return rsp, nil
}

// LicenseIterator manages a stream of *compute.License.
type LicenseIterator struct {
    items    []*compute.License
    pageInfo *iterator.PageInfo
    nextFunc func() error
}

// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*compute.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*compute.License, error) {
    var item *compute.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}
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1.3302 kubernetes-kubectl 0.18.4
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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

**Install Tar**

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.
- Local file format is `\<path>`
- Remote file format is `\<pod-name>\<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```  

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>\<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```  

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```  

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>`.

- `\<pod-namespace>\<pod-name>\<path>`
```
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.3303 benbjohnson-clock 1.0.3

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1.3305 base-files 10.1ubuntu2.10

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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cd5d95a43a6e

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1.3311 objx 0.2.0

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1.3312 kubernetes-client 0.0.0-
20190620085101-78d2af792bab

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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1.3317 pyparsing 2.2.0

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1.3320 spdx-correct 3.1.1

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1.3321 structured-merge-diff 4.2.1

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1.3324 spf13-pflag 1.0.5

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1.3325 body-parser 1.19.0

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1.3326 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

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tomb - support for clean goroutine termination in Go.

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1.3327 kubernetes-apimachinery 0.18.0

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package github

import {
    "fmt"
    "net/http"
    "reflect"
    "testing"
}

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `{"key":"mit","name":"MIT"}
    })

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}
license, _ err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get(""")
    testURLParseError(t, err)
}

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL  *string `json:"html_url",omitempty`
    Featured *bool `json:"featured",omitempty`
    Description *string `json:"description",omitempty`
    Category *string `json:"category",omitempty`
    Implementation *string `json:"implementation",omitempty`
    Required  *[[]string `json:"required",omitempty"`
    Permitted  *[[]string `json:"permitted",omitempty"`
    Forbidden  *[[]string `json:"forbidden",omitempty"`
    Body       *string `json:"body",omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}
// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.3335 python3-psycopg2 2.7.4-1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3338 drbd-utils 8.9.10-2ubuntu0.1

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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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1.3351 libnlroute 3.2.29-0ubuntu3

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging
of libnl1.

It was downloaded from https://github.com/thom311/libnl/releases

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lib/route/addr.c
include/netlink/route/addr.h

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src/nl-addr-list.c
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src/cls/utils.c
src/cls/group.c
src/cls/utils.h
src/cls/basic.c
src/nl-addr-delete.c:

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include/netlink/xfrm/sa.h
include/netlink/xfrm/ae.h
include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
lib/xfrm/ae.c
lib/xfrm/sp.c
lib/xfrm/selector.c
lib/xfrm/lifetime.c

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1.3353 opencensus 0.22.0

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1.3354 lib-pq 1.3.0

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# node-libpq

[![Build Status](https://travis-ci.org/brianc/node-libpq.svg?branch=master)](https://travis-ci.org/brianc/node-libpq)

Node native bindings to the PostgreSQL [libpq](http://www.postgresql.org/docs/9.3/interactive/libpq.html) C client library. This module attempts to mirror _as closely as possible_ the C API provided by libpq and provides the absolute minimum level of abstraction. It is intended to be extremely low level and allow you the same access as you would have to libpq directly from C, except in node.js! The obvious trade-off for being "close to the metal" is
having to use a very "c style" API in JavaScript.

If you have a good understanding of libpq or used it before hopefully the methods within node-libpq will be familiar; otherwise, you should probably spend some time reading [the official libpq C library documentation](http://www.postgresql.org/docs/9.3/interactive/libpq.html) to become a bit familiar. Referencing the libpq documentation directly should also provide you with more insight into the methods here. I will do my best to explain any differences from the C code for each method.

I am also building some [higher level abstractions](https://github.com/brianc/node-pg-native) to eventually replace the `pg.native` portion of node-postgres. They should help as reference material.

This module relies heavily on [nan](https://github.com/rvagg/nan) and wouldn't really be possible without it. Mucho thanks to the node-nan team.

### install

You need libpq installed & the `pg_config` program should be in your path. You also need [node-gyp](https://github.com/TooTallNate/node-gyp) installed.

```bash
t$ npm install libpq
```

### use

```js
var Libpq = require('libpq');
var pq = new Libpq();
```

### API

#### connection functions

Libpq provides a few different connection functions, some of which are "not preferred" anymore. I've opted to simplify this interface a bit into a single `async` and single `sync` connection function. The function accepts an connection string formatted as outlined in this documentation in section 31.1.1([http://www.postgresql.org/docs/9.3/static/libpq-connect.html](http://www.postgresql.org/docs/9.3/static/libpq-connect.html)). If the parameters are not supplied, libpq will automatically use environment variables, a pgpass file, and other options. Consult the libpq documentation for a better rundown of all the ways it tries to determine your connection parameters.

I personally always connect with environment variables and skip supplying the optional `connectionParams`. Easier, more 12 factor app-ish, and you never risk hard coding any passwords. YMMV. :smile:

```js
`pq.connect([connectionParams:string], callback:function)`
```

Asynchronously attempts to connect to the postgres server.
- `connectionParams` is an optional string
- `callback` is mandatory. It is called when the connection has successfully been established.

__async__ Connects to a PostgreSQL backend server process.

This function actually calls the `PQconnectdb` blocking connection method in a background thread within node's internal thread-pool. There is a way to do non-blocking network I/O for some of the connecting with libpq directly, but it still blocks when your local file system looking for config files, SSL certificates, .pgpass file, and doing possible dns resolution. Because of this, the best way to get _fully_ non-blocking is to use `libuv_queue_work` and let node do it's magic and so that's what I do. This function _does not block_.

##### `pq.connectSync([connectionParams:string])`

Attempts to connect to a PostgreSQL server. __BLOCKS__ until it either succeeds, or fails. If it fails it will throw an exception.

- `connectionParams` is an optional string

##### `pq.finish()`

Disconnects from the backend and cleans up all memory used by the libpq connection.

### Connection Status Functions

##### `pq.errorMessage():string`

Retrieves the last error message from the connection. This is intended to be used after most functions which return an error code to get more detailed error information about the connection. You can also check this _before_ issuing queries to see if your connection has been lost.

##### `pq.socket():int`

Returns an int representing the file descriptor for the socket used internally by the connection.

### Sync Command Execution Functions

##### `pq.exec(commandText:string)`

__sync__ sends a command to the backend and blocks until a result is received.

- `commandText` is a required string of the query.

##### `pq.execParams(commandText:string, parameters:array[string])`

__sync__ sends a command and parameters to the backend and blocks until a result is received.

- `commandText` is a required string of the query.
- `parameters` is a required array of string values corresponding to each parameter in the commandText.
##### `pq.prepare(statementName:string, commandText:string, nParams:int)`

__sync__ sends a named statement to the server to be prepared for later execution. blocks until a result from the prepare operation is received.

- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

##### `pq.execPrepared(statementName:string, parameters:array[string])`

__sync__ sends a command to the server to execute a previously prepared statement. blocks until the results are returned.

- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.

### Async Command Execution Functions

In libpq the async command execution functions _only_ dispatch a request to the backend to run a query. They do not start result fetching on their own. Because libpq is a C api there is a somewhat complicated "dance" to retrieve the result information in a non-blocking way. node-libpq attempts to do as little as possible to abstract over this; therefore, the following functions are only part of the story. For a complete tutorial on how to dispatch & retrieve results from libpq in an async way you can [view the complete approach here](https://github.com/brianc/node-pg-native/blob/master/index.js#L105)

##### `pq.sendQuery(commandText:string):boolean`

__async__ sends a query to the server to be processed.

- `commandText` is a required string containing the query text.

Returns `true` if the command was sent succesfully or `false` if it failed to send.

##### `pq.sendQueryParams(commandText:string, parameters:array[string]):boolean`

__async__ sends a query and to the server to be processed.

- `commandText` is a required string containing the query text.
- `parameters` is an array of parameters as strings used in the parameterized query.

Returns `true` if the command was sent succesfully or `false` if it failed to send.

##### `pq.sendPrepare(statementName:string, commandText:string, nParams:int):boolean`

__async__ sends a request to the backend to prepare a named statement with the given name.

- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

Returns `true` if the command was sent succesfully or `false` if it failed to send.
##### `pq.sendQueryPrepared(statementName:string, parameters:array[string]):boolean`  
__async__ sends a request to execute a previously prepared statement.

- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.

##### `pq.getResult():boolean`  
Parses received data from the server into a `PGresult` struct and sets a pointer internally to the connection object to this result. __warning__: this function will __block__ if libpq is waiting on async results to be returned from the server. Call `pq.isBusy()` to determine if this command will block.

Returns `true` if libpq was able to read buffered data & parse a result object. Returns `false` if there are no results waiting to be parsed. Generally doing async style queries you'll call this repeatedly until it returns false and then use the result accessor methods to pull results out of the current result set.

### Result accessor functions

After a command is run in either sync or async mode & the results have been received, node-libpq stores the results internally and provides you access to the results via the standard libpq methods. The difference here is libpq will return a pointer to a PGresult structure which you access via libpq functions, but node-libpq stores the most recent result within itself and passes the opaque PGresult structure to the libpq methods. This is to avoid passing around a whole bunch of pointers to unmanaged memory and keeps the burden of properly allocating and freeing memory within node-libpq.

##### `pq.resultStatus():string`  
Returns either `PGRES_COMMAND_OK` or `PGRES_FATAL_ERROR` depending on the status of the last executed command.

##### `pq.resultErrorMessage():string`  
Retrieves the error message from the result. This will return `null` if the result does not have an error.

##### `pq.resultErrorFields():object`  
Retrieves detailed error information from the current result object. Very similar to `PQresultErrorField()` except instead of passing a fieldCode and retrieving a single field, retrieves all fields from the error at once on a single object. The object returned is a simple hash, _not_ an instance of an error object. Example: if you wanted to access `PG_DIAG_MESSAGE_DETAIL` you would do the following:

```js
console.log(pq.errorFields().messageDetail)
```

##### `pq.clear()`  
Manually frees the memory associated with a `PGresult` pointer. Generally this is called for you, but if you
absolutely want to free the pointer yourself, you can.

##### `pq.ntuples():int`

Retrieve the number of tuples (rows) from the result.

##### `pq.nfields():int`

Retrieve the number of fields (columns) from the result.

##### `pq.fname(fieldNumber:int):string`

Retrieve the name of the field (column) at the given offset. Offset starts at 0.

##### `pq.ftype(fieldNumber:int):int`

Retrieve the `Oid` of the field (column) at the given offset. Offset starts at 0.

##### `pq.getvalue(tupleNumber:int, fieldNumber:int):string`

Retrieve the text value at a given tuple (row) and field (column) offset. Both offsets start at 0. A null value is returned as the empty string `''`.

##### `pq.getisnull(tupleNumber:int, fieldNumber:int):boolean`

Returns `true` if the value at the given offsets is actually `null`. Otherwise returns `false`. This is because `pq.getvalue()` returns an empty string for both an actual empty string and for a `null` value. Weird, huh?

##### `pq.cmdStatus():string`

Returns the status string associated with a result. Something akin to `INSERT 3 0` if you inserted 3 rows.

##### `pq.cmdTuples():string`

Returns the number of tuples (rows) affected by the command. Even though this is a number, it is returned as a string to mirror libpq's behavior.

### Async socket access

These functions don't have a direct match within libpq. They exist to allow you to monitor the readability or writability of the libpq socket based on your platforms equivalent to `select()`. This allows you to perform async I/O completely from JavaScript.

##### `pq.startReader()`

This uses libuv to start a read watcher on the socket open to the backend. As soon as this socket becomes readable the `pq` instance will emit a `"readable"` event. It is up to you to call `pq.consumeInput()` one or more times to clear this read notification or it will continue to emit read events over and over and over. The exact flow is outlined [here](#)
under the documentation for `'PQisBusy'`.

```c
`pq.stopReader()
```

Tells libuv to stop the read watcher on the connection socket.

```c
`pq.writable(callback:function)
```

Call this to make sure the socket has flushed all data to the operating system. Once the socket is writable, your callback will be called. Usefully when using `'PQsetNonBlocking` and `'PQflush` for async writing.

### More async methods

These are all documented in detail within the [libpq documentation](http://www.postgresql.org/docs/9.3/static/libpq-async.html) and function almost identically.

```c
`pq.consumeInput():boolean`
```

Reads waiting data from the socket. If the socket is not readable and you call this it will __block__ so be careful and only call it within the 'readable' callback for the most part.

Returns `true` if data was read. Returns `false` if there was an error. You can access error details with `'pq.errorMessage()'`.

```c
`pq.isBusy():boolean`
```

Returns `true` if calling `'pq.consumeInput()' would block waiting for more data. Returns `false` if all data has been read from the socket. Once this returns `false` it is safe to call `'pq.getResult()'`

```c
`pq.setNonBlocking(nonBlocking:boolean):boolean`
```

Toggle the socket blocking on _write_. Returns `true` if the socket's state was succesfully toggled. Returns `false` if there was an error.

- `nonBlocking` is `true` to set the connection to use non-blocking writes. `false` to use blocking writes.

```c
`pq.flush():int`
```

Flushes buffered data to the socket. Returns `1` if socket is not write-ready at which case you should call `'pq.writable' with a callback and wait for the socket to be writable and then call `'pq.flush()` again. Returns `0` if all data was flushed. Returns `-1` if there was an error.

### listen/notify

```c
`pq.notifies():object`
```

Checks for `'NOTIFY` messages that have come in. If any have been received they will be in the following format:
```js
var msg = {
    relname: 'name of channel',
    extra: 'message passed to notify command',
    be_pid: 130
}
```

### COPY IN/OUT

##### `pq.putCopyData(buffer:Buffer):int`

After issuing a successful command like `COPY table FROM stdin` you can start putting buffers directly into the database with this function.

- `buffer` is a required node buffer of text data such as `Buffer('column1\tcolumn2\n')`

Returns `1` if sent successfully. Returns `0` if the command would block (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

##### `pq.putCopyEnd([errorMessage:string])`

Signals the backed your copy procedure is complete. If you pass `errorMessage` it will be sent to the backend and effectively cancel the copy operation.

- `errorMessage` is an _optional_ string you can pass to cancel the copy operation.

Returns `1` if sent successfully. Returns `0` if the command would block (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

##### `pq.getCopyData(async:boolean):Buffer or int`

After issuing a successful command like `COPY table TO stdout` gets copy data from the connection.

Returns a node buffer if there is data available.

Returns `0` if the copy is still in progress (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if the copy is completed. Returns `-2` if there was an error.

- `async` is a boolean. Pass `false` to _block_ waiting for data from the backend. _defaults to `false`_

### Misc Functions

##### `pq.escapeLiteral(input:string):string`

Exact copy of the `PQescapeLiteral` function within libpq. Requires an established connection but does not perform any I/O.
`pq.escapeIdentifier(input:string):string`

Exact copy of the `PQescapeIdentifier` function within libpq. Requires an established connection but does not perform any I/O.

`pq.cancel():true -or- string`

Issues a request to cancel the currently executing query on this instance of libpq. Returns `true` if the cancel request was sent. Returns a `string` error message if the cancel request failed for any reason. The string will contain the error message provided by libpq.

## testing

```sh
$ npm test
```

To run the tests you need a PostgreSQL backend reachable by typing `psql` with no connection parameters in your terminal. The tests use [environment variables](http://www.postgresql.org/docs/9.3/static/libpq-envars.html) to connect to the backend.

An example of supplying a specific host the tests:

```sh
$ PGHOST=blabla.mydatabasehost.com npm test
```

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* /opt/cola/permits/1226182812_1636511292.62/0/libpq-1-3-0-1-tgz/package/README.md

1.3355 toml 0.10.2

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package api

import (  
    "io/ioutil"  
    "strings"  
    "time"  
)

type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return ",", err
    }
    defer closeResponseBody(resp)

data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return ",", err
    }
return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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package minio

import (  
    "bytes"  
    "context"  
    "encoding/xml"  
    "fmt"  
    "net/http"  
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in  
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// type objectLegalHold struct {  
//    XMLNS string `xml:"xmlns,attr,omitempty"
//    XMLName xml.Name `xml:"LegalHold"
//    Status LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
// type PutObjectLegalHoldOptions struct {  
//    VersionID string  
//    Status  *LegalHoldStatus
// }

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
// type GetObjectLegalHoldOptions struct {  
//    VersionID string
// }

// LegalHoldStatus - object legal hold status.
// type LegalHoldStatus string

const (  
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {  
    return string(r)
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
return err

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    })

objectName:       objectName,
queryValues:      urlValues,
contentSHA256Hex: emptySHA256Hex,
}
}
def closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
    }
    if err = xml.NewDecoder(resp.Body).Decode(&lh); err != nil {
        return nil, err
    }
}
return &lh.Status, nil
}

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package spec
import (
  "encoding/json"

  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (*License) UnmarshalJSON(data []byte) error {
  if err := json.Unmarshal(data, &LicenseProps); err != nil {
    return err
  }
  return json.Unmarshal(data, &VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  if err != nil {
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)
  if err != nil {
    return nil, err
  }
  return swag.ConcatJSON(b1, b2), nil
}

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1.3369 gopkg.in/gorp.v1 1.7.2

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1.3370 github.com/naoina/go-stringutil 0.1.0

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1.3371 census-instrumentation-opencensus-proto 0.3.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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