Open Source Used In Virtual Topology System 2.6.7

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1.1 distlib 0.2.2

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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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=======================
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!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
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- Yannick Gingras
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* /opt/cola/permits/1114600276_1607534011.57/0/randomizedtesting-runner-2-7-2-sources-jar/com/carrotsearch/randomizedtesting/rules/NoClassHooksShadowingRule.java
* /opt/cola/permits/1114600276_1607534011.57/0/randomizedtesting-runner-2-7-2-sources-jar/com/carrotsearch/randomizedtesting/rules/NoInstanceHooksOverridesRule.java
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code or patches to this implementation of sudo since I began
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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.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoible, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gabor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frederic
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
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1.6 libhttp-date-perl 6.02-1
1.6.1 Available under license :
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license: perl

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
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=head1 NAME

HTTP::Date - date conversion routines
use HTTP::Date;

$string = time2str($time);    # Format as GMT ASCII time
$time = str2time($string);    # convert ASCII date to machine time

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.

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

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.
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

"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 I<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.
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
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"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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1.7 open-vm-tools 10.2.0 3~ubuntu0.16.04.1

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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
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>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.15 pycparser 2.19

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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/CustomConcurrentHashMap.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ForwardingFuture.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/base/internal/Finalizer.java
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  jar/com/google/common/collect/GenericMapMaker.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
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 */
/**
 * Searches the specified list for the specified object using the binary
 * search algorithm. The list must be sorted into ascending order according to
 * the specified comparator (as by the Collections.sort(List,
 * Comparator) method), prior to making
 * this call. If it is not sorted, the results are undefined.
 *
 * Returns the index of the element in the list which has the specified
 * Relation to the specified object. So as to provide meaningful
 * results in all cases, -1 is considered to be the index of negative
 * infinity, and @code list.size() is considered to be the index of positive
 * infinity. The exception is Relation.EQUAL. If Relation.EQUAL
 * is specified and no equal element is found, -1 is returned, but it
* should not be interpreted as "negative infinity."
*
* <p> If there are duplicate elements, see the documentation on the relation
* for more details.
*
* <p> This method runs in \( \log(n) \) time for a random access list (which
* provides near-constant-time positional access).
*
* @param list the list to be searched.
* @param e the value to be searched for.
* @param comparator the comparator by which the list is ordered.
* @return the index of element with the specified relation to the search key,
* if it is contained in the list. Otherwise, if negative infinity has
* the specified relation (or if \{ @code relation \} is \{ @code EQUAL \} and
* the search key was not in the list), returns \{ @code -1 \}, or if
* positive infinity has the specified relation, returns \{ @code
* list.size() \}.
* @throws NullPointerException if \{ @code key \} is null and the specified
* comparator does not accept null values.
* @throws ClassCastException if the list contains elements that are not
* &lt;i&gt;matically comparable&lt;/i&gt; using the specified comparator, or the
* search key is not mutually comparable with the elements of the list
* using this comparator.
*/

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jar/com/google/common/collect/SortedLists.java

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*
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
*/

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 */
/**
 * Wrapper around {@link System#arraycopy} so that it can be emulated
 * correctly in GWT.
 *
 * <p>It is only intended for the case {@code src} and {@code dest} are
 * different. It also doesn't validate the types and indices.
 *
 * <p>As of GWT 2.0, The built-in {@link System#arraycopy} doesn't work
 * in general case. See
 * http://code.google.com/p/google-web-toolkit/issues/detail?id=3621
 * for more details.
 */

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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/io/Closeables.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/EmptyImmutableSet.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/TreeMultimap.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collect/Multimaps.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collection/SingletonImmutableSet.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collection/Interner.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collection/NaturalOrdering.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collection/ForwardingQueue.java
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* /opt/cola/permits/1110728216_1606847014.1/0/guava-r09-sources-1-jar/com/google/common/collection/Collections2.java
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1.18 mawk 1.3.3 17ubuntu2

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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\n";
print <$cl>;

# simple server
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">  
-item * L</"Description Of Methods">  

=back

Additional documentation can be found in

-over 4

-item * L</IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL  
-item * L</IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=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'.

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SSL enables end-to-end security by providing two essential functions:

- 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.

- 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 issuer's 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.

=item *

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.

=item *

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.

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 L<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:

    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:

    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 $client "GET / HTTP/1.0\r\n\r\n";
    print <$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:

    # 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',
    ) or die "failed to listen: $!";

    # accept client
    my $client = $server->accept or die
    "failed to accept or ssl handshake: $!/SSL_ERROR";

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,
);

# accept client
my $client = $server->accept or die;

# 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 certificates by their certificate 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 they hostname you expect in the certificate.

=back

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.

=item *
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">.

=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.
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 debug levels are defined, but used not in any consistent way:

- 0 - No debugging (default).
- 1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.
- 2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.
- 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:
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>.

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.

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.

=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 can not 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 ( 1 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;
    } else ( ! $n ) {
        last; # eof
    } else {
        # read next bytes
        # we might have still data within the current SSL frame
        # thus first process these data instead of waiting on the underlying
        # socket object
        goto READ if $cl->pending; # goto sysread
        next; # goto $sel->can_read
    }
}

=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>.

=head2 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 C<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 a IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again a IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>. While this base class can be replaced with L<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, L<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 C<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 again a IO::Socket::INET object ...
```
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still a IO::Socket::SSL object ...
... but data exchanged again in plain ...

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<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.

=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.

=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 `PeerAddr`, which will fail if only an IP was given or if this argument is used within `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 `accept_SSL` or `connect_SSL`. Before the handshake is started read/write/etc. can be used to exchange plain data.

=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 (`SSL_ca_file`) or directory (`SSL_ca_path`) containing the certificate(s) of the trusted certificate authorities.

`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 `;` on DOS, Windows, Netware, `,` on VMS and `:` 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 `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 `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 `undef` or `SSL_ca` to an empty list. (Unfortunately `''` 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 they required certificate from a list of certificates.

The value for these options is similar to `SSL_ca` and `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.
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 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 a X509* object (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with SSL_cert. 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 a EVP_PKEY* object with SSL_key (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2key>).
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 builtin
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 and 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 `SSL_dh_file` nor `SSL_dh` is set, a built-in DH parameter with a length of 2048 bits 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 `SSL_dh` parameter to `undef`.

=tl;dr; SSL_dh

Like `SSL_dh_file`, but instead of giving a file you use a preloaded or generated DH.

=tl;dr; 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 >>.

=tl;dr; 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).

=tl;dr; 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

=tl;dr; 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=tl;dr; 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.

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<|>:
=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 by 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 contextes. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with
\[
\text{C<IO::Socket::SSL::OCSP_Cache->new([size])>}
\]
or implement your own cache, which needs to have methods \text{C<put($key,%entry)>} and \text{C<get($key)->%entry>}
where entry is the hash representation of the OCSP response with fields like \text{C<nextUpdate>}. The default implementation of the cache will consider responses valid as long as \text{C<nextUpdate>} is less than the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of \text{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 \text{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 \text{new()} will be ignored unless the context supplied was invalid. Note that, contrary to versions of \text{IO::Socket::SSL} below \text{v0.90}, a global SSL context will not be implicitly used unless you use the \text{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:

\[
\begin{aligned}
\text{SSL_create_ctx_callback} &= \text{sub} \\
\text{my $ctx = shift;}
\text{Net::SSLeay::CTX_sess_set_cache_size($ctx,128);}
\end{aligned}
\]
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+.
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.

=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.
There are a number of nasty traps that lie in wait if you are not careful about using close(). The first of these will bite you if you have been using shutdown() on your sockets. Since the SSL protocol mandates that a SSL "close notify" message be sent before the socket is closed, a shutdown() that closes the socket's write channel will cause the close() call to hang. For a similar reason, if you try to close a copy of a socket (as in a forking server) you will affect the original socket as well.

To get around these problems, call close with an object-oriented syntax (e.g. $socket->close(SSL_no_shutdown => 1)) and one or more of the following parameters:

- SSL_no_shutdown

  If set to a true value, this option will make close() not use the SSL_shutdown() call on the socket in question so that the close operation can complete without problems if you have used shutdown() or are working on a copy of a socket.

  Not using a real ssl shutdown on a socket will make session caching unusable.

- SSL_fast_shutdown

  If set to true only a unidirectional shutdown will be done, e.g. only the close_notify (see SSL_shutdown(3)) will be sent. Otherwise a bidirectional shutdown will be done where it waits for the close_notify of the peer too.

  Because a unidirectional shutdown is enough to keep session cache working it defaults to fast shutdown inside close.

- SSL_ctx_free

  If you want to make sure that the SSL context of the socket is destroyed when you close it, set this option to a true value.

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 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 function 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.

syswrite will write all the data within a single SSL frame, which means, that no more than 16.384 bytes, which is the maximum size of an SSL frame, can 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])>

This method 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.
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.

=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<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_servername>

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):
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.

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.

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.

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

No wildcards are allowed and common name is checked even if subjectAltNames exist.

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.

- **callback**: \\&coderef

  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() >>.

=item B<alpn_selected()>

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() >>.

=item B<errstr()>

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.

=item B<opened()>

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.

=item B<< IO::Socket::SSL->start_SSL($socket, ... ) >>

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).

=item B<ocsp_resolver>

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 C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with 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 C<$ssl->ocsp_resolver> and provides
the following methods:

=over 8

=item hard_error

This returns the hard error when checking the OCSP response. Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of 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 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 C<"">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(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 an content-type of C<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 C<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 an response to all these requests, so that one has to ask again with the remaining requests.

=item add_response($uri,$response)

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.

=item resolve_blocking(%args)
This combines `requests` and `add_response` which `HTTP::Tiny` to do all necessary requests in a blocking way. `%args` will be given to `HTTP::Tiny` so that you can put proxy settings etc here. `HTTP::Tiny` will be called with `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 `requests` and `add_response`.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

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 `new_from_fd` method of the super class (L<IO::Socket::INET> or similar) and then `start_SSL` will be called using the given `%sslargs`.
If $fd is already an IO::Socket object you should better call `start_SSL` directly.

=item B<IO::Socket::SSL::default_ca([ path|dir| SSL_ca_file => ..., SSL_ca_path => ... ])>  
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 `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.
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).

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 and add_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.

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:

Similar to C<set_defaults>, but only sets the defaults for client mode.

Similar to C<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:

    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 C<set_args_filter_hack('use_defaults')> it will prefer the default settings in all cases. These default settings can be modified with C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to mention futile!) and IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

=back
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

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.
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.

SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

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.

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Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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Found in path(s):
* /opt/cola/permits/1143253343_1615553111.47/0/libio-socket-ssl-perl-2-024-orig-1-tar-gz/IO-Socket-SSL-2.024/lib/IO/Socket/SSL.pod

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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 6.98, CPAN::Meta::Converter version 2.120630'
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:
  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: '2.024'

Found in path(s):
* /opt/cola/permits/1143253343_1615553111.47/0/libio-socket-ssl-perl-2-024-orig-1-tar-gz/IO-Socket-SSL-2.024/META.yml

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Noggit is a fast streaming JSON parser for java. The code is included into Solr codebase.

https://github.com/yonik/noggit

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1.29 solr-dataimporthandler-extras 8.8.2

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The primary ANTLR guy:

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\texttt{analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt},
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\texttt{analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java}

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https://github.com/yonik/noggit

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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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Gocheck - A rich testing framework for Go

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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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1.37 libstrictures-perl 2.000002-1

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=pod
=encoding UTF-8

=head1 NAME

ExtUtils::HasCompiler - Check for the presence of a compiler

=head1 VERSION

version 0.012

=head1 DESCRIPTION

This module tries to check if the current system is capable of compiling, linking and loading an XS module.

B<Notice>: this is an early release, interface stability isn't guaranteed yet.

=head1 FUNCTIONS

=head2 can_compile_loadable_object(%opts)

This checks if the system can compile, link and load a perl loadable object. It may take the following options:
Do not output the executed compilation commands.

An L<ExtUtils::Config> (compatible) object for configuration.

This causes can_compile_loadable_object to not try to load the generated object. This defaults to true on a cross-compiling perl.

Leon Timmermans <leont@cpan.org>

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Found in path(s):
* /opt/cola/permits/1144946332_1633499397.43/0/libstrictures-perl-2-000002-orig-1-tar-gz/strictures-2.000002/inc/ExtUtils/HasCompiler.pm
No license file was found, but licenses were detected in source scan.

strictures - turn on strict and make most warnings fatal

use strictures 2;

is equivalent to

use strict;
use warnings FATAL => 'all';
use warnings NONFATAL => qw(
exec
recursion
internal
malloc
newline
experimental
deprecated
portable);
no warnings 'once';

except when called from a file which matches:

(caller)[1] =~ /^(?::t|xt|lib|blib)[\\/]/

and when either C<.git>, C<svn>, C<hg>, or C<bzr> is present in the current
directory (with the intention of only forcing extra tests on the author side)
-- or when C<.git>, C<svn>, C<hg>, or C<bzr> is present two directories up
along with C<dist.ini> (which would indicate we are in a C<dzil test> operation,
via L<Dist::Zilla>) -- or when the C<PERL STRICTURES EXTRA> environment variable
is set, in which case it also does the equivalent of

no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

Note that C<PERL STRICTURES EXTRA> may at some point add even more tests, with
only a minor version increase, but any changes to the effect of C<use
strictures> in normal mode will involve a major version bump.

If any of the extra testing modules are not present, L<strictures> will
complain loudly, once, via C<warn()>, and then shut up. But you really
should consider installing them, they're all great anti-footgun tools.

=head1 DESCRIPTION

I've been writing the equivalent of this module at the top of my code for
about a year now. I figured it was time to make it shorter.

Things like the importer in C<use Moose> don't help me because they turn
warnings on but don't make them fatal -- which from my point of view is
useless because I want an exception to tell me my code isn't warnings-clean.

Any time I see a warning from my code, that indicates a mistake.

Any time my code encounters a mistake, I want a crash -- not spew to STDERR
and then unknown (and probably undesired) subsequent behaviour.
I also want to ensure that obvious coding mistakes, like indirect object syntax (and not so obvious mistakes that cause things to accidentally compile as such) get caught, but not at the cost of an XS dependency and not at the cost of blowing things up on another machine.

Therefore, L<strictures> turns on additional checking, but only when it thinks it's running in a test file in a VCS checkout -- although if this causes undesired behaviour this can be overridden by setting the C<PERL STRICTURES EXTRA> environment variable.

If additional useful author side checks come to mind, I'll add them to the C<PERL STRICTURES EXTRA> code path only -- this will result in a minor version increase (e.g. 1.000000 to 1.001000 (1.1.0) or similar). Any fixes only to the mechanism of this code will result in a sub-version increase (e.g. 1.000000 to 1.000001 (1.0.1)).

=head1 CATEGORY SELECTIONS

strictures does not enable fatal warnings for all categories.

=over 4

=item exec

Includes a warning that can cause your program to continue running unintentionally after an internal fork. Not safe to fatalize.

=item recursion

Infinite recursion will end up overflowing the stack eventually anyway.

=item internal

Triggers deep within perl, in places that are not safe to trap.

=item malloc

Triggers deep within perl, in places that are not safe to trap.

=item newline

Includes a warning for using stat on a valid but suspect filename, ending in a newline.

=item experimental

Experimental features are used intentionally.
Deprecations will inherently be added to in the future in unexpected ways, so making them fatal won't be reliable.

 Doesn't indicate an actual problem with the program, only that it may not behave properly if run on a different machine.

 Can't be fatalized. Also triggers very inconsistently, so we just disable it.

 Depending on the version of strictures requested, different warnings will be enabled. If no specific version is requested, the current version's behavior will be used. Versions can be requested using Perl's standard mechanism:

 ```perl
 use strictures 2;
 ```

 Or, by passing in a `version` option:

 ```perl
 use strictures version => 2;
 ```

 Equivalent to:

 ```perl
 use strict;
 use warnings FATAL => 'all';
 use warnings NONFATAL => qw( exec recursion internal malloc newline experimental deprecated portable );
 no warnings 'once';

 # and if in dev mode:
 ```
no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

Additionally, any warnings created by modules using L<warnings::register> or
C<warnings::register_categories()> will not be fatalized.

=head2 VERSION 1

Equivalent to:

use strict;
use warnings FATAL => 'all';
# and if in dev mode:
no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

=head1 METHODS

=head2 import

This method does the setup work described above in L</DESCRIPTION>. Optionally
accepts a C<version> option to request a specific version's behavior.

=head2 VERSION

This method traps the C<< strictures->VERSION(1) >> call produced by a use line
with a version number on it and does the version check.

=head1 EXTRA TESTING RATIONALE

Every so often, somebody complains that they're deploying via C<git pull>
and that they don't want L<strictures> to enable itself in this case -- and that
setting C<PERL_STRICTURES_EXTRA> to 0 isn't acceptable (additional ways to
disable extra testing would be welcome but the discussion never seems to get
that far).

In order to allow us to skip a couple of stages and get straight to a
productive conversation, here's my current rationale for turning the
extra testing on via a heuristic:

The extra testing is all stuff that only ever blows up at compile time;
this is intentional. So the oft-raised concern that it's different code being
tested is only sort of the case -- none of the modules involved affect the
final optree to my knowledge, so the author gets some additional compile
time crashes which he/she then fixes, and the rest of the testing is
completely valid for all environments.
The point of the extra testing -- especially `no indirect` -- is to catch mistakes that newbie users won't even realise are mistakes without help. For example,

```perl
foo { ... };
```

where foo is an & prototyped sub that you forgot to import -- this is pernicious to track down since all `seems` fine until it gets called and you get a crash. Worse still, you can fail to have imported it due to a circular require, at which point you have a load order dependent bug which I've seen before now I show up in production due to tiny differences between the production and the development environment. I wrote [http://shadow.cat/blog/matt-s-trout/indirect-but-still-fatal/](http://shadow.cat/blog/matt-s-trout/indirect-but-still-fatal/) to explain this particular problem before `strictures` itself existed.

As such, in my experience so far `strictures` extra testing has avoided production versus development differences, not caused them.

Additionally, `strictures` policy is very much "try and provide as much protection as possible for newbies -- who won't think about whether there's an option to turn on or not" -- so having only the environment variable is not sufficient to achieve that (I get to explain that you need to add `use strict` at least once a week on freenode #perl -- newbies sometimes completely skip steps because they don't understand that that step is important).

I make no claims that the heuristic is perfect -- it's already been evolved significantly over time, especially for 1.004 where we changed things to ensure it only fires on files in your checkout (rather than `strictures`-using modules you happened to have installed, which was just silly). However, I hope the above clarifies why a heuristic approach is not only necessary but desirable from a point of view of providing new users with as much safety as possible, and will allow any future discussion on the subject to focus on "how do we minimise annoyance to people deploying from checkouts intentionally".

=head1 SEE ALSO

=over 4

=item *

`indirect`

=item *

`multidimensional`
COMMUNITY AND SUPPORT

IRC channel
irc.perl.org #toolchain
(or bug 'mst' in query on there or freenode)

Git repository
Gitweb is on http://git.shadowcat.co.uk/ and the clone URL is:
git clone git://git.shadowcat.co.uk/p5sagit/strictures.git
The web interface to the repository is at:
http://git.shadowcat.co.uk/gitweb/gitweb.cgi?p=p5sagit/strictures.git

AUTHOR

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CONTRIBUTORS

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as perl itself.
NAME
strictures - turn on strict and make most warnings fatal

SYNOPSIS
use strictures 2;

is equivalent to

use strict;
use warnings FATAL => 'all';
use warnings NONFATAL => qw(
  exec
  recursion
  internal
  malloc
  newline
  experimental
  deprecated
  portable
);
no warnings 'once';

except when called from a file which matches:

(caller)[1] =~ /^(?<=[xt][lib][blib])\/[\\v]/

and when either ".git", ".svn", ".hg", or ".bzr" is present in the
current directory (with the intention of only forcing extra tests on the
author side) -- or when ".git", ".svn", ".hg", or ".bzr" is present two
directories up along with "dist.ini" (which would indicate we are in a
"dzil test" operation, via Dist::Zilla) -- or when the
"PERL_STRICTURES_EXTRA" environment variable is set, in which case it
also does the equivalent of

no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

Note that "PERL_STRICTURES_EXTRA" may at some point add even more tests,
with only a minor version increase, but any changes to the effect of
"use strictures" in normal mode will involve a major version bump.

If any of the extra testing modules are not present, strictures will
complain loudly, once, via "warn()", and then shut up. But you really should consider installing them, they're all great anti-footgun tools.

DESCRIPTION
I've been writing the equivalent of this module at the top of my code for about a year now. I figured it was time to make it shorter.

Things like the importer in "use Moose" don't help me because they turn warnings on but don't make them fatal -- which from my point of view is useless because I want an exception to tell me my code isn't warnings-clean.

Any time I see a warning from my code, that indicates a mistake.

Any time my code encounters a mistake, I want a crash -- not spew to STDERR and then unknown (and probably undesired) subsequent behaviour.

I also want to ensure that obvious coding mistakes, like indirect object syntax (and not so obvious mistakes that cause things to accidentally compile as such) get caught, but not at the cost of an XS dependency and not at the cost of blowing things up on another machine.

Therefore, strictures turns on additional checking, but only when it thinks it's running in a test file in a VCS checkout -- although if this causes undesired behaviour this can be overridden by setting the "PERL_STRICTURES_EXTRA" environment variable.

If additional useful author side checks come to mind, I'll add them to the "PERL_STRICTURES_EXTRA" code path only -- this will result in a minor version increase (e.g. 1.000000 to 1.001000 (1.1.0) or similar). Any fixes only to the mechanism of this code will result in a sub-version increase (e.g. 1.000000 to 1.000001 (1.0.1)).

CATEGORY SELECTIONS
strictures does not enable fatal warnings for all categories.

exec
Includes a warning that can cause your program to continue running unintentionally after an internal fork. Not safe to fatalize.

recursion
Infinite recursion will end up overflowing the stack eventually anyway.

internal
Triggers deep within perl, in places that are not safe to trap.

malloc
Triggers deep within perl, in places that are not safe to trap.

Includes a warning for using stat on a valid but suspect filename, ending in a newline.

Experimental
  Experimental features are used intentionally.

deprecated
  Deprecations will inherently be added to in the future in unexpected ways, so making them fatal won't be reliable.

portable
  Doesn't indicate an actual problem with the program, only that it may not behave properly if run on a different machine.

once
  Can't be fatalized. Also triggers very inconsistently, so we just disable it.

VERSIONS
  Depending on the version of strictures requested, different warnings will be enabled. If no specific version is requested, the current version's behavior will be used. Versions can be requested using perl's standard mechanism:

  use strictures 2;

  Or, by passing in a "version" option:

  use strictures version => 2;

VERSION 2
  Equivalent to:

  use strict;
  use warnings FATAL => 'all';
  use warnings NONFATAL => qw(
    exec
    recursion
    internal
    malloc
    newline
    experimental
    deprecated
    portable
  );
no warnings 'once';

# and if in dev mode:
no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

Additionally, any warnings created by modules using warnings::register
or "warnings::register_categories()" will not be fatalized.

VERSION 1
Equivalent to:

use strict;
use warnings FATAL => 'all';
# and if in dev mode:
no indirect 'fatal';
no multidimensional;
no bareword::filehandles;

METHODS
import
This method does the setup work described above in "DESCRIPTION". Optionally accepts a "version" option to request a specific version's behavior.

VERSION
This method traps the "strictures-&gt;VERSION(1)" call produced by a use line with a version number on it and does the version check.

EXTRA TESTING RATIONALE
Every so often, somebody complains that they're deploying via "git pull" and that they don't want strictures to enable itself in this case -- and that setting "PERL STRICTURES_EXTRA" to 0 isn't acceptable (additional ways to disable extra testing would be welcome but the discussion never seems to get that far).

In order to allow us to skip a couple of stages and get straight to a productive conversation, here's my current rationale for turning the extra testing on via a heuristic:

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The point of the extra testing -- especially "no indirect" -- is to catch mistakes that newbie users won't even realise are mistakes without help. For example,

    foo { ... };

where foo is an & prototyped sub that you forgot to import -- this is pernicious to track down since all *seems* fine until it gets called and you get a crash. Worse still, you can fail to have imported it due to a circular require, at which point you have a load order dependent bug which I've seen before now *only* show up in production due to tiny differences between the production and the development environment. I wrote <http://shadow.cat/blog/matt-s-trout/indirect-but-still-fatal/> to explain this particular problem before strictures itself existed.

As such, in my experience so far strictures' extra testing has *avoided* production versus development differences, not caused them.

Additionally, strictures' policy is very much "try and provide as much protection as possible for newbies -- who won't think about whether there's an option to turn on or not" -- so having only the environment variable is not sufficient to achieve that (I get to explain that you need to add "use strict" at least once a week on freenode #perl -- newbies sometimes completely skip steps because they don't understand that that step is important).

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SEE ALSO
* indirect
  * multidimensional
  * bareword::filehandles

COMMUNITY AND SUPPORT
IRC channel
irc.perl.org #toolchain

(or bug 'mst' in query on there or freenode)
Git repository
  Gitweb is on http://git.shadowcat.co.uk/ and the clone URL is:

  git clone git://git.shadowcat.co.uk/p5sagit/strictures.git

The web interface to the repository is at:

  http://git.shadowcat.co.uk/gitweb/gitweb.cgi?p=p5sagit/strictures.git

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  Mithaldu - Christian Walde (cpan:MITHALDU) <walde.christian@gmail.com>
  haarg - Graham Knop (cpan:HAARG) <haarg@haarg.org>

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Found in path(s):
  * /opt/cola/permits/1144946332_1633499397.43/0/libstrictures-perl-2-000002-orig-1-tar-gz/strictures-
  2.000002/README
  No license file was found, but licenses were detected in source scan.

---
abstract: 'turn on strict and make most warnings fatal'
author:
  - 'mst - Matt S. Trout (cpan:MSTROUT) <mst@shadowcat.co.uk>,'
buidl_requires:
  Test::More: '0'
configure_requires: {}
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: strictures
no_index:
directory:
  - t
  - xt
recommends:
bareword::filehandles: '0'
indirect: '0'
multidimensional: '0'
requires:
perl: '5.006'
resources:
bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=strictures
license: http://dev.perl.org/licenses/
repository: git://git.shadowcat.co.uk/p5sagit/strictures.git
version: '2.000002'

Found in path(s):
* /opt/cola/permits/1144946332_1633499397.43/0/libstrictures-perl-2-000002-orig-1-tar-gz/strictures-2.000002/META.yml

1.38 ncurses 6.0+20160213-1ubuntu1
1.38.1 Available under license :
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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Files: aclocal.m4 package
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Upstream source http://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: doc/html/NCURSES-Programming-HOWTO.html
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $

1.39 kerby-asn1 1.0.1

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 */

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 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
* { @link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*<h3>2 bytes length field at offset 0, do not strip header</h3>
*The value of the length field in this example is <tt>12 (0x0C)</tt> which
*represents the length of "HELLO, WORLD". By default, the decoder assumes
*that the length field represents the number of the bytes that follows the
*length field. Therefore, it can be decoded with the simplistic parameter
*combination.
*<h3>2 bytes length field at offset 0, strip header</h3>
*Because we can get the length of the content by calling
*{@link ByteBuf#readableBytes()}, you might want to strip the length
*field by specifying <tt>initialBytesToStrip</tt>. In this example, we
*specified <tt>2</tt>, that is same with the length of the length field, to
*strip the first two bytes.
<h3>2 bytes length field at offset 0, do not strip header, the length field
*represents the length of the whole message</h3>
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* `<tt>lengthAdjustment</tt>`.
* Because the length value in this example message
* is always greater than the body length by `<tt>-2</tt>`, we specify `<tt>-2</tt>`
* as `<tt>lengthAdjustment</tt>` for compensation.

```plaintext
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

```plaintext
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.

```plaintext
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
```
* `<b>lengthAdjustment</b> = 2` (= the length of Header 1)
* `initialBytesToStrip = 0`

* **BEFORE DECODE (17 bytes)**                                     **AFTER DECODE (17 bytes)**
  * +--------------------------------+------------------+
  * | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
  * | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
  * +--------------------------------+------------------+

* **</pre>**

* `<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>`

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

* `<pre>`
  * `lengthFieldOffset = 1` (= the length of HDR1)
  * `lengthFieldLength = 2`
  * `<b>lengthAdjustment</b> = <b>1</b>` (= the length of HDR2)
  * `<b>initialBytesToStrip</b> = <b>3</b>` (= the length of HDR1 + LEN)

* **BEFORE DECODE (16 bytes)**                                     **AFTER DECODE (13 bytes)**
  * +------+------+--------+------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +------+------+--------+------------------+

* **</pre>**

* `<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message</h3>`

* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

* `<pre>`
  * `lengthFieldOffset = 1`
  * `lengthFieldLength = 2`
  * `<b>lengthAdjustment</b> = <b>-3</b>` (= the length of HDR1 + LEN, negative)
  * `<b>initialBytesToStrip</b> = <b>3</b>`
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------------------+ +-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+ +-----------------------------+
* </pre>
* @see LengthFieldPrepender
*/

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org.eclipse.jetty.toolchain:jetty-schemas

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 *
*/

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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The class org.apache.lucene.util.WeakIdentityMap was derived from
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The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
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The full snowball package is available from
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The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
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and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801

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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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1.47 commons-net 3.3

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1.48 jackson-annotations 2.4.0

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1.49 webencodings 0.5.1

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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", 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',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    long_description=LONG_DESCRIPTION,
    long_description_content_type='text/x-rst',
    classifiers=['Development Status :: 5 - Production/Stable',
                 'Intended Audience :: Developers',
                 'License :: OSI Approved :: BSD License',
                 'Programming Language :: Python :: 2',
                 'Programming Language :: Python :: 2.7',
                 'Programming Language :: Python :: 3',
                 'Programming Language :: Python :: 3.5']
)
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.

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    # 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(
            '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
            for label, name in labels)
        parts.append(}')
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.tar.gz/webencodings-0.5.1/webencodings/mklabels.py

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

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
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
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 :: 3.3
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 :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
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
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* Python 2.6+ and 3.3+

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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,
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---

1.50 httpcomponents-mime 4.5.12

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1.55 ganymed-ssh2 262

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1.56 libdata-serializer-perl 0.60-2

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=head1 NAME
Data::Serializer::YAML::Syck - Creates bridge between Data::Serializer and YAML::Syck

=head1 SYNOPSIS
use Data::Serializer::YAML::Syck;

=head1 DESCRIPTION
Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR
Naoya Ito <naoya@bloghackers.net>

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=head1 SEE ALSO
perl(1), Data::Serializer(3), YAML::Syck(3).

=cut

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=head1 NAME

Data::Serializer::PHP::Serialization - Creates bridge between Data::Serializer and PHP::Serialization

=head1 SYNOPSIS

use Data::Serializer::PHP::Serialization;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Neil Neely <neil@neely.cx>

=head1 COPYRIGHT

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=head1 SEE ALSO

perl(1), Data::Serializer(3), PHP::Serialization(3).

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* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/PHP/Serialization.pm
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=head1 NAME
Data::Serializer::Config::General - Creates bridge between Data::Serializer and Config::General

=head1 SYNOPSIS

use Data::Serializer::Config::General;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=head1 METHODS

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=item B<options> - Pass options through to underlying serializer

=back

=head1 CAVEAT

Base data structure to serialize must be a hash reference

=head1 AUTHOR

Thomas Linden <tom@daemon.de>

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=head1 SEE ALSO

perl(1), Data::Serializer(3), Config::General(3)

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#

=head1 NAME

Data::Serializer::XML::Simple - Creates bridge between Data::Serializer and XML::Simple

=head1 SYNOPSIS

use Data::Serializer::XML::Simple;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

Any options are passed through to XML::Simple. See XML::Simple(3) for details.

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Neil Neely <neil@neely.cx>

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=head1 SEE ALSO

perl(1), Data::Serializer(3), XML::Simple(3).

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NAME
Cookbook - Examples of how to use Data::Serializer

DESCRIPTION
Data::Serializer::Cookbook is a collection of solutions for using Data::Serializer.

CONVENTIONS
Unless otherwise specified, all examples can be assumed to begin with:

use Data::Serializer;

my $serializer = Data::Serializer->new();

Some examples will show different arguments to the new method, where specified simply use that line instead of the simple form above.

CONVENTIONS for Raw Access
For those who want a straight pass through to the underlying serializer, where nothing else is done (no encoding, encryption, compression, etc) there is Data::Serializer::Raw(3).

These begin like this:

use Data::Serializer::Raw;

my $raw_serializer = Data::Serializer::Raw->new();

Encrypting your data
You wish to encrypt your data structure, so that it can only be decoded by someone who shares the same key.

Solution
$serializer->secret('mysecret');

my $encrypted_hashref = $serializer->serializer($hash);

... (in other program) ...

$serializer->secret('mysecret');

my $clear_hash = $serializer->deserializer($encrypted_hash);

Note: You will have to have the Crypt::CBC module installed for this to work.

Compressing your data
You wish to compress your data structure to cut down on how much disk space it will take up.
Solution

$serializer->compress(1);

my $compressed_hashref = $serializer->serializer($hash);

... (in other program) ...

my $clear_hash = $serializer->deserializer($compressed_hash);

Note: You will have to have the Compress::Zlib module installed for this to work. Your mileage will vary dramatically depending on what serializer you use. Some serializers are already fairly compact.

You want to read in data serialized outside of Data::Serializer
You need to write a program that can read in data serialized in a format other than Data::Serializer. For example you need to be able to be able to process data serialized by XML::Dumper.

Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');

my $hash_ref = $xml_raw_serializer->deserialize($xml_data);

You want to write serialized data in a form understood outside of Data::Serializer
You need to write a program that can write out data in a format other than Data::Serializer. Or said more generically you need to write out data in the format native to the underlying serializer. For our example we will be exporting data using XML::Dumper format.

Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');

my $xml_data = $xml_raw_serializer->serialize($hash_ref);

You want to convert data between two different serializers native formats
You have data serialized by php that you want to convert to xml for use by other programs.

Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');
my $php_raw_serializer = Data::Serializer::Raw->(serializer => 'PHP::Serialization');

my $hash_ref = $php_raw_serializer->deserialize($php_data);

my $xml_data = $xml_raw_serializer->serialize($hash_ref);

Keeping data persistent between executions of a program.
You have a program that you run every 10 minutes, it uses SNMP to pull some counters from one of your routers. You want your program to keep the counters from the last run so that it can see how much traffic has passed over a link since it last ran.

Solution
# path to store our serialized data
# be paranoid, use full paths
my $last_run_datafile = '/full/path/to/file/lastrun.data';

#We keep our data as a hash reference
my $last_data = $serializer->retrieve($last_run_datafile);

#Pull in our new data through 'pull_data()';
my $new_data = query_router($router);

#run comparison code
run_comparison($last_data,$new_data);

$serializer->store($new_data);

AUTHOR
Neil Neely <neil@neely.cx>.

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SEE ALSO
Data::Serializer(3)
Data::Serializer::Raw(3)

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/lidata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/examples/README
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=pod
NAME

Data::Serializer::Persistent - Provide means of persistently storing serialized data in a file

SYNOPSIS

use Data::Serializer::Persistent

DESCRIPTION

Used internally to L<Data::Serializer(3)>, does not currently have any public methods

EXAMPLES

over 4

item Please see L<Data::Serializer::Cookbook(3)>

METHODOFF

AUTHOR

Neil Neely <F<neil@neely.cx>>.

http://neil-neely.blogspot.com/

BUGS

Please report all bugs here:

http://rt.cpan.org/Public/Dist/Display.html?Name=Data-Serializer

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See http://www.perl.com/language/misc/Artistic.html

SEE ALSO
perl(1), Data::Serializer(3), IO::File(3).

=cut

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* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/Persistent.pm
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#

=head1 NAME

Data::Serializer::Storable - Creates bridge between Data::Serializer and Storable

=head1 SYNOPSIS

use Data::Serializer::Storable;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

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=head1 SEE ALSO

perl(1), Data::Serializer(3), Data::Dumper(3).

=cut
Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/Storable.pm
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#Documentation follows

=pod

=head1 NAME

Data::Serializer:: - Modules that serialize data structures

=head1 SYNOPSIS

use Data::Serializer;

$obj = Data::Serializer->new();

$obj = Data::Serializer->new(
    serializer => 'Storable',
    digester  => 'MD5',
    cipher    => 'DES',
    secret    => 'my secret',
    compress  => 1,
);

$serialized = $obj->serialize({a => [1,2,3],b => 5});
$deserialized = $obj->deserialize($serialized);
print "$deserialized->{b}
";

=head1 DESCRIPTION

Provides a unified interface to the various serializing modules currently available. Adds the functionality of both compression and encryption.

By default L<Data::Serializer(3)> adds minor metadata and encodes serialized data structures in it's own format. If you are looking for a simple unified pass through interface to the underlying serializers then look into L<Data::Serializer::Raw(3)> that comes bundled with L<Data::Serializer(3)>.

=head1 EXAMPLES

=over 4

=item Please see L<Data::Serializer::Cookbook(3)>

=over 4
=back

=head1 METHODS

=over 4

=item B<new> - constructor

$obj = Data::Serializer->new();

$obj = Data::Serializer->new(
    serializer => 'Data::Dumper',
    digester => 'SHA-256',
    cipher => 'Blowfish',
    secret => undef,
    portable => '1',
    compress => '0',
    serializer_token => '1',
    options => {},
);

B<new> is the constructor object for L<Data::Serializer> objects.

=over 4

=item

The default I<serializer> is C<Data::Dumper>

=item

The default I<digester> is C<SHA-256>

=item

The default I<cipher> is C<Blowfish>

=item

The default I<secret> is C<undef>

=item

The default I<portable> is C<1>
The default \texttt{encoding} is \texttt{hex}.

The default \texttt{compress} is \texttt{0}.

The default \texttt{compressor} is \texttt{Compress::Zlib}.

The default \texttt{serializer_token} is \texttt{1}.

The default \texttt{options} is \texttt{[]} (pass nothing on to serializer).

\textbf{serialize} - serialize reference

\begin{verbatim}
$serialized = $obj->serialize({a => [1,2,3],b => 5});
\end{verbatim}

Serializes the reference specified.

Will compress if \texttt{compress} is a true value.

Will encrypt if \texttt{secret} is defined.

\textbf{deserialize} - deserialize reference

\begin{verbatim}
$deserialized = $obj->deserialize($serialized);
\end{verbatim}

Reverses the process of serialization and returns a copy of the original serialized reference.

\textbf{freeze} - synonym for serialize

\begin{verbatim}
$serialized = $obj->freeze({a => [1,2,3],b => 5});
\end{verbatim}

\textbf{thaw} - synonym for deserialize

\begin{verbatim}
$deserialized = $obj->thaw($serialized);
\end{verbatim}

\textbf{raw_serialize} - serialize reference in raw form
$serialized = $obj->raw_serialize(['a' => [1,2,3], 'b' => 5]);

This is a straight pass through to the underlying serializer, nothing else is done. (no encoding, encryption, compression, etc)

If you desire this functionality you should look at L<Data::Serializer::Raw(3)> instead, it is faster and leaner.

=item B<raw_deserialize> - deserialize reference in raw form

$deserialized = $obj->raw_deserialize($serialized);

This is a straight pass through to the underlying serializer, nothing else is done. (no encoding, encryption, compression, etc)

If you desire this functionality you should look at L<Data::Serializer::Raw(3)> instead, it is faster and leaner.

=item B<secret> - specify secret for use with encryption

$obj->secret('mysecret');

Changes setting of secret for the L<Data::Serializer(3)> object. Can also be set in the constructor. If specified than the object will utilize encryption.

=item B<portable> - encodes/decodes serialized data

Uses B<encoding> method to ascii armor serialized data

Aids in the portability of serialized data.

=item B<compress> - compression of data

Compresses serialized data. Default is not to use it. Will compress if set to a true value

$obj->compress(1);

=item B<raw> - all calls to serializer and deserializer will automatically use raw mode

Setting this to a true value will force serializer and deserializer to work in raw mode (see raw_serializer and raw_deserializer). The default is for this to be off.

If you desire this functionality you should look at L<Data::Serializer::Raw(3)> instead, it is faster and leaner.

=item B<serializer> - change the serializer

Currently supports the following serializers:
=over 4

=item L<Bencode(3)>

=item L<Convert::Bencode(3)>

=item L<Convert::Bencode_XS(3)>

=item L<Config::General(3)>

=item L<Data::Denter(3)>

=item L<Data::Dumper(3)>

=item L<Data::Taxi(3)>

=item L<FreezeThaw(3)>

=item L<JSON(3)>

=item L<JSON::Syck(3)>

=item L<PHP::Serialization(3)>

=item L<Storable(3)>

=item L<XML::Dumper(3)>

=item L<XML::Simple(3)>

=item L<YAML(3)>

=item L<YAML::Syck(3)>

=back

Default is to use Data::Dumper.

Each serializer has its own caveat's about usage especially when dealing with cyclical data structures or CODE references. Please see the appropriate documentation in those modules for further information.

=item B<cipher> - change the cipher method

Utilizes L<Crypt::CBC(3)> and can support any cipher method that it supports.
=item B<digester> - change digesting method

Uses L<Digest(3)> so can support any digesting method that it supports. Digesting function is used internally by the encryption routine as part of data verification.

=item B<compressor> - changes compressing module

Currently L<Compress::Zlib(3)> and L<Compress::PPMd(3)> are the only options

=item B<encoding> - change encoding method

Encodes data structure in ascii friendly manner. Currently the only valid options are hex, or b64.

The b64 option uses Base64 encoding provided by L<MIME::Base64(3)>, but strips out newlines.

=item B<serializer_token> - add usage hint to data

L<Data::Serializer(3)> prepends a token that identifies what was used to process its data. This is used internally to allow runtime determination of how to extract serialized data. Disabling this feature is not recommended. (Use L<Data::Serializer::Raw(3)> instead).

=item B<options> - pass options through to underlying serializer

Currently is only supported by L<Config::General(3)>, and L<XML::Dumper(3)>.

my $obj = Data::Serializer->new(serializer => 'Config::General',
   options => {
      -LowerCaseNames   => 1,
      -UseApacheInclude => 1,
      -MergeDuplicateBlocks => 1,
      -AutoTrue         => 1,
      -InterPolateVars  => 1
   },
   ) or die "$!n";

or

my $obj = Data::Serializer->new(serializer => 'XML::Dumper',
   options => { dtd => 1, }
 ) or die "$!n";

=item B<store> - serialize data and write it to a file (or file handle)

$obj->store({a => [1,2,3],b => 5},$file, [$mode,$perm]);

or
Serializes the reference specified using the B<serialize> method and writes it out to the specified file or filehandle.

If a file path is specified you may specify an optional mode and permission as the next two arguments. See L<IO::File> for examples.

Trips an exception if it is unable to write to the specified file.

=item B<retrieve> - read data from file (or file handle) and return it after deserialization

my $ref = $obj->retrieve($file);

or

my $ref = $obj->retrieve($fh);

Reads first line of supplied file or filehandle and returns it deserialized.

=head1 AUTHOR

Neil Neely <F<neil@neely.cx>>.

Feature requests are certainly welcome.

http://neil-neely.blogspot.com/

=head1 BUGS

Please report all bugs here:

http://rt.cpan.org/Public/Dist/Display.html?Name=Data-Serializer

=head1 TODO

Extend the persistent framework. Perhaps L<Persistent::Base(3)> framework would be useful to explore further. Volunteers for putting this together would be welcome.

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=head1 ACKNOWLEDGEMENTS

Gurusamy Sarathy and Raphael Manfredi for writing L<MLDBM(3)>, the module which inspired the creation of L<Data::Serializer(3)>

And thanks to all of you who have provided the feedback that has improved this module over the years.

In particular I'd like to thank Florian Helmberger, for the numerous suggestions and bug fixes.

=head1 DEDICATION

This module is dedicated to my beautiful wife Erica.

=head1 SEE ALSO

=over 4

=item L<Bencode(3)>

=item L<Convert::Bencode(3)>

=item L<Convert::Bencode_XS(3)>

=item L<Config::General(3)>

=item L<Data::Denter(3)>

=item L<Data::Dumper(3)>

=item L<Data::Taxi(3)>

=item L<FreezeThaw(3)>

=item L<JSON(3)>

=item L<JSON::Syck(3)>

=item L<PHP::Serialization(3)>
=item L<Storable(3)>

=item L<XML::Dumper(3)>

=item L<XML::Simple(3)>

=item L<YAML(3)>

=item L<YAML::Syck(3)>

=item L<Compress::Zlib(3)>

=item L<Compress::PPMd(3)>

=item L<Digest(3)>

=item L<Digest::SHA(3)>

=item L<Crypt::CBC(3)>

=item L<MIME::Base64(3)>

=item L<IO::File(3)>

=item L<Data::Serializer::Config::Wrest(3)> - adds supports for L<Config::Wrest(3)>

=back
=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer.pm

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

=head1 NAME

Data::Serializer::Convert::Bencode - Creates bridge between Data::Serializer and Convert::Bencode

=head1 SYNOPSIS

use Data::Serializer::Convert::Bencode;

=head1 DESCRIPTION

Module is used internally to Data::Serializer
=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Neil Neely <F<neil@neely.cx>>.

http://neil-neely.blogspot.com/

=head1 BUGS

Please report all bugs here:

http://rt.cpan.org/Public/Dist/Display.html?Name=Data-Seraizer

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=head1 SEE ALSO

perl(1), Data::Serializer(3), Convert::Bencode(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Seraizer-0.60/lib/Data/Serializer/ConverBencode.pm

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#

=head1 NAME

Data::Serializer::YAML - Creates bridge between Data::Serializer and YAML

=head1 SYNOPSIS
use Data::Serializer::YAML;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Florian Helmberger <fh@laudatio.com>

=head1 COPYRIGHT

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=head1 SEE ALSO

perl(1), Data::Serializer(3), YAML(3).

=cut

Found in path(s):
  * /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/YAML.pm
No license file was found, but licenses were detected in source scan.

#

=head1 NAME

Data::Serializer::XML::Dumper - Creates bridge between Data::Serializer and XML::Dumper

=head1 SYNOPSIS

use Data::Serializer::XML::Dumper;

=head1 DESCRIPTION
Module is used internally to Data::Serializer

The only option currently supported is B<dtd>. This just calls the dtd method of XML::Dumper prior to serializing the data. See XML::Dumper(3) for details.

=item B<serialize> - Wrapper to normalize serializer method name
=item B<deserialize> - Wrapper to normalize deserializer method name

=head1 AUTHOR

Neil Neely <neil@neely.cx>

=head1 COPYRIGHT

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=head1 SEE ALSO

perl(1), Data::Serializer(3), XML::Dumper(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/XML/Dumper.pm
No license file was found, but licenses were detected in source scan.

#

=head1 NAME

Data::Serializer::Data::Dumper - Creates bridge between Data::Serializer and Data::Dumper

=head1 SYNOPSIS

use Data::Serializer::Data::Dumper;

=head1 DESCRIPTION
Module is used internally to Data::Serializer

=head1 METHODS

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialze> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Neil Neely <neil@neely.cx>

=head1 COPYRIGHT

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=head1 SEE ALSO

perl(1), Data::Serializer(3), Data::Dumper(3).

cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1.tar.gz/Data-Serializer-0.60/lib/Data/Serializer/Data/Dumper.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Serializer::Convert::Bencode_XS - Creates bridge between Data::Serializer and Convert::Bencode_XS

=head1 SYNOPSIS

use Data::Serializer::Convert::Bencode_XS;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4
=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=head1 AUTHOR

Neil Neely <F<neil@neely.cx>>.

http://neil-neely.blogspot.com/

=head1 BUGS

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=head1 SEE ALSO

perl(1), Data::Serializer(3), Convert::Bencode_XS(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/Convert/Bencode_XS.pm
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#

=head1 NAME

Data::Serializer::FreezeThaw - Creates bridge between Data::Serializer and FreezeThaw

=head1 SYNOPSIS

use Data::Serializer::FreezeThaw;
=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Neil Neely <neil@neely.cx>

=head1 COPYRIGHT

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=head1 SEE ALSO

perl(1), Data::Serializer(3), FreezeThaw(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/FreezeThaw.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Serializer::JSON::Syck - Creates bridge between Data::Serializer and JSON::Syck

=head1 SYNOPSIS

use Data::Serializer::JSON::Syck;

=head1 DESCRIPTION

Module is used internally to Data::Serializer
=head1 NAME

Data::Serializer::Raw - Provides unified raw interface to perl serializers

=head1 SYNOPSIS

use Data::Serializer::Raw;

$obj = Data::Serializer::Raw->new();

$obj = Data::Serializer::Raw->new(serializer => 'Storable');

$serialized = $obj->serialize({a => [1,2,3],b => 5});
$deserialized = $obj->deserialize($serialized);

print "$deserialized->{b}\n";

=head1 DESCRIPTION
Provides a unified interface to the various serializing modules currently available.

This is a straight pass through to the underlying serializer, nothing else is done. (no encoding, encryption, compression, etc)

=head1 EXAMPLES

=item Please see L<Data::Serializer::Cookbook(3)>

=head1 METHODS

=item B<new> - constructor

$obj = Data::Serializer::Raw->new();

$obj = Data::Serializer::Raw->new(
    serializer => 'Data::Dumper',
    options => {},
);

B<new> is the constructor object for Data::Serializer::Raw objects.

=item The default I<serializer> is C<Data::Dumper>

=item The default I<options> is C<[]> (pass nothing on to serializer)

=item B<serialize> - serialize reference

$serialized = $obj->serialize({'a' => [1,2,3], 'b' => 5});
This is a straight pass through to the underlying serializer, nothing else is done. (no encoding, encryption, compression, etc)

=item B<deserialize> - deserialize reference

$deserialized = $obj->deserialize($serialized);

This is a straight pass through to the underlying serializer, nothing else is done. (no encoding, encryption, compression, etc)

=item B<serializer> - change the serializer

Currently supports the following serializers:

=over 4

=item L<Bencode(3)>

=item L<Convert::Bencode(3)>

=item L<Convert::Bencode_XS(3)>

=item L<Config::General(3)>

=item L<Data::Denter(3)>

=item L<Data::Dumper(3)>

=item L<Data::Taxi(3)>

=item L<FreezeThaw(3)>

=item L<JSON(3)>

=item L<JSON::Syck(3)>

=item L<PHP::Serialization(3)>

=item L<Storable(3)>

=item L<XML::Dumper(3)>

=item L<XML::Simple(3)>

=item L<YAML(3)>

=item L<YAML::Syck(3)>
Default is to use Data::Dumper.

Each serializer has its own caveat's about usage especially when dealing with cyclical data structures or CODE references. Please see the appropriate documentation in those modules for further information.

=item B<options> - pass options through to underlying serializer

Currently is only supported by L<Config::General(3)>, and L<XML::Dumper(3)>.

my $obj = Data::Serializer::Raw->new(serializer => 'Config::General',
    options    => {
        -LowerCaseNames => 1,
        -UseApacheInclude => 1,
        -MergeDuplicateBlocks => 1,
        -AutoTrue => 1,
        -InterPolateVars => 1
    },
    ) or die "$!
; or

my $obj = Data::Serializer::Raw->new(serializer => 'XML::Dumper',
    options    => { dtd => 1, }
    ) or die "$!
; or

=item B<store> - serialize data and write it to a file (or file handle)

$obj->store({a => [1,2,3],b => 5},$file, [$mode, $perm]);

or

$obj->store({a => [1,2,3],b => 5},$fh);  

Serializes the reference specified using the B<serialize> method and writes it out to the specified file or filehandle.

If a file path is specified you may specify an optional mode and permission as the next two arguments. See L<IO::File> for examples.

Trips an exception if it is unable to write to the specified file.

=item B<retrieve> - read data from file (or file handle) and return it after deserialization
my $ref = $obj->retrieve($file);

or

my $ref = $obj->retrieve($fh);

Reads first line of supplied file or filehandle and returns it deserialized.

=back

=head1 AUTHOR

Neil Neely <F<neil@neely.cx>>.

http://neil-neely.blogspot.com/

=head1 BUGS

Please report all bugs here:

http://rt.cpan.org/Public/Dist/Display.html?Name=Data-Serializer

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See http://www.perl.com/language/misc/Artistic.html

=head1 ACKNOWLEDGEMENTS

Peter Makholm took the time to profile L<Data::Serializer(3)> and pointed out the value of having a very lean implementation that minimized overhead and just used the raw underlying serializers.

=head1 SEE ALSO

perl(1), Data::Serializer(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-
NAME
Data::Serializer:: - Modules that serialize data structures

SYNOPSIS
use Data::Serializer;

$obj = Data::Serializer->new();

$obj = Data::Serializer->new(
    serializer => 'Storable',
    digester => 'MD5',
    cipher => 'DES',
    secret => 'my secret',
    compress => 1,
);

$serialized = $obj->serialize({a => [1,2,3], b => 5});
$deserialized = $obj->deserialize($serialized);
print "$deserialized->{b}\n";

DESCRIPTION
Provides a unified interface to the various serializing modules currently available. Adds the functionality of both compression and encryption.

By default Data::Serializer adds minor metadata and encodes serialized data structures in its own format. If you are looking for a simple unified pass through interface to the underlying serializers then look into Data::Serializer::Raw that comes bundled with Data::Serializer.

EXAMPLES
Please see Data::Serializer::Cookbook

METHODS
new - constructor
$obj = Data::Serializer->new();

$obj = Data::Serializer->new(
    serializer => 'Data::Dumper',
    digester => 'SHA-256',
    cipher => 'Blowfish',
    secret => undef,
    portable => '1',
    compress => '0',
)
new is the constructor object for Data::Serializer(3) objects.

* The default *serializer* is "Data::Dumper"

* The default *digester* is "SHA-256"

* The default *cipher* is "Blowfish"

* The default *secret* is "undef"

* The default *portable* is 1

* The default *encoding* is "hex"

* The default *compress* is 0

* The default *compressor* is "Compress::Zlib"

* The default *serializer_token* is 1

* The default *options* is "{}" (pass nothing on to serializer)

serialize - serialize reference

$serialized = $obj->serialize({a => [1,2,3],b => 5});

Serializes the reference specified.

Will compress if compress is a true value.

Will encrypt if secret is defined.

deserialize - deserialize reference

$deserialized = $obj->deserialize($serialized);

Reverses the process of serialization and returns a copy of the
original serialized reference.

freeze - synonym for serialize

$serialized = $obj->freeze({a => [1,2,3],b => 5});

thaw - synonym for deserialize

$deserialized = $obj->thaw($serialized);

raw_serialize - serialize reference in raw form
$serialized = $obj->raw_serialize({a => [1,2,3],b => 5});

This is a straight pass through to the underlying serializer,
nothing else is done. (no encoding, encryption, compression, etc)

If you desire this functionality you should look at
Data::Serializer::Raw(3) instead, it is faster and leaner.

raw_deserialize - deserialize reference in raw form
$deserialized = $obj->raw_deserialize($serialized);

This is a straight pass through to the underlying serializer,
nothing else is done. (no encoding, encryption, compression, etc)

If you desire this functionality you should look at
Data::Serializer::Raw(3) instead, it is faster and leaner.

secret - specify secret for use with encryption
$obj->secret('mysecret');

Changes setting of secret for the Data::Serializer(3) object. Can
also be set in the constructor. If specified than the object will
utilize encryption.

portable - encodes/decodes serialized data
Uses encoding method to ascii armor serialized data

Aids in the portability of serialized data.

compress - compression of data
Compresses serialized data. Default is not to use it. Will compress
if set to a true value $obj->compress(1);

raw - all calls to serializer and deserializer will automatically use
raw mode
Setting this to a true value will force serializer and deserializer
to work in raw mode (see raw_serializer and raw_deserializer). The
default is for this to be off.

If you desire this functionality you should look at
Data::Serializer::Raw(3) instead, it is faster and leaner.

serializer - change the serializer
Currently supports the following serializers:

Bencode(3)
Convert::Bencode(3)
Convert::Bencode_XS(3)
Default is to use Data::Dumper.

Each serializer has its own caveats about usage especially when dealing with cyclical data structures or CODE references. Please see the appropriate documentation in those modules for further information.

cipher - change the cipher method
  Utilizes Crypt::CBC(3) and can support any cipher method that it supports.

digester - change digesting method
  Uses Digest(3) so can support any digesting method that it supports. Digesting function is used internally by the encryption routine as part of data verification.

compressor - changes compressing module
  Currently Compress::Zlib(3) and Compress::PPMd(3) are the only options

encoding - change encoding method
  Encodes data structure in ascii friendly manner. Currently the only valid options are hex, or b64.

  The b64 option uses Base64 encoding provided by MIME::Base64(3), but strips out newlines.

serializer_token - add usage hint to data
  Data::Serializer(3) prepends a token that identifies what was used to process its data. This is used internally to allow runtime determination of how to extract serialized data. Disabling this feature is not recommended. (Use Data::Serializer::Raw(3) instead).

options - pass options through to underlying serializer
Currently is only supported by Config::General(3), and XML::Dumper(3).

    my $obj = Data::Serializer->new(serializer => 'Config::General',
        options => {
            -LowerCaseNames => 1,
            -UseApacheInclude => 1,
            -MergeDuplicateBlocks => 1,
            -AutoTrue => 1,
            -InterPolateVars => 1
        },
    ) or die "$!
    ;

or

    my $obj = Data::Serializer->new(serializer => 'XML::Dumper',
        options => { dtd => 1, },
    ) or die "$!
    ;

store - serialize data and write it to a file (or file handle)
    $obj->store({a => [1,2,3],b => 5},$file, [$mode, $perm]);

or

    $obj->store({a => [1,2,3],b => 5},$fh);

Serializes the reference specified using the serialize method and writes it out to the specified file or filehandle.

If a file path is specified you may specify an optional mode and permission as the next two arguments. See IO::File for examples.

Trips an exception if it is unable to write to the specified file.

retrieve - read data from file (or file handle) and return it after deserialization
    my $ref = $obj->retrieve($file);

or

    my $ref = $obj->retrieve($fh);

Reads first line of supplied file or filehandle and returns it deserialized.

AUTHOR
    Neil Neely <neil@neely.cx>.
Feature requests are certainly welcome.

http://neil-neely.blogspot.com/

BUGS
Please report all bugs here:

http://rt.cpan.org/Public/Dist/Display.html?Name=Data-Serializer

TODO
Extend the persistent framework. Perhaps Persistent::Base(3) framework would be useful to explore further. Volunteers for putting this together would be welcome.

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See http://www.perl.com/language/misc/Artistic.html

ACKNOWLEDGEMENTS
Gurusamy Sarathy and Raphael Manfredi for writing MLDBM(3), the module which inspired the creation of Data::Serializer(3).

And thanks to all of you who have provided the feedback that has improved this module over the years.

In particular I'd like to thank Florian Helmberger, for the numerous suggestions and bug fixes.

DEDICATION
This module is dedicated to my beautiful wife Erica.

SEE ALSO
Bencode(3)
Convert::Bencode(3)
Convert::Bencode::XS(3)
Config::General(3)
Data::Denter(3)
Data::Dumper(3)
Data::Taxi(3)
FreezeThaw(3)
JSON(3)
JSON::Syck(3)
PHP::Serialization(3)
Storable(3)
XML::Dumper(3)
XML::Simple(3)
YAML(3)
YAML::Syck(3)
Compress::Zlib(3)
Compress::PPMd(3)
Digest(3)
Digest::SHA(3)
Crypt::CBC(3)
MIME::Base64(3)
IO::File(3)
Data::Serializer::Config::Wrest(3) - adds supports for Config::Wrest(3)

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* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/README

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#

=head1 NAME
Data::Serializer::Data::Denter - Creates bridge between Data::Serializer and Data::Denter

=head1 SYNOPSIS
use Data::Serializer::Data::Denter;

=head1 DESCRIPTION
Module is used internally to Data::Serializer

=over 4
=item B<serialize> - Wrapper to normalize serializer method name
=item B<deserialize> - Wrapper to normalize deserializer method name
=back

=head1 AUTHOR
Neil Neely <neil@neely.cx>

=head1 COPYRIGHT
Cookbook - Examples of how to use Data::Serializer

B<Data::Serializer::Cookbook> is a collection of solutions for using B<Data::Serializer>.

Unless otherwise specified, all examples can be assumed to begin with:

use Data::Serializer;

my $serializer = Data::Serializer->new();

Some examples will show different arguments to the B<new> method, where specified simply use that line instead of the simple form above.

For those who want a straight pass through to the underlying serializer, where nothing else is done (no encoding, encryption, compression, etc) there is L<Data::Serializer::Raw>(3).

These begin like this:
use Data::Serializer::Raw;

my $raw_serializer = Data::Serializer::Raw->new;

=head1 Encrypting your data

You wish to encrypt your data structure, so that it can only be decoded by someone who shares the same key.

=head2 Solution

$serializer->secret('mysecret');

my $encrypted_hashref = $serializer->serializer($hash);

... (in other program) ...

$serializer->secret('mysecret');

my $clear_hash = $serializer->deserializer($encrypted_hash);

Note: You will have to have the Crypt::CBC module installed for this to work.

=head1 Compressing your data

You wish to compress your data structure to cut down on how much disk space it will take up.

=head2 Solution

$serializer->compress(1);

my $compressed_hashref = $serializer->serializer($hash);

... (in other program) ...

my $clear_hash = $serializer->deserializer($compressed_hash);

Note: You will have to have the Compress::Zlib module installed for this to work. Your mileage will vary dramatically depending on what serializer you use. Some serializers are already fairly compact.

=head1 You want to read in data serialized outside of Data::Serializer

You need to write a program that can read in data serialized in a format other than Data::Serializer. For example you need to be able
to be able to process data serialized by XML::Dumper.

=head2 Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');

my $hash_ref = $xml_raw_serializer->deserialize($xml_data);

=head1 You want to write serialized data in a form understood outside of Data::Serializer

You need to write a program that can write out data in a format other than Data::Serializer. Or said more generically you need to write out data in the format native to the underlying serializer. For our example we will be exporting data using XML::Dumper format.

=head2 Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');

my $xml_data = $xml_raw_serializer->serialize($hash_ref);

=head1 You want to convert data between two different serializers native formats

You have data serialized by php that you want to convert to xml for use by other programs.

=head2 Solution

use Data::Serializer::Raw;

my $xml_raw_serializer = Data::Serializer::Raw->(serializer => 'XML::Dumper');

my $php_raw_serializer = Data::Serializer::Raw->(serializer => 'PHP::Serialization');

my $hash_ref = $php_raw_serializer->deserialize($php_data);

my $xml_data = $xml_raw_serializer->serialize($hash_ref);

=head1 Keeping data persistent between executions of a program.

You have a program that you run every 10 minutes, it uses SNMP to pull some counters from one of your routers. You want your program to keep the counters from the last run so that it can see how much traffic has
passed over a link since it last ran.

=head2 Solution

# path to store our serialized data
# be paranoid, use full paths
my $last_run_datafile = '/full/path/to/file/lastrun.data';

# We keep our data as a hash reference
my $last_data = $serializer->retrieve($last_run_datafile);

# Pull in our new data through 'pull_data()';
my $new_data = query_router($router);

# run comparison code
run_comparison($last_data,$new_data);

$serializer->store($new_data);

=head1 AUTHOR

Neil Neely <F<neil@neely.cx>>.

=head1 COPYRIGHT

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=head1 SEE ALSO

=over 4

=item L<Data::Serializer(3)>

=item L<Data::Serializer::Raw(3)>

=back

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/Cookbook.pm

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NAME

Data::Serializer::Bencode - Creates bridge between Data::Serializer and Bencode

SYNOPSIS

use Data::Serializer::Bencode;

DESCRIPTION

Module is used internally to Data::Serializer

over 4

serialize - Wrapper to normalize serializer method name

deserialize - Wrapper to normalize deserializer method name

AUTHOR

Neil Neely <F<neil@neely.cx>>.

http://neil-neely.blogspot.com/

BUGS

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SEE ALSO

perl(1), Data::Serializer(3), Bencode(3).
name: Data-Serializer
version: 0.60
author:
  - "Neil Neely (neil@neely.cx)"
abstract: Modules that serialize data structures
license: perl
build_requires:
  File::Spec: 0
  IO::File: 0
  Test::More: 0
requires:
  AutoLoader: 0
  Data::Dumper: 2.08
  Digest::SHA: 0
  Exporter: 0
  IO::File: 0
recommends:
  Bencode: 0
  Compress::PPMd: 0
  Compress::Zlib: 0
  Config::General: 0
  Convert::Bencode: 0
  Convert::Bencode_XS: 0
  Crypt::Blowfish: 0
  Crypt::CBC: 0
  Data::Denter: 0
  Data::Taxi: 0
  FreezeThaw: 0
  JSON: 0
  JSON::Syck: 0
  JSON::XS: 0
  MIME::Base64: 0
  PHP::Serialization: 0
  Storable: 0
  XML::Dumper: 0
  XML::Simple: 0
  YAML: 0
  YAML::Syck: 0
configure_requires:
  Module::Build: 0.35
generated_by: Module::Build version 0.35
meta-spec:
Data::Serializer::Storable:
  file: lib/Data/Serializer/Storable.pm
  version: 0.03
Data::Serializer::XML::Dumper:
  file: lib/Data/Serializer/XML/Dumper.pm
  version: 0.02
Data::Serializer::XML::Simple:
  file: lib/Data/Serializer/XML/Simple.pm
  version: 0.03
Data::Serializer::YAML:
  file: lib/Data/Serializer/YAML.pm
  version: 0.02
Data::Serializer::YAML::Syck:
  file: lib/Data/Serializer/YAML/Syck.pm
  version: 0.02
resources:
  license: http://dev.perl.org/licenses/

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Serializer::JSON - Creates bridge between Data::Serializer and JSON

=head1 SYNOPSIS

use Data::Serializer::JSON;

=head1 DESCRIPTION

Module is used internally to Data::Serializer

=over 4

=item B<serialize> - Wrapper to normalize serializer method name

=item B<deserialize> - Wrapper to normalize deserializer method name

=back

=head1 AUTHOR

Naoya Ito <naoya@bloghackers.net>
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=head1 SEE ALSO

perl(1), Data::Serializer(3), Data::Taxi(3).

=cut

Found in path(s):
* /opt/cola/permits/1144945885_1633499481.48/0/libdata-serializer-perl-0-60-orig-1-tar-gz/Data-Serializer-0.60/lib/Data/Serializer/Data/Taxi.pm

1.57 procps 3.3.10-4ubuntu2.5
1.57.1 Available under license :

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1.58 libxau 1.0.8 1

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1.63 rsync 3.1.1 3ubuntu1.3

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This is Debian's prepackaged version of Andrew Tridgell and
Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement
for rcp that uses the rsync algorithm to transfer only the
differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>,
from sources obtained from:
   http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
   http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz
   on 2013-09-30 by Paul Slootman <paul@debian.org>.

   The changes were very minimal - merely adding support for the Debian
   package maintenance scheme by adding various debian/* files.
   The only significant change is passing the -4 / -6 options through to ssh.
   See the debian/patches/ directory.

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1.64 libibverbs 1.1.8 1.1ubuntu2

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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/dom/WMLRefreshElementImpl.java
jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xercesimpl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/CommentImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/ObjectFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/DefaultNamespaceContext.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xercesimpl/dv/DTDGrammarBucket.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xercesimpl/dv/(XML11DTDDescription.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xercesimpl/xs/XSAttributeUse.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/DefaultNamespaceContext.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/xs/DefaultNamespaceContext.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xercesimpl/dv/DTDGrammarBucket.java
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jar/org/apache/xerces/xs/DefaultNamespaceContext.java
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jar/org/apache/html/dom/HTMLDocumentImpl.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/HTTPInputSource.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/HTMLFontElementImpl.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLPrevElementImpl.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/ValidatedInfo.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLBigElement.java
 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptgroupElement.java

jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLBrElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xx/datatypes/ByteList.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
 */

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xx/models/XSCMValidator.java

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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>MODEASYNCHRONOUS</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>MODEASYNCHRONOUS</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>`.

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>Note: 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'" 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/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

1.73 ufw 0.35 0ubuntu2

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1.74 slf4j-simple 1.5.8

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1.76 jaeger-thrift 1.1.0

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The primary ANTLR guy:

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1.88 libtirpc 1.3.1-1

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1.89 base-passwd 3.5.39

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1.93 mime-support 3.59ubuntu1

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1.94 jetty-http 9.4.16.v20190411

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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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* 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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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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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were developed by Martin Porter and Richard Boulton.

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```
analysis/common/src/resources/org/apache/lucene/analysis/snowball
```

were developed by Martin Porter and Richard Boulton.

The full snowball package is available from

```
http://snowball.tartarus.org/
```

The KStem stemmer in

```
analysis/common/src/org/apache/lucene/analysis/en
```

was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

```
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
```


The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:

```
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
```

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.
The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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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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1.115 jetty-servlets 9.4.34.v20201102

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

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

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

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

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Open Source Used In Virtual Topology System 2.6.7 1162
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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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.119 libseccomp 2.5.1-1

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1.125 liblist-moreutils-perl 0.413-1build1

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=pod

=head1 NAME

List::MoreUtils - Provide the stuff missing in List::Util

=head1 SYNOPSIS

# import specific functions

use List::MoreUtils qw(any uniq);

if ( any { /foo/ } uniq @has_duplicates ) {
    # do stuff
}

# import everything

use List::MoreUtils ':all';

# import by API

# has "original" any/all/none/notall behavior
use List::MoreUtils ':like_0.22';
# 0.22 + bsearch
use List::MoreUtils ':like_0.24';
# has "simplified" any/all/none/notall behavior + (n)sort_by
use List::MoreUtils ':like_0.33';

=head1 DESCRIPTION

B<List::MoreUtils> provides some trivial but commonly needed functionality on
lists which is not going to go into L<List::Util>.

All of the below functions are implementable in only a couple of lines of Perl
code. Using the functions from this module however should give slightly better
performance as everything is implemented in C. The pure-Perl implementation of
these functions only serves as a fallback in case the C portions of this module
couldn't be compiled on this machine.

=head1 EXPORTS

=head2 Default behavior

Nothing by default. To import all of this module's symbols use the C<:all> tag.
Otherwise functions can be imported by name as usual:

use List::MoreUtils ':all';

use List::MoreUtils qw{ any firstidx };  

Because historical changes to the API might make upgrading List::MoreUtils
difficult for some projects, the legacy API is available via special import
tags.

=head2 Like version 0.22 (last release with original API)

This API was available from 2006 to 2009, returning undef for empty lists on
C<all>/C<any>/C<none>/C<notall>:

use List::MoreUtils ':like_0.22';

This import tag will import all functions available as of version 0.22.
However, it will import C<any_u> as C<any>, C<all_u> as C<all>, C<none_u> as
C<none>, and C<notall_u> as C<notall>.

=head2 Like version 0.24 (first incompatible change)

This API was available from 2010 to 2011. It changed the return value of C<none>
and added the C<bsearch> function.
use List::MoreUtils ':like_0.24';

This import tag will import all functions available as of version 0.24. However it will import C<any_u> as C<any>, C<all_u> as C<all>, and C<notall_u> as C<notall>. It will import C<none> as described in the documentation below (true for empty list).

=head2 Like version 0.23 (second incompatible change)

This API was available from 2011 to 2014. It is widely used in several CPAN modules and thus it's closest to the current API. It changed the return values of C<any>, C<all>, and C<notall>. It added the C<sort_by> and C<nsort_by> functions and the C<distinct> alias for C<uniq>. It omitted C<bsearch>.

use List::MoreUtils ':like_0.33';

This import tag will import all functions available as of version 0.33. Note: it will not import C<bsearch> for consistency with the 0.33 API.

=head1 FUNCTIONS

=head2 Junctions

=head3 I<Treatment of an empty list>

There are two schools of thought for how to evaluate a junction on an empty list:

=over

=item *

Reduction to an identity (boolean)

=item *

Result is undefined (three-valued)

=back

In the first case, the result of the junction applied to the empty list is determined by a mathematical reduction to an identity depending on whether the underlying comparison is "or" or "and". Conceptually:

<table>
<thead>
<tr>
<th></th>
<th>&quot;any are true&quot;</th>
<th>&quot;all are true&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 elements:</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>1 element:</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>
In the second case, three-value logic is desired, in which a junction applied to an empty list returns C<undef> rather than true or false.

Junctions with a C<_u> suffix implement three-valued logic. Those without are boolean.

=head3 all BLOCK LIST
=head3 all_u BLOCK LIST

Returns a true value if all items in LIST meet the criterion given through BLOCK. Sets C<$_> for each item in LIST in turn:

print "All values are non-negative"
if all { $_ >= 0 } ($x, $y, $z);

For an empty LIST, C<all> returns true (i.e. no values failed the condition) and C<all_u> returns C<undef>.

Thus, C<< all_u(@list) >> is equivalent to C<< @list ? all(@list) : undef >>.

B<Note>: because Perl treats C<undef> as false, you must check the return value of C<all_u> with C<defined> or you will get the opposite result of what you expect.

=head3 any BLOCK LIST
=head3 any_u BLOCK LIST

Returns a true value if any item in LIST meets the criterion given through BLOCK. Sets C<$_> for each item in LIST in turn:

print "At least one non-negative value"
if any { $_ >= 0 } ($x, $y, $z);

For an empty LIST, C<any> returns false and C<any_u> returns C<undef>.

Thus, C<< any_u(@list) >> is equivalent to C<< @list ? any(@list) : undef >>.

=head3 none BLOCK LIST
=head3 none_u BLOCK LIST

Logically the negation of C<any>. Returns a true value if no item in LIST meets the criterion given through BLOCK. Sets C<$_> for each item in LIST in turn:
print "No non-negative values"
if none { $_ >= 0 } ($x, $y, $z);

For an empty LIST, C<none> returns true (i.e. no values failed the condition) and C<none_u> returns C<undef>.

Thus, C<< none_u(@list) >> is equivalent to C<< @list ? none(@list) : undef >>.

B<Note>: because Perl treats C<undef> as false, you must check the return value of C<none_u> with C<defined> or you will get the opposite result of what you expect.

=head3 notall BLOCK LIST

=head3 notall_u BLOCK LIST

Logically the negation of C<all>. Returns a true value if not all items in LIST meet the criterion given through BLOCK. Sets C<$_> for each item in LIST in turn:

print "Not all values are non-negative"
if notall { $_ >= 0 } ($x, $y, $z);

For an empty LIST, C<notall> returns false and C<notall_u> returns C<undef>.

Thus, C<< notall_u(@list) >> is equivalent to C<< @list ? notall(@list) : undef >>.

=head3 one BLOCK LIST

=head3 one_u BLOCK LIST

Returns a true value if precisely one item in LIST meets the criterion given through BLOCK. Sets C<$_> for each item in LIST in turn:

print "Precisely one value defined"
if one { defined($_) } @list;

Returns false otherwise.

For an empty LIST, C<one> returns false and C<one_u> returns C<undef>.

The expression C<one BLOCK LIST> is almost equivalent to C<1 == true BLOCK LIST>, except for short-cutting. Evaluation of BLOCK will immediately stop at the second true value.

=head2 Transformation

=head3 apply BLOCK LIST
Applies BLOCK to each item in LIST and returns a list of the values after BLOCK has been applied. In scalar context, the last element is returned. This function is similar to C<map> but will not modify the elements of the input list:

```perl
my @list = (1 .. 4);
my @mult = apply { $_ *= 2 } @list;
print "@list = @list\n";
print "@mult = @mult\n";
__END__
@list = 1 2 3 4
@mult = 2 4 6 8
```

Think of it as syntactic sugar for

```perl
for (my @mult = @list) { $_ *= 2 }
```

=head3 insert_after BLOCK VALUE LIST

Inserts VALUE after the first item in LIST for which the criterion in BLOCK is true. Sets C<$_> for each item in LIST in turn.

```perl
my @list = qw/This is a list/;
insert_after { $_ eq "a" } "longer" => @list;
print "@list";
__END__
This is a longer list
```

=head3 insert_after_string STRING VALUE LIST

Inserts VALUE after the first item in LIST which is equal to STRING.

```perl
my @list = qw/This is a list/;
insert_after_string "a", "longer" => @list;
print "@list";
__END__
This is a longer list
```

=head3 pairwise BLOCK ARRAY1 ARRAY2

Evaluates BLOCK for each pair of elements in ARRAY1 and ARRAY2 and returns a new list consisting of BLOCK’s return values. The two elements are set to C<$a> and C<$b>. Note that those two are aliases to the original value so changing them will modify the input arrays.

```perl
@a = (1 .. 5);
@b = (11 .. 15);
```
@x = pairwise { $a + $b } @a, @b;  # returns 12, 14, 16, 18, 20

# mesh with pairwise
@a = qw/a b c/;
@b = qw/1 2 3/;
@x = pairwise { ($a, $b) } @a, @b;  # returns a, 1, b, 2, c, 3

=head3 mesh ARRAY1 ARRAY2 [ ARRAY3 ... ]

=head3 zip ARRAY1 ARRAY2 [ ARRAY3 ... ]

Returns a list consisting of the first elements of each array, then the second, then the third, etc, until all arrays are exhausted.

Examples:

@x = qw/a b c d/;
@y = qw/1 2 3 4/;
@z = mesh @x, @y;       # returns a, 1, b, 2, c, 3, d, 4

@a = ('x');
@b = ('1', '2');
@c = qw/zip zap zot/;
@d = mesh @a, @b, @c;  # x, 1, zip, undef, 2, zap, undef, undef, zot

C<zip> is an alias for C<mesh>.

=head3 uniq LIST

=head3 distinct LIST

Returns a new list by stripping duplicate values in LIST by comparing the values as hash keys, except that undef is considered separate from ".

The order of elements in the returned list is the same as in LIST. In scalar context, returns the number of unique elements in LIST.

my @x = uniq 1, 1, 2, 2, 3, 5, 3, 4; # returns 1 2 3 5 4
my $x = uniq 1, 1, 2, 2, 3, 5, 3, 4; # returns 5
# returns "Mike", "Michael", "Richard", "Rick"
my @n = distinct "Mike", "Michael", "Richard", "Rick"
# returns ", 'S1', A5' and complains about "Use of uninitialized value"
my @s = distinct ",", undef, 'S1', 'A5'
# returns undef, 'S1', A5' and complains about "Use of uninitialized value"
my @w = uniq undef, ",", 'S1', 'A5'

C<distinct> is an alias for C<uniq>.

B<RT#49800> can be used to give feedback about this behavior.
Returns a new list by stripping values in LIST occurring more than once by comparing the values as hash keys, except that undef is considered separate from "." The order of elements in the returned list is the same as in LIST. In scalar context, returns the number of elements occurring only once in LIST.

my @x = singleton 1,1,2,2,3,4,5 # returns 3 4 5

Returns a list of the values of LIST after (and not including) the point where BLOCK returns a true value. Sets C<$_> for each element in LIST in turn.

@x = after { $_ % 5 == 0 } (1..9);    # returns 6, 7, 8, 9

Same as C<after> but also includes the element for which BLOCK is true.

Returns a list of values of LIST up to (and not including) the point where BLOCK returns a true value. Sets C<$_> for each element in LIST in turn.

Same as C<before> but also includes the element for which BLOCK is true.

Partitions LIST based on the return value of BLOCK which denotes into which partition the current value is put.

You can have a sparse list of partitions as well where non-set partitions will be undef:

my $i = 0;
my @part = part { $i++ % 2 } 1 .. 8;  # returns [1, 3, 5, 7], [2, 4, 6, 8]

my @part = part { 2 } 1 .. 10;            # returns undef, undef, [ 1 .. 10 ]
Be careful with negative values, though:

```perl
my @part = part { -1 } 1 .. 10;
__END__
Modification of non-creatable array value attempted, subscript -1 ...
```

Negative values are only ok when they refer to a partition previously created:

```perl
my @idx = ( 0, 1, -1 );
my $i = 0;
my @part = part { $idx[ ++$i % 3 ] } 1 .. 8; # [1, 4, 7], [2, 3, 5, 6, 8]
```

=head2 Iteration

=head3 each_array ARRAY1 ARRAY2 ...

Creates an array iterator to return the elements of the list of arrays ARRAY1, ARRAY2 throughout ARRAYn in turn. That is, the first time it is called, it returns the first element of each array. The next time, it returns the second elements. And so on, until all elements are exhausted.

This is useful for looping over more than one array at once:

```perl
my $ea = each_array(@a, @b, @c);
while ( my ($a, $b, $c) = $ea->() )   { .... }
```

The iterator returns the empty list when it reached the end of all arrays.

If the iterator is passed an argument of C<index>, then it returns the index of the last fetched set of values, as a scalar.

=head3 each_arrayref LIST

Like each_array, but the arguments are references to arrays, not the plain arrays.

=head3 natatime EXPR, LIST

Creates an array iterator, for looping over an array in chunks of C<$n> items at a time. (n at a time, get it?). An example is probably a better explanation than I could give in words.

Example:

```perl
my @x = ('a' .. 'g');
my $it = natatime 3, @x;
while (my @vals = $it->())
{
```
print "@vals\n";
}

This prints

a b c
d e f
g

=head2 Searching

=head3 bsearch BLOCK LIST

Performs a binary search on LIST which must be a sorted list of values. BLOCK must return a negative value if the current element (stored in C<$_> ) is smaller, a positive value if it is bigger and zero if it matches.

Returns a boolean value in scalar context. In list context, it returns the element if it was found, otherwise the empty list.

=head3 bsearchidx BLOCK LIST

=head3 bsearch_index BLOCK LIST

Performs a binary search on LIST which must be a sorted list of values. BLOCK must return a negative value if the current element (stored in C<$_> ) is smaller, a positive value if it is bigger and zero if it matches.

Returns the index of found element, otherwise C<-1>.

C<bsearch_index> is an alias for C<bsearchidx>.

=head3 firstval BLOCK LIST

=head3 first_value BLOCK LIST

Returns the first element in LIST for which BLOCK evaluates to true. Each element of LIST is set to C<$_> in turn. Returns C<undef> if no such element has been found.

C<first_value> is an alias for C<firstval>.

=head3 onlyval BLOCK LIST

=head3 only_value BLOCK LIST

Returns the only element in LIST for which BLOCK evaluates to true. Sets C<$_> for each item in LIST in turn. Returns C<undef> if no such element
has been found.

C<only_value> is an alias for C<onlyval>.

=head3 lastval BLOCK LIST

=head3 last_value BLOCK LIST

Returns the last value in LIST for which BLOCK evaluates to true. Each element of LIST is set to C<$_> in turn. Returns C<undef> if no such element has been found.

C<last_value> is an alias for C<lastval>.

=head3 firstres BLOCK LIST

=head3 first_result BLOCK LIST

Returns the result of BLOCK for the first element in LIST for which BLOCK evaluates to true. Each element of LIST is set to C<$_> in turn. Returns C<undef> if no such element has been found.

C<first_result> is an alias for C<firstres>.

=head3 onlyres BLOCK LIST

=head3 only_result BLOCK LIST

Returns the result of BLOCK for the first element in LIST for which BLOCK evaluates to true. Sets C<$_> for each item in LIST in turn. Returns C<undef> if no such element has been found.

C<only_result> is an alias for C<onlyres>.

=head3 lastres BLOCK LIST

=head3 last_result BLOCK LIST

Returns the result of BLOCK for the last element in LIST for which BLOCK evaluates to true. Each element of LIST is set to C<$_> in turn. Returns C<undef> if no such element has been found.

C<last_result> is an alias for C<lastres>.

=head3 indexes BLOCK LIST

Evaluates BLOCK for each element in LIST (assigned to C<$_>) and returns a list of the indices of those elements for which BLOCK returned a true value. This is
just like C<grep> only that it returns indices instead of values:

@x = indexes { $_ % 2 == 0 } (1..10);  # returns 1, 3, 5, 7, 9

=head3 firstidx BLOCK LIST

=head3 first_index BLOCK LIST

Returns the index of the first element in LIST for which the criterion in BLOCK
is true. Sets C<$_> for each item in LIST in turn:

my @list = (1, 4, 3, 2, 4, 6);
printf "item with index %i in list is 4", firstidx { $_ == 4 } @list;
__END__
item with index 1 in list is 4

Returns C<-1> if no such item could be found.

C<first_index> is an alias for C<firstidx>.

=head3 onlyidx BLOCK LIST

=head3 only_index BLOCK LIST

Returns the index of the only element in LIST for which the criterion
in BLOCK is true. Sets C<$_> for each item in LIST in turn:

my @list = (1, 3, 4, 3, 2, 4);
printf "uniqe index of item 2 in list is %i", onlyidx { $_ == 2 } @list;
__END__
unique index of item 2 in list is 4

Returns C<-1> if either no such item or more than one of these
has been found.

C<only_index> is an alias for C<onlyidx>.

=head3 lastidx BLOCK LIST

=head3 last_index BLOCK LIST

Returns the index of the last element in LIST for which the criterion in BLOCK
is true. Sets C<$_> for each item in LIST in turn:

my @list = (1, 4, 3, 2, 4, 6);
printf "item with index %i in list is 4", lastidx { $_ == 4 } @list;
__END__
item with index 4 in list is 4
Returns C<-1> if no such item could be found.

C<last_index> is an alias for C<lastidx>.

=head2 Sorting

=head3 sort_by BLOCK LIST

Returns the list of values sorted according to the string values returned by the KEYFUNC block or function. A typical use of this may be to sort objects according to the string value of some accessor, such as

    sort_by { $_->name } @people

The key function is called in scalar context, being passed each value in turn as both $_ and the only argument in the parameters, @_. The values are then sorted according to string comparisons on the values returned.

This is equivalent to

    sort { $a->name cmp $b->name } @people

except that it guarantees the name accessor will be executed only once per value.

One interesting use-case is to sort strings which may have numbers embedded in them "naturally", rather than lexically.

    sort_by { s/\d+/sprintf "%09d", $1/eg; $_ } @strings

This sorts strings by generating sort keys which zero-pad the embedded numbers to some level (9 digits in this case), helping to ensure the lexical sort puts them in the correct order.

=head3 nsort_by BLOCK LIST

Similar to sort_by but compares its key values numerically.

=head2 Counting and calculation

=head3 true BLOCK LIST

Counts the number of elements in LIST for which the criterion in BLOCK is true. Sets C<$_> for each item in LIST in turn:

    printf "%i item(s) are defined", true { defined($_) } @list;

=head3 false BLOCK LIST

Counts the number of elements in LIST for which the criterion in BLOCK is false.
Sets \( C_{$_} \) for each item in \textit{LIST} in turn:

\[
\text{printf "}\%i \text{ item(s) are not defined"}, \text{false } \{ \text{defined($$_)} \} \text{ @list;}
\]

=head3 minmax \textit{LIST}

Calculates the minimum and maximum of \textit{LIST} and returns a two element list with the first element being the minimum and the second the maximum. Returns the empty list if \textit{LIST} was empty.

The \textit{minmax} algorithm differs from a naive iteration over the list where each element is compared to two values being the so far calculated min and max value in that it only requires \(3n/2 - 2\) comparisons. Thus it is the most efficient possible algorithm.

However, the Perl implementation of it has some overhead simply due to the fact that there are more lines of Perl code involved. Therefore, \textit{LIST} needs to be fairly big in order for \textit{C<minmax>} to win over a naive implementation. This limitation does not apply to the XS version.

=head1 ENVIRONMENT

When \textit{C<LIST\_MOREUTILS\_PP>} is set, the module will always use the pure-Perl implementation and not the XS one. This environment variable is really just there for the test-suite to force testing the Perl implementation, and possibly for reporting of bugs. I don't see any reason to use it in a production environment.

=head1 MAINTENANCE

The maintenance goal is to preserve the documented semantics of the API; bug fixes that bring actual behavior in line with semantics are allowed. New API functions may be added over time. If a backwards incompatible change is unavoidable, we will attempt to provide support for the legacy API using the same export tag mechanism currently in place.

This module attempts to use few non-core dependencies. Non-core configuration and testing modules will be bundled when reasonable; run-time dependencies will be added only if they deliver substantial benefit.

=head1 CONTRIBUTING

While contributions are appreciated, a contribution should not cause more effort for the maintainer than the contribution itself saves (see L\textless Open Source Contribution Etiquette\textgreater [http://tirania.org/blog/archive/2010/Dec-31.html]).

To get more familiar where help could be needed - see L\textless List::MoreUtils::Contributing\textgreater.
There is a problem with a bug in 5.6.x perls. It is a syntax error to write things like:

```perl
my @x = apply { s/foo/bar/ } qw{ foo bar baz };
```

It has to be written as either

```perl
my @x = apply { s/foo/bar/ } 'foo', 'bar', 'baz';
```

or

```perl
my @x = apply { s/foo/bar/ } my @dummy = qw/foo bar baz/;
```

Perl 5.5.x and Perl 5.8.x don't suffer from this limitation.

If you have a functionality that you could imagine being in this module, please drop me a line. This module's policy will be less strict than \List::Util's when it comes to additions as it isn't a core module.

When you report bugs, it would be nice if you could additionally give me the output of your program with the environment variable `LIST_MOREUTILS_PP` set to a true value. That way I know where to look for the problem (in XS, pure-Perl or possibly both).

Bugs should always be submitted via the CPAN bug tracker.

You can find documentation for this module with the perldoc command.

```bash
perldoc List::MoreUtils
```

You can also look for information at:

```over 4
=item * RT: CPAN's request tracker
=item * AnnoCPAN: Annotated CPAN documentation
L<http://annocpan.org/dist/List-MoreUtils>
=item * CPAN Ratings
```
Where can I go for help?

If you have a bug report, a patch or a suggestion, please open a new report ticket at CPAN (but please check previous reports first in case your issue has already been addressed) or open an issue on GitHub.

Report tickets should contain a detailed description of the bug or enhancement request and at least an easily verifiable way of reproducing the issue or fix. Patches are always welcome, too - and it's cheap to send pull-requests on GitHub. Please keep in mind that code changes are more likely accepted when they're bundled with an approving test.

If you think you've found a bug then please read "How to Report Bugs Effectively" by Simon Tatham:

Where can I go for help with a concrete version?

Bugs and feature requests are accepted against the latest version only. To get patches for earlier versions, you need to get an agreement with a developer of your choice - who may or not report the issue and a suggested fix upstream (depends on the license you have chosen).

Business support and maintenance

Generally, in volunteered projects, there is no right for support. While every maintainer is happy to improve the provided software, spare time is limited.

For those who have a use case which requires guaranteed support, one of the maintainers should be hired or contracted. For business support you can contact Jens via his CPAN email address rehsackATcpan.org. Please keep in mind that business support is neither available for free nor
are you eligible to receive any support based on the license distributed with this package.

=head1 THANKS

=head2 Tassilo von Parseval

Credits go to a number of people: Steve Purkis for giving me namespace advice and James Keenan and Terrence Branno for their effort of keeping the CPAN tidier by making `List::Utils` obsolete.

Brian McCauley suggested the inclusion of `apply()` and provided the pure-Perl implementation for it.

Eric J. Roode asked me to add all functions from his module `List::MoreUtil` into this one. With minor modifications, the pure-Perl implementations of those are by him.

The bunch of people who almost immediately pointed out the many problems with the glitchy 0.07 release (Slaven Rezic, Ron Savage, CPAN testers).

A particularly nasty memory leak was spotted by Thomas A. Lowery.

Lars Thegler made me aware of problems with older Perl versions.

Anno Siegel de-orphaned `each_arrayref()`.

David Filmer made me aware of a problem in `each_arrayref` that could ultimately lead to a segfault.

Ricardo Signes suggested the inclusion of `part()` and provided the Perl-implementation.

Robin Huston kindly fixed a bug in perl's MULTICALL API to make the XS-implementation of `part()` work.

=head2 Jens Rehsack

Credits goes to all people contributing feedback during the v0.400 development releases.

Special thanks goes to David Golden who spent a lot of effort to develop a design to support current state of CPAN as well as ancient software somewhere in the dark. He also contributed a lot of patches to refactor the API frontend to welcome any user of `List::MoreUtils` - from ancient past to recently last used.

Toby Inkster provided a lot of useful feedback for sane importer code
and was a nice sounding board for API discussions.

Peter Rabbitson provided a sane git repository setup containing entire package history.

=head1 TODO

A pile of requests from other people is still pending further processing in my mailbox. This includes:

=over 4

=item * List::Util export pass-through

Allow B<List::MoreUtils> to pass-through the regular L<List::Util> functions to end users only need to C<use> the one module.

=item * uniq_by(&@)

Use code-reference to extract a key based on which the uniqueness is determined. Suggested by Aaron Crane.

=item * delete_index

=item * random_item

=item * random_item_delete_index

=item * list_diff_hash

=item * list_diff_inboth

=item * list_diff_infirst

=item * list_diff_insecond

These were all suggested by Dan Muey.

=item * listify

Always return a flat list when either a simple scalar value was passed or an array-reference. Suggested by Mark Summersault.

=back

=head1 SEE ALSO

L<List::Util>, L<List::AllUtils>, L<List::UtilsBy>
=head1 AUTHOR

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Adam Kennedy E<lt>adamk@cpan.orgE<gt>
Tassilo von Parseval E<lt>tassilo.von.parseval@rwth-aachen.deE<gt>

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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.4 or, at your option, any later version of Perl 5 you may have available.

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0-413-orig-1-tar-gz/List-MoreUtils-0.413/lib/List/MoreUtils.pm
No license file was found, but licenses were detected in source scan.

=head1 SEE ALSO

L<List::Util>

=head1 AUTHOR

Jens Rehsack E<lt>rehsack AT cpan.orgE<gt>
Adam Kennedy E<lt>adamk@cpan.orgE<gt>
Tassilo von Parseval E<lt>tassilo.von.parseval@rwth-aachen.deE<gt>

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at your option, any later version of Perl 5 you may have available.

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0.413-orig-1-tar-gz/List-MoreUtils-
0.413/lib/List/MoreUtils/PP.pm
No license file was found, but licenses were detected in source scan.

=pod

=encoding UTF-8

=head1 NAME
inc::latest::private - private implementation for inc::latest

=head1 VERSION
version 0.500

=head1 DESCRIPTION
This module has the private methods used to find and load bundled modules.
It should not be used directly.

=head1 AUTHORS
=over 4
=item *
David Golden <dagolden@cpan.org>
=item *
Eric Wilhelm <ewilhelm@cpan.org>
=back

=head1 COPYRIGHT AND LICENSE
This software is Copyright (c) 2009 by David Golden.
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The Apache License, Version 2.0, January 2004

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0-413-orig-1.tar.gz/List-MoreUtils-0.413/inc/latest/private.pm

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

---
abstract: 'Provide the stuff missing in List::Util'
author:
  - 'Tassilo von Parseval <tassilo.von.parseval@rwth-aachen.de>'
  - 'Adam Kennedy <adamk@cpan.org>'
  - 'Jens Rehsack <rehsack@cpan.org>'
build_requires:
  Test::More: '0.96'
configure_requires:
  Carp: '0'
ExtUtils::MakeMaker: '0'
File::Basename: '0'
File::Copy: '0'
File::Path: '0'
File::Spec: '0'
IPC::Cmd: '0'
base: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: List-MoreUtils
no_index:
directory:
  - t
  - inc
requires:
  Exporter::Tiny: '0.038'
  XSLoader: '0'
resources:
  homepage: https://metacpan.org/release/List-MoreUtils
  license: http://dev.perl.org/licenses/
  repository: https://github.com/perl5-utils/List-MoreUtils.git
  version: '0.413'

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::MoreUtils::XS - Provide compiled List::MoreUtils functions

=head1 SYNOPSIS

BEGIN { delete $ENV{LIST_MOREUTILS_PP}; }  
use List::MoreUtils ...;

=head1 SEE ALSO

L<List::Util>, L<List::AllUtils>

=head1 AUTHOR

Jens Rehsack E<lt>rehsack AT cpan.orgE<gt>

Adam Kennedy E<lt>adamk@cpan.orgE<gt>

Tassilo von Parseval E<lt>tassilo.von.parseval@rwth-aachen.deE<gt>

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it under the same terms as Perl itself, either Perl version 5.8.4 or,
at your option, any later version of Perl 5 you may have available.

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0-413-orig-1-tar-gz/List-MoreUtils-0.413/META.yml
No license file was found, but licenses were detected in source scan.

/*

-----------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.31

Automatically created by Devel::PPPort running under perl 5.020002.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only.
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

   perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.  


Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
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</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
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<td>NEED_caller_cx</td>
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<td>eval_pv()</td>
<td>NEED_eval_pv</td>
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<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
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<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
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<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
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<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
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<tr>
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<tr>
<td>mg_findext()</td>
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<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
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<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
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<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
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<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
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<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
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<td>newSV_type()</td>
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<td>newSVpvn_flags()</td>
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<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
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<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
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<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<\$NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```
You can specify a different C<diff> program or options, using the C<option> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<function> function, use:

    perl ppport.h --api-info=function

Since the argument to C<option> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2. 
This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
  quiet => 0,
  diag => 1,
  hints => 1,
)
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r
\])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*';
my $cce = '\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(\%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt[\'compat-version\']) {
    my($r,$v,$s) = eval { parse_version($opt[\'compat-version\']) };
    if ($@) {
        die "Invalid version number format: \$opt[\'compat-version\']\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: \$opt[\'compat-version\']\n" if $v >= 1000 || $s >= 1000;
    $opt[\'compat-version\'] = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my %API = map { /\^\($[0-9.]+$)\[/([^\[\]]*)\[/([^\[\]]*)\[/([^\[\]]*)\]/\$/
                 ? ($1 => {
                     ($2                  ? ( base => $2 ) : ()),
                     ($3                  ? ( todo => $3 ) : ()),
                     (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
                     (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
                     (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
                 )
                 : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001 n
AvFILLp|5.004050||p
AvFILL||
BhkDISABLE|5.021008|
BhkENABLE|5.021008|
BhkENTRY_set|5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope|5.005000||p
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CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
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CopSTASHPV_set|5.006000||p
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CopSTASH_eq|5.006000||p
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DEFSV_set|5.010001||p
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ERRSV|5.004050||p
EXTEND||
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LEAVE

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MULTICALL

MUTABLE_PTR

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MY_CXT_CLONE

MY_CXT_INIT

MoveD

Move

NATIVE_TO_NEED

NOOP

NUM2PTR

NVTYPE

NVef

NVff

NVgf

Newxc

Newxz

Newx

Nullav

Nullch

Nullcv

Nullhv

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PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
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PAD_SET_CUR
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PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
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PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env
PERL_MAGIC_ext
PERL_MAGIC_fm
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_overload
PERL_MAGIC_pos
PERL_MAGIC_qr
PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PERL_MAGIC_regex_global
PERL_MAGIC_shared_scalar
PERL_MAGIC_shared
PERL_MAGIC_sigelem
PERL_MAGIC_sig
PERL_MAGIC_substr
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PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.003070||p
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBsub||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.021008||p
PL_bufptr|5.021008||p
PL_check|5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.021008||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
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PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
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PL_dowarn||pn
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PL_error_count|5.021008||p
PL_expect|5.021008||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.021008||p
PL_in_my|5.021008||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.021008||p
PL_lex_stuff|5.021008||p
PL_linestr|5.021008||p
PL_modglobal|5.005000||n
PL nale|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv||n
PL_opfreehook|5.011000||n
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PoisonNew[5.009004]
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READ_XDIGIT[5.017006]
RETV AL[n]
Renewc
Renew[n]
<table>
<thead>
<tr>
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<th>Version</th>
<th>Description</th>
<th>P-value</th>
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</thead>
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<tr>
<td>SvCUR</td>
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if (exists $opt{list-unsupported}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ".x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s{
        / (?::\[^\]*\^\*+(?:\[^$ccs\]\[^\]*\^\*+)* / | \/[^
\]* ) |
        " \[^"\\]*(?:\\.\[^"\\]*)* " |
        '[\^\*\^\^\^\*]?(?:\[^\\\]\[^\*\^\*\*\^\^\^\*\]*)* ' }
        {egsx; grep { exists $API{$_} } $code =~ /s/}
    }
    while (<DATA>) {
        if ($hint) {
            # Scan for possible replacement candidates
            my(%replace, %need, %hints, %warnings, %depends);
            my $replace = 0;
            my($hint, $define, $function);

            sub find_api
            {
                my $code = shift;
                $code =~ s{
                    / (?::\[^\]*\^\*+(?:\[^$ccs\]\[^\]*\^\*+)* / | \/[^
\]* ) |
                    " \[^"\\]*(?:\\.\[^"\\]*)* " |
                    '[\^\*\^\^\^\*]?(?:\[^\\\]\[^\*\^\*\*\^\^\^\*\]*)* ' }
                    {egsx; grep { exists $API{$_} } $code =~ /s/}
                }
                while (<DATA>) {
                    if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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if (m\(^{\w*\$rcc\s+\(w+\(\w*.,\w*\)\)\s+\+\w+\(\w*.,\w*\)\)\s+\+\s+\$rcce\s+\$}) { my @deps = map { s/s+//g; $_ } split \$/, $3; my $d; for $d (map { s/s+//g; $_ } split \$/, $1) { push @{$depends{$d}}, @deps; }$need{$1} = 1 if m\(^{\w*\defined\(NEED_\(\w+\)\?\_GLOBAL\)\?\})
;} for (values %depends) {
  my %s;
  $_ = [sort grep !$s{$_}++, @$_];
  }
if (exists $opt{\{'api-info\'}}) {
  my $f;
  my $count = 0;
  my $match = $opt{\{'api-info\'}} =~ m!^/(.*)/$! ? $1 : "$\Q$opt{\{'api-info\'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base:\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo:\n";
      print "Support needs to be explicitly requested by NEED_$f,\n" if exists $need{$f};
      print "Depends on: ", join(\',', @{$depends{$f}}), ",\n" if exists $depends{$f};
      print "\nShints[$f]" if exists $hints{$f};
      print "\nWARNING:\n\n$warnings{$f}" if exists $warnings{$f};
      $info++;
    }
    print "No portability information available.\n" unless $info;
    $count++;
  }
  $count or print "Found no API matching '$opt{\{'api-info\'}}'.\n";
  print "\n";
  exit 0;
}
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend' if exists $depends{$f};
    push @flags, 'hint' if exists $hints{$f};
    push @flags, 'warning' if exists $warnings{$f};
    my $flags = @flags ? ['join(', ', ', @flags).'] : "';
    print "$f$flags
";
} exit 0;

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file
" }
        } else {
            my @new = grep { -f } glob $_
            or warn "$_ does not exist
";
            push @files, grep { !$seen{$_}++ } @new;
        }
    } else {
        eval {
            require File::Find;
            File::Find::find(sub {
                $File::Find::name =~ /($srcext)/i
                and push @files, $File::Find::name;
            }, '.');
        } if ($@) {
            @files = map { glob "*$_" } @srcext;
        }
    }
if (!@ARGV || $opt{filter}) {
    my(@in, @out):

my %xsc = map { /.*(\.*xs)$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
    my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$/i;
    push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
                ", join "\n", @out);
    @files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
next;
    }
    info("Scanning $filename ...");
    my $c = do { local $/; <IN> }
    close IN;
    my %file = (orig => $c, changes => 0);
    # Temporarily remove C/XS comments and strings from the code
    my @ccom;
    $c =~ s{
        ( ^[\^\r\n]*\# included include[\^\r\n]+|\b(?:\Q$ppport\E|XSUB\:h)\b[\^\r\n]*
        | ^[\^\r\n]([^\r\n]* )
        | ( ^[\^\r\n] )
        | ["[^"\\]*(?:\.|[^"\\]*)*"
        | [\'][^'\\]*(?:\.|[^'\\]*)"
        | / (?:\^[\^\*]*\*+%+(*[\^\*\^\s\*]+) / | [\^[\^\r\n]*) )
    }{ defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$c cc $c e cce" }mgsex;
    $file{ccom} = @ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^[\^\r\n]+\b(?:\$ppport\E|XSUB\:h)\b[^\r\n]*$;
    my %files = %files;
    %files{orig} = $c;
    %files{changes} = 0;
    %files{has_inc_ppport} = $c =~ /(?:\^\r\n)+\b(?:\$ppport\E|XSUB\:h)\b[^\r\n]*$;
    for $filen...
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}

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# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);

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for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}->{$func}) {
        if (exists $file{uses_deps}->{$func}) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}->{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ", format_version($API->{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}->{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}->{$func} && $file{needs}->{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}->{$func}) {
        $message = "No need to define NEED_$func\GLOBAL if $func is never used";
    } elsif (exists $file{needs}->{$func}) {
        if ($file{needs}->{$func} eq 'extern') {
            $message = "No need to define NEED_$func\GLOBAL when already needed globally";
        } elsif ($file{needs}->{$func} eq 'static') {
            $message = "No need to define NEED_$func\GLOBAL when only used in this file";
        }
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs} {$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"} {$func}) {
            if ($type eq 'global') {
                diag("Files @{$global{needs}{$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_${func}$suffix
";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n";
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*)define$HS+_w+/+$Spp/m) || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$SLF//m);
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn"); 

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, "$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, "$opt{patch}") {

            ```
$patch_opened = 1;

else {
    error("Cannot open '$opt{patch}' for writing: $! ");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}

mydiff(*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use("Text::Diff")) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $._;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        else {


error("Cannot open '$tmp' for writing: $!");
}
return undef;
}
sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}
sub parse_version
{
my $ver = shift;
if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {
die "cannot parse version '$ver'\n";
}
$ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {
die "cannot parse version '$ver'\n";
}
}
return ($r, $v, $s);
}
sub format_version
{
my $ver = shift;

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$ver =~ s/$/000000/
my($r,$v,$s) = $ver =~ /\d+/(\d{3})/(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version $ver\n";
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info {
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag {
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning {
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error {
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint {
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"

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Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X \$0 --unstrip

# NAME

List::MoreUtils - Provide the stuff missing in List::Util

# SYNOPSIS

# import specific functions
use List::MoreUtils qw(any uniq);

if ( any { /foo/ } uniq @has_duplicates ) {
    # do stuff
}

# import everything

use List::MoreUtils ':all';

# import by API

# has "original" any/all/none/notall behavior
use List::MoreUtils ':like_0.22';
# 0.22 + bsearch
use List::MoreUtils ':like_0.24';
# has "simplified" any/all/none/notall behavior + (n)sort_by
use List::MoreUtils ':like_0.33';

# DESCRIPTION

__List::MoreUtils__ provides some trivial but commonly needed functionality on lists which is not going to go into [List::Util](https://metacpan.org/pod/List::Util).

All of the below functions are implementable in only a couple of lines of Perl code. Using the functions from this module however should give slightly better performance as everything is implemented in C. The pure-Perl implementation of these functions only serves as a fallback in case the C portions of this module couldn't be compiled on this machine.

# EXPORTS

## Default behavior

Nothing by default. To import all of this module's symbols use the `:all` tag. Otherwise functions can be imported by name as usual:

use List::MoreUtils ':all';

use List::MoreUtils qw{ any firstidx };

Because historical changes to the API might make upgrading List::MoreUtils difficult for some projects, the legacy API is available via special import tags.

## Like version 0.22 (last release with original API)
This API was available from 2006 to 2009, returning undef for empty lists on
`all`/`any`/`none`/`notall`:

```perl
use List::MoreUtils ':like_0.22';
```

This import tag will import all functions available as of version 0.22.  
However, it will import `any_u` as `any`, `all_u` as `all`, `none_u` as `none`, and `notall_u` as `notall`.

## Like version 0.24 (first incompatible change)

This API was available from 2010 to 2011. It changed the return value of `none` 
and added the `bsearch` function.

```perl
use List::MoreUtils ':like_0.24';
```

This import tag will import all functions available as of version 0.24.  
However it will import `any_u` as `any`, `all_u` as `all`, and `notall_u` as `notall`.  It will import `none` as described in 
the documentation below (true for empty list).

## Like version 0.33 (second incompatible change)

This API was available from 2011 to 2014. It is widely used in several CPAN 
modules and thus it's closest to the current API. It changed the return values 
of `any`, `all`, and `notall`. It added the `sort_by` and `nsort_by` functions 
and the `distinct` alias for `uniq`. It omitted `bsearch`.

```perl
use List::MoreUtils ':like_0.33';
```

This import tag will import all functions available as of version 0.33. Note:  
it will not import `bsearch` for consistency with the 0.33 API.

# FUNCTIONS

## Junctions

### _Treatment of an empty list_

There are two schools of thought for how to evaluate a junction on an empty list:

- Reduction to an identity (boolean)
- Result is undefined (three-valued)

In the first case, the result of the junction applied to the empty list is determined by a mathematical reduction to an identity depending on whether the underlying comparison is "or" or "and". Conceptually:
"any are true"    "all are true"
------------------  ------------------
2 elements:  A || B || 0    A && B && 1
1 element:   A || 0          A && 1
0 elements:  0               1

In the second case, three-value logic is desired, in which a junction applied to an empty list returns `undef` rather than true or false.

Junctions with a `_u` suffix implement three-valued logic. Those without are boolean.

### all BLOCK LIST

### all_u BLOCK LIST

Returns a true value if all items in LIST meet the criterion given through BLOCK. Sets `$_` for each item in LIST in turn:

```perl
print "All values are non-negative"
if all { $_ >= 0 } ($x, $y, $z);
```

For an empty LIST, `all` returns true (i.e. no values failed the condition) and `all_u` returns `undef`.

Thus, `all_u(@list)` is equivalent to `@list ? all(@list) : undef`.

__Note__: because Perl treats `undef` as false, you must check the return value of `all_u` with `defined` or you will get the opposite result of what you expect.

### any BLOCK LIST

### any_u BLOCK LIST

Returns a true value if any item in LIST meets the criterion given through BLOCK. Sets `$_` for each item in LIST in turn:

```perl
print "At least one non-negative value"
if any { $_ >= 0 } ($x, $y, $z);
```

For an empty LIST, `any` returns false and `any_u` returns `undef`.

Thus, `any_u(@list)` is equivalent to `@list ? any(@list) : undef`.

### none BLOCK LIST
### none\_u BLOCK LIST

Logically the negation of `any`. Returns a true value if no item in LIST meets the criterion given through BLOCK. Sets `$_` for each item in LIST in turn:

    print "No non-negative values"
    if none { $_ >= 0 } ($x, $y, $z);

For an empty LIST, `none` returns true (i.e. no values failed the condition) and `none_u` returns `undef`.

Thus, `none_u(@list)` is equivalent to `@list ? none(@list) : undef`.

__Note__: because Perl treats `undef` as false, you must check the return value of `none_u` with `defined` or you will get the opposite result of what you expect.

### notall BLOCK LIST

### notall\_u BLOCK LIST

Logically the negation of `all`. Returns a true value if not all items in LIST meet the criterion given through BLOCK. Sets `$_` for each item in LIST in turn:

    print "Not all values are non-negative"
    if notall { $_ >= 0 } ($x, $y, $z);

For an empty LIST, `notall` returns false and `notall_u` returns `undef`.

Thus, `notall_u(@list)` is equivalent to `@list ? notall(@list) : undef`.

### Transformation

### apply BLOCK LIST

Applies BLOCK to each item in LIST and returns a list of the values after BLOCK has been applied. In scalar context, the last element is returned. This function is similar to `map` but will not modify the elements of the input list:

    my @list = (1 .. 4);
    my @mult = apply { $_ *= 2 } @list;
    print "@list = @list\n";
    print "@mult = @mult\n";
    __END__
    @list = 1 2 3 4
    @mult = 2 4 6 8
Think of it as syntactic sugar for

```perl
for (my @mult = @list) { $*_2 }
```

### `insert_after` BLOCK VALUE LIST

Inserts VALUE after the first item in LIST for which the criterion in BLOCK is true. Sets `$_` for each item in LIST in turn.

```perl
my @list = qw/This is a list/;
insert_after { $eq "a" } "longer" => @list;
print "@list";
__END__
This is a longer list
```

### `insert_after_string` STRING VALUE LIST

Inserts VALUE after the first item in LIST which is equal to STRING.

```perl
my @list = qw/This is a list/;
insert_after_string "a", "longer" => @list;
print "@list";
__END__
This is a longer list
```

### pairwise BLOCK ARRAY1 ARRAY2

Evaluates BLOCK for each pair of elements in ARRAY1 and ARRAY2 and returns a new list consisting of BLOCK's return values. The two elements are set to `$_a` and `$_b`. Note that those two are aliases to the original value so changing them will modify the input arrays.

```perl
@a = (1 .. 5);
@b = (11 .. 15);
@x = pairwise { $a + $b } @a, @b;     # returns 12, 14, 16, 18, 20

# mesh with pairwise
@a = qw/a b c/;
@b = qw/1 2 3/;
@x = pairwise { ($a, $b) } @a, @b;    # returns a, 1, b, 2, c, 3
```

### `mesh` ARRAY1 ARRAY2 \[ ARRAY3 ... \]

### `zip` ARRAY1 ARRAY2 \[ ARRAY3 ... \]

Returns a list consisting of the first elements of each array, then the second, then the third, etc, until all arrays are exhausted.
Examples:

```perl
@x = qw/a b c d/;
@y = qw/1 2 3 4/;
@z = mesh @x, @y;         # returns a, 1, b, 2, c, 3, d, 4

@a = ('x');
@b = ('1', '2');
@c = qw/zip zap zot/;
@d = mesh @a, @b, @c;   # x, 1, zip, undef, 2, zap, undef, undef, zot
```

`zip` is an alias for `mesh`.

#### uniq LIST

#### distinct LIST

Returns a new list by stripping duplicate values in LIST. The order of elements in the returned list is the same as in LIST. In scalar context, returns the number of unique elements in LIST.

```perl
my @x = uniq 1, 1, 2, 2, 3, 5, 3, 4; # returns 1 2 3 5 4
my $x = uniq 1, 1, 2, 2, 3, 5, 3, 4; # returns 5
```

`distinct` is an alias for `uniq`.

#### Partitioning

#### after BLOCK LIST

Returns a list of the values of LIST after (and not including) the point where BLOCK returns a true value. Sets `$_` for each element in LIST in turn.

```perl
@x = after { $_ % 5 == 0 } (1..9);    # returns 6, 7, 8, 9
```

#### after\_incl BLOCK LIST

Same as `after` but also includes the element for which BLOCK is true.

#### before BLOCK LIST

Returns a list of values of LIST up to (and not including) the point where BLOCK returns a true value. Sets `$_` for each element in LIST in turn.

#### before\_incl BLOCK LIST

Same as `before` but also includes the element for which BLOCK is true.
### part BLOCK LIST

Partitions LIST based on the return value of BLOCK which denotes into which partition the current value is put.

Returns a list of the partitions thusly created. Each partition created is a reference to an array.

```perl
my $i = 0;
my @part = part { $i++ % 2 } 1 .. 8;   # returns [1, 3, 5, 7], [2, 4, 6, 8]
```

You can have a sparse list of partitions as well where non-set partitions will be undef:

```perl
my @part = part { 2 } 1 .. 10;            # returns undef, undef, [ 1 .. 10 ]
```

Be careful with negative values, though:

```perl
my @part = part { -1 } 1 .. 10;
__END__
 Modification of non-creatable array value attempted, subscript -1 ...
```

Negative values are only ok when they refer to a partition previously created:

```perl
my @idx  = ( 0, 1, -1 );
my $i    = 0;
my @part = part { $idx[$++ % 3] } 1 .. 8; # [1, 4, 7], [2, 3, 5, 6, 8]
```

### Iteration

#### each_array ARRAY1 ARRAY2 ...

Creates an array iterator to return the elements of the list of arrays ARRAY1, ARRAY2 throughout ARRAYn in turn. That is, the first time it is called, it returns the first element of each array. The next time, it returns the second elements. And so on, until all elements are exhausted.

This is useful for looping over more than one array at once:

```perl
my $ea = each_array(@a, @b, @c);
while ( my ($a, $b, $c) = $ea->() ) { .... }
```

The iterator returns the empty list when it reached the end of all arrays.

If the iterator is passed an argument of "index", then it returns the index of the last fetched set of values, as a scalar.
### each\_arrayref LIST

Like each\_array, but the arguments are references to arrays, not the plain arrays.

### natatime EXPR, LIST

Creates an array iterator, for looping over an array in chunks of `\$n` items at a time. (n at a time, get it?). An example is probably a better explanation than I could give in words.

Example:

```perl
my @x = ('a' .. 'g');
my $it = natatime 3, @x;
while (my @vals = $it->())
{
    print "@vals\n";
}
```

This prints

```
a b c
d e f
g
```

## Searching

### bsearch BLOCK LIST

Performs a binary search on LIST which must be a sorted list of values. BLOCK must return a negative value if the current element (stored in `$_`) is smaller, a positive value if it is bigger and zero if it matches.

Returns a boolean value in scalar context. In list context, it returns the element if it was found, otherwise the empty list.

### firstval BLOCK LIST

### first\_value BLOCK LIST

Returns the first element in LIST for which BLOCK evaluates to true. Each element of LIST is set to `$_` in turn. Returns `undef` if no such element has been found.

`first\_value` is an alias for `firstval`.

### lastval BLOCK LIST
### last\_value BLOCK LIST

Returns the last value in LIST for which BLOCK evaluates to true. Each element of LIST is set to `$_` in turn. Returns `undef` if no such element has been found.

`last_value` is an alias for `lastval`.

### indexes BLOCK LIST

Evaluates BLOCK for each element in LIST (assigned to `$_`) and returns a list of the indices of those elements for which BLOCK returned a true value. This is just like `grep` only that it returns indices instead of values:

```perl
@x = indexes { $% 2 == 0 } (1..10);  # returns 1, 3, 5, 7, 9
```

### firstidx BLOCK LIST

Returns the index of the first element in LIST for which the criterion in BLOCK is true. Sets `$_` for each item in LIST in turn:

```perl
my @list = (1, 4, 3, 2, 4, 6);
printf "item with index %i in list is 4", firstidx { $== 4 } @list;
END
```

Returns `-1` if no such item could be found.

`first_index` is an alias for `firstidx`.

### lastidx BLOCK LIST

Returns the index of the last element in LIST for which the criterion in BLOCK is true. Sets `$_` for each item in LIST in turn:

```perl
my @list = (1, 4, 3, 2, 4, 6);
printf "item with index %i in list is 4", lastidx { $== 4 } @list;
END
```

Returns `-1` if no such item could be found.
'last_index' is an alias for 'lastidx'.

## Sorting

### sort\_by BLOCK LIST

Returns the list of values sorted according to the string values returned by the KEYFUNC block or function. A typical use of this may be to sort objects according to the string value of some accessor, such as

```
sort_by { $_->name } @people
```

The key function is called in scalar context, being passed each value in turn as both \$_ and the only argument in the parameters, @\_. The values are then sorted according to string comparisons on the values returned. This is equivalent to

```
sort { $a->name cmp $b->name } @people
```

except that it guarantees the name accessor will be executed only once per value. One interesting use-case is to sort strings which may have numbers embedded in them "naturally", rather than lexically.

```
sort_by { s/(\d+)/sprintf "%09d", $1/eg; $_ } @strings
```

This sorts strings by generating sort keys which zero-pad the embedded numbers to some level (9 digits in this case), helping to ensure the lexical sort puts them in the correct order.

### nsort\_by BLOCK LIST

Similar to sort\_by but compares its key values numerically.

## Counting and calculation

### true BLOCK LIST

Counts the number of elements in LIST for which the criterion in BLOCK is true. Sets \$_ for each item in LIST in turn:

```
printf "%i item(s) are defined", true { defined($_) } @list;
```

### false BLOCK LIST

Counts the number of elements in LIST for which the criterion in BLOCK is false. Sets \$_ for each item in LIST in turn:

```
printf "%i item(s) are not defined", false { defined($_) } @list;
```
### minmax LIST

Calculates the minimum and maximum of LIST and returns a two element list with the first element being the minimum and the second the maximum. Returns the empty list if LIST was empty.

The `minmax` algorithm differs from a naive iteration over the list where each element is compared to two values being the so far calculated min and max value in that it only requires \(3n/2 - 2\) comparisons. Thus it is the most efficient possible algorithm.

However, the Perl implementation of it has some overhead simply due to the fact that there are more lines of Perl code involved. Therefore, LIST needs to be fairly big in order for `minmax` to win over a naive implementation. This limitation does not apply to the XS version.

# ENVIRONMENT

When `LIST_MOREUTILS_PP` is set, the module will always use the pure-Perl implementation and not the XS one. This environment variable is really just there for the test-suite to force testing the Perl implementation, and possibly for reporting of bugs. I don't see any reason to use it in a production environment.

# MAINTENANCE

The maintenance goal is to preserve the documented semantics of the API; bug fixes that bring actual behavior in line with semantics are allowed. New API functions may be added over time. If a backwards incompatible change is unavoidable, we will attempt to provide support for the legacy API using the same export tag mechanism currently in place.

This module attempts to use few non-core dependencies. Non-core configuration and testing modules will be bundled when reasonable; run-time dependencies will be added only if they deliver substantial benefit.

# BUGS

There is a problem with a bug in 5.6.x perls. It is a syntax error to write things like:

```perl
my @x = apply { s/foo/bar/ } qw{ foo bar baz };  
```

It has to be written as either

```perl
my @x = apply { s/foo/bar/ } 'foo', 'bar', 'baz';
```
my @x = apply { s/foo/bar/ } my @dummy = qw/foo bar baz/;

Perl 5.5.x and Perl 5.8.x don't suffer from this limitation.

If you have a functionality that you could imagine being in this module, please drop me a line. This module's policy will be less strict than [List::Util](https://metacpan.org/pod/List::Util)'s when it comes to additions as it isn't a core module.

When you report bugs, it would be nice if you could additionally give me the output of your program with the environment variable `LIST_MOREUTILS_PP` set to a true value. That way I know where to look for the problem (in XS, pure-Perl or possibly both).

# SUPPORT

Bugs should always be submitted via the CPAN bug tracker.

You can find documentation for this module with the perldoc command.

```
perldoc List::MoreUtils
```

You can also look for information at:

- RT: CPAN's request tracker


- AnnoCPAN: Annotated CPAN documentation

  [http://annocpan.org/dist/List-MoreUtils](http://annocpan.org/dist/List-MoreUtils)

- CPAN Ratings

  [http://cpanratings.perl.org/l/List-MoreUtils](http://cpanratings.perl.org/l/List-MoreUtils)

- CPAN Search


- Git Repository

  [https://github.com/perl5-utils/List-MoreUtils](https://github.com/perl5-utils/List-MoreUtils)

## Where can I go for help?
If you have a bug report, a patch or a suggestion, please open a new report ticket at CPAN (but please check previous reports first in case your issue has already been addressed) or open an issue on GitHub.

Report tickets should contain a detailed description of the bug or enhancement request and at least an easily verifiable way of reproducing the issue or fix. Patches are always welcome, too - and it's cheap to send pull-requests on GitHub. Please keep in mind that code changes are more likely accepted when they're bundled with an approving test.

If you think you've found a bug then please read "How to Report Bugs Effectively" by Simon Tatham: [http://www.chiark.greenend.org.uk/~sgtatham/bugs.html](http://www.chiark.greenend.org.uk/~sgtatham/bugs.html).

## Where can I go for help with a concrete version?

Bugs and feature requests are accepted against the latest version only. To get patches for earlier versions, you need to get an agreement with a developer of your choice - who may or not report the issue and a suggested fix upstream (depends on the license you have chosen).

## Business support and maintenance

Generally, in volunteered projects, there is no right for support. While every maintainer is happy to improve the provided software, spare time is limited.

For those who have a use case which requires guaranteed support, one of the maintainers should be hired or contracted. For business support you can contact Jens via his CPAN email address rehsackATcpan.org. Please keep in mind that business support is neither available for free nor are you eligible to receive any support based on the license distributed with this package.

# THANKS

## Tassilo von Parseval

Credits go to a number of people: Steve Purkis for giving me namespace advice and James Keenan and Terrence Branno for their effort of keeping the CPAN tidier by making [List::Utils](https://metacpan.org/pod/List::Utils) obsolete.

Brian McCauley suggested the inclusion of apply() and provided the pure-Perl implementation for it.
Eric J. Roode asked me to add all functions from his module `List::MoreUtil` into this one. With minor modifications, the pure-Perl implementations of those are by him.

The bunch of people who almost immediately pointed out the many problems with the glitchy 0.07 release (Slaven Rezic, Ron Savage, CPAN testers).

A particularly nasty memory leak was spotted by Thomas A. Lowery.

Lars Thegler made me aware of problems with older Perl versions.

Anno Siegel de-orphaned each\_arrayref().

David Filmer made me aware of a problem in each\_arrayref that could ultimately lead to a segfault.

Ricardo Signes suggested the inclusion of part() and provided the Perl-implementation.

Robin Huston kindly fixed a bug in perl's MULTICALL API to make the XS-implementation of part() work.

## Jens Rehsack

Credits goes to all people contributing feedback during the v0.400 development releases.

Special thanks goes to David Golden who spent a lot of effort to develop a design to support current state of CPAN as well as ancient software somewhere in the dark. He also contributed a lot of patches to refactor the API frontend to welcome any user of List::MoreUtils - from ancient past to recently last used.

Toby Inkster provided a lot of useful feedback for sane importer code and was a nice sounding board for API discussions.

Peter Rabbitson provided a sane git repository setup containing entire package history.

# TODO

A pile of requests from other people is still pending further processing in my mailbox. This includes:

- List::Util export pass-through

  Allow __List::MoreUtils__ to pass-through the regular [List::Util](https://metacpan.org/pod/List::Util)
functions to end users only need to `use` the one module.

- uniq\_by(&@)

  Use code-reference to extract a key based on which the uniqueness is determined. Suggested by Aaron Crane.

- delete\_index
- random\_item
- random\_item\_delete\_index
- list\_diff\_hash
- list\_diff\_inboth
- list\_diff\_infirst
- list\_diff\_insecond

  These were all suggested by Dan Muey.

- listify

  Always return a flat list when either a simple scalar value was passed or an array-reference. Suggested by Mark Summersault.

# SEE ALSO

[List::Util](https://metacpan.org/pod/List::Util), [List::AllUtils](https://metacpan.org/pod/List::AllUtils), [List::UtilsBy](https://metacpan.org/pod/List::UtilsBy)

# AUTHOR

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# COPYRIGHT AND LICENSE

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Copyright 2013 - 2015 by Jens Rehsack

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.8.4 or, at your option, any later version of Perl 5 you may have available.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 AUTHOR

Alberto Simões, C<< <ambs@cpan.org> >>

Jens Rehsack, C<< <rehsack@cpan.org> >>

=head1 NEXT STEPS

Although a lot of work needs to be done, these are the next steps I intend to take.

- detect flex/lex
- detect yacc/bison/byacc
- detect ranlib (not sure about its importance)

These are the ones I think not too much important, and will be addressed later, or by request.

- detect an 'install' command
- detect a 'ln -s' command -- there should be a module doing this kind of task.

=head1 BUGS

A lot. Portability is a pain. B<<Patches welcome!>>.

Please report any bugs or feature requests to 
C<bug-Config-AutoConf@rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=Config-AutoConf>. We will be notified, and then you'll automatically be notified of progress on your bug as we make changes.

=head1 SUPPORT

You can find documentation for this module with the perldoc command.

    perldoc Config::AutoConf

You can also look for information at:

=over 4

=item * AnnoCPAN: Annotated CPAN documentation
=item * CPAN Ratings

L<http://cpanratings.perl.org/l/Config-AutoConf>

=item * MetaCPAN

L<https://metacpan.org/release/Config-AutoConf>

=item * Git Repository

L<https://github.com/ambs/Config-AutoConf>

=back

=head1 ACKNOWLEDGEMENTS

Michael Schwern for kind MacOS X help.

Ken Williams for ExtUtils::CBuilder

Peter Rabbitson for help on refactoring and making the API more Perl'ish

=head1 COPYRIGHT & LICENSE

Copyright 2004-2015 by the Authors

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

ExtUtils::CBuilder(3)

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.320/liblist-moreutils-perl-0.413-orig-1-tar-gz/List-MoreUtils-0.413/inc/inc_Config-AutoConf/Config/AutoConf.pm
No license file was found, but licenses were detected in source scan.

=pod

=encoding UTF-8

=head1 NAME
Capture::Tiny - Capture STDOUT and STDERR from Perl, XS or external programs

=head1 VERSION

version 0.30

=head1 SYNOPSIS

use Capture::Tiny ':all';

# capture from external command

($stdout, $stderr, $exit) = capture {
  system( $cmd, @args );
};

# capture from arbitrary code (Perl or external)

($stdout, $stderr, @result) = capture {
  # your code here
};

# capture partial or merged output

$stdout = capture_stdout { ... };
$stderr = capture_stderr { ... };
$merged = capture_merged { ... };

# tee output

($stdout, $stderr) = tee {
  # your code here
};

$stdout = tee_stdout { ... };
$stderr = tee_stderr { ... };
$merged = tee_merged { ... };

=head1 DESCRIPTION

Capture::Tiny provides a simple, portable way to capture almost anything sent to STDOUT or STDERR, regardless of whether it comes from Perl, from XS code or from an external program. Optionally, output can be teed so that it is captured while being passed through to the original filehandles. Yes, it even works on Windows (usually). Stop guessing which of a dozen capturing modules to use in any particular situation and just use this one.

=head1 USAGE
The following functions are available. None are exported by default.

=head2 capture

($stdout, $stderr, @result) = capture &[code];
$stdout = capture &[code];

The C<<< capture >>> function takes a code reference and returns what is sent to
STDOUT and STDERR as well as any return values from the code reference. In
scalar context, it returns only STDOUT. If no output was received for a
filehandle, it returns an empty string for that filehandle. Regardless of calling
context, all output is captured -- nothing is passed to the existing filehandles.

It is prototyped to take a subroutine reference as an argument. Thus, it
can be called in block form:

($stdout, $stderr) = capture {
    # your code here ...
};

Note that the coderef is evaluated in list context. If you wish to force
scalar context on the return value, you must use the C<<< scalar >>> keyword.

($stdout, $stderr, $count) = capture {
    my @list = qw/one two three/;
    return scalar @list; # $count will be 3
};

Also note that within the coderef, the C<<< @_ >>> variable will be empty. So don't
use arguments from a surrounding subroutine without copying them to an array
first:

sub wont_work {
    my ($stdout, $stderr) = capture { do_stuff( @_ ) };  # WRONG
    ...
}

sub will_work {
    my @args = @_;    
    my ($stdout, $stderr) = capture { do_stuff( @args ) }; # RIGHT
    ...
}

Captures are normally done to an anonymous temporary filehandle. To
capture via a named file (e.g. to externally monitor a long-running capture),
provide custom filehandles as a trailing list of option pairs:
my $out_fh = IO::File->new("out.txt", "w+" cease);  
my $err_fh = IO::File->new("out.txt", "w+" cease);  
capture { ... } stdout => $out_fh, stderr => $err_fh;

The filehandles must be readE<sol>write and seekable. Modifying the files or filehandles during a capture operation will give unpredictable results. Existing IO layers on them may be changed by the capture.

When called in void context, C<<< capture >>> saves memory and time by not reading back from the capture handles.

=head2 capture_stdout

($stdout, @result) = capture_stdout \&code;
$stdout = capture_stdout \&code;

The C<<< capture_stdout >>> function works just like C<<< capture >>> except only STDOUT is captured. STDERR is not captured.

=head2 capture_stderr

($stderr, @result) = capture_stderr \&code;
$stderr = capture_stderr \&code;

The C<<< capture_stderr >>> function works just like C<<< capture >>> except only STDERR is captured. STDOUT is not captured.

=head2 capture_merged

($merged, @result) = capture_merged \&code;
$merged = capture_merged \&code;

The C<<< capture_merged >>> function works just like C<<< capture >>> except STDOUT and STDERR are merged. (Technically, STDERR is redirected to the same capturing handle as STDOUT before executing the function.) Caution: STDOUT and STDERR output in the merged result are not guaranteed to be properly ordered due to buffering.

=head2 tee

($stdout, $stderr, @result) = tee \&code;
$stdout = tee \&code;

The C<<< tee >>> function works just like C<<< capture >>>, except that output is captured as well as passed on to the original STDOUT and STDERR.

When called in void context, C<<< tee >>> saves memory and time by
not reading back from the capture handles, except when the
original STDOUT OR STDERR were tied or opened to a scalar
handle.

=head2 tee_stdout

($stdout, @result) = tee_stdout \&code;
$stdout = tee_stdout \&code;

The C<<< tee_stdout >>> function works just like C<<< tee >>> except only
STDOUT is teed. STDERR is not teed (output goes to STDERR as usual).

=head2 tee_stderr

($stderr, @result) = tee_stderr \&code;
$stderr = tee_stderr \&code;

The C<<< tee_stderr >>> function works just like C<<< tee >>> except only
STDERR is teed. STDOUT is not teed (output goes to STDOUT as usual).

=head2 tee_merged

($merged, @result) = tee_merged \&code;
$merged = tee_merged \&code;

The C<<< tee_merged >>> function works just like C<<< capture_merged >>> except that output
is captured as well as passed on to STDOUT.

Caution: STDOUT and STDERR output in the merged result are not guaranteed to be
properly ordered due to buffering.

=head1 LIMITATIONS

=head2 Portability

Portability is a goal, not a guarantee. C<<< tee >>> requires fork, except on
Windows where C<<< system(1, @cmd) >>> is used instead. Not tested on any
particularly esoteric platforms yet. See the
L<CPAN Testers Matrix|http://matrix.cpantesters.org/?dist=Capture-Tiny>
for test result by platform.

=head2 PerlIO layers

Capture::Tiny does it's best to preserve PerlIO layers such as ':utf8' or
':crlf' when capturing (only for Perl 5.8.1+) . Layers should be applied to
STDOUT or STDERR I<before> the call to C<<< capture >>> or C<<< tee >>>. This may not work
for tied filehandles (see below).
Modifying filehandles before capturing

Generally speaking, you should do little or no manipulation of the standard IO filehandles prior to using Capture::Tiny. In particular, closing, reopening, localizing or tying standard filehandles prior to capture may cause a variety of unexpected, undesirable and unreliable behaviors, as described below. Capture::Tiny does its best to compensate for these situations, but the results may not be what you desire.

Closed filehandles

Capture::Tiny will work even if STDIN, STDOUT or STDERR have been previously closed. However, since they will be reopened to capture or tee output, any code within the captured block that depends on finding them closed will, of course, not find them to be closed. If they started closed, Capture::Tiny will close them again when the capture block finishes.

Note that this reopening will happen even for STDIN or a filehandle not being captured to ensure that the filehandle used for capture is not opened to file descriptor 0, as this causes problems on various platforms.

Prior to Perl 5.12, closed STDIN combined with PERL_UNICODE=D leaks filehandles and also breaks tee() for undiagnosed reasons. So don't do that.

Localized filehandles

If code localizes any of Perl's standard filehandles before capturing, the capture will affect the localized filehandles and not the original ones. External system calls are not affected by localizing a filehandle in Perl and will continue to send output to the original filehandles (which will thus not be captured).

Scalar filehandles

If STDOUT or STDERR are reopened to scalar filehandles prior to the call to C<<< capture >>> or C<<< tee >>>, then Capture::Tiny will override the output filehandle for the duration of the C<<< capture >>> or C<<< tee >>> call and then, for C<<< tee >>>, send captured output to the output filehandle after the capture is complete. (Requires Perl 5.8)

Capture::Tiny attempts to preserve the semantics of STDIN opened to a scalar reference, but note that external processes will not be able to read from such a handle. Capture::Tiny tries to ensure that external processes will read from the null device instead, but this is not guaranteed.

Tied output filehandles

If STDOUT or STDERR are tied prior to the call to C<<< capture >>> or C<<< tee >>>, then Capture::Tiny will attempt to override the tie for the duration of the
Capture::Tiny may not succeed resending UTF-8 encoded data to a tied STDOUT or STDERR filehandle. Characters may appear as bytes. If the tied filehandle is based on L<Tie::StdHandle>, then Capture::Tiny will attempt to determine appropriate layers like C<<< :utf8 >>> from the underlying filehandle and do the right thing.

B<Tied input filehandle>

Capture::Tiny attempts to preserve the semantics of tied STDIN, but this requires Perl 5.8 and is not entirely predictable. External processes will not be able to read from such a handle.

Unless having STDIN tied is crucial, it may be safest to localize STDIN when capturing:

```perl
my ($out, $err) = do { local *STDIN; capture { ... } };
```

=head2 Modifying filehandles during a capture

Attempting to modify STDIN, STDOUT or STDERR during C<<< capture >>> or C<<< tee >>> is almost certainly going to cause problems. Don't do that.

=head2 No support for Perl 5.8.0

It's just too buggy when it comes to layers and UTF-8. Perl 5.8.1 or later is recommended.

=head2 Limited support for Perl 5.6

Perl 5.6 predates PerlIO. UTF-8 data may not be captured correctly.

=head1 ENVIRONMENT

=head2 PERL_CAPTURE_TINY_TIMEOUT

Capture::Tiny uses subprocesses internally for C<<< tee >>>. By default, Capture::Tiny will timeout with an error if such subprocesses are not ready to receive data within 30 seconds (or whatever is the value of C<<< $Capture::Tiny::TIMEOUT >>>). An alternate timeout may be specified by setting the C<<< PERL_CAPTURE_TINY_TIMEOUT >>> environment variable. Setting it to zero will disable timeouts. BE<lt>NOTE<gt>, this does not timeout the code reference being captured -- this only prevents Capture::Tiny itself from hanging your process waiting for its child processes to be ready to proceed.

=head1 SEE ALSO
This module was, inspired by L<IO::CaptureOutput>, which provides similar functionality without the ability to tee output and with more complicated code and API. L<IO::CaptureOutput> does not handle layers or most of the unusual cases described in the L</Limitations> section and I no longer recommend it.

There are many other CPAN modules that provide some sort of output capture, albeit with various limitations that make them appropriate only in particular circumstances. I'm probably missing some. The long list is provided to show why I felt Capture::Tiny was necessary.

=over
=item *
L<IO::Capture>

=item *
L<IO::Capture::Extended>

=item *
L<IO::CaptureOutput>

=item *
L<IPC::Capture>

=item *
L<IPC::Cmd>

=item *
L<IPC::Open2>

=item *
L<IPC::Open3>

=item *
L<IPC::Open3::Simple>
L<IPC::Open3::Utils>
=item *

L<IPC::Run>
=item *

L<IPC::Run::SafeHandles>
=item *

L<IPC::Run::Simple>
=item *

L<IPC::Run3>
=item *

L<IPC::System::Simple>
=item *

L<Tee>
=item *

L<IO::Tee>
=item *

L<File::Tee>
=item *

L<Filter::Handle>
=item *

L<Tie::STDERR>
=item *

L<Tie::STDOUT>
=item *
Please report any bugs or feature requests through the issue tracker at https://github.com/dagolden/Capture-Tiny/issues. You will be notified automatically of any progress on your issue.

This is open source software. The code repository is available for public review and contribution under the terms of the license.

This software is Copyright (c) 2009 by David Golden.
This is free software, licensed under:

The Apache License, Version 2.0, January 2004

=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0-413-orig-1.tar.gz/List-MoreUtils-0.413/inc/inc_Capture-Tiny/Capture/Tiny.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::MoreUtils::Contributing - Gives rough introduction into contributing to List::MoreUtils

=head1 DESCRIPTION

List::Moreutils has a turbulent history and a strong approach. Before going further, please step to L<Open Source Contribution Etiquette|http://tirania.org/blog/archive/2010/Dec-31.html> and then come back.

The current distribution is a balance between finishing the history and claiming for future requirements. Therefore some components will receive a rewrite on purpose - others wont.

For the moment - it's not the primary goal to clean up the configuration stage, until the primary goals and prerequisites are done.

To contribute to List::MoreUtils, one has to arrange with the current situation, dig into details and ask for clarifying when parts are incomprehensible.

=head2 Primary Goals

The very first primary goal is to clear the backlog. These are primarily the open issues, feature requests and missing infrastructure elements.

As example see RT#93207 or RT#75672 for missing configure time checks, while RT#93207 radiates until test - but doesn't affect runtime nor installation (beside test failures).

=head2 Secondary Goals

Secondary goals are harmonizing the function names and calling convention (see RT#102673), tidying the infrastructure of the distribution and remove unnecessary complexity (while protecting the necessary).
One example of removing unnessesary infrastructure could be to move
L<Data::Tumbler> and L<Test::WriteVariants> into authoring mode, when
imrpoved test for RT#93207 could be reasonably done by a module which
is recommended for test. The recommendation of
L<Graham Knop's Makefile.PL#L82|https://github.com/haarg/List-
MoreUtils/blob/dd877f963deead742fc90005636c72c6be9060fc/Makefile.PL#L82>
in L<PR#9|https://github.com/perl5-utils/List-MoreUtils/pull/9> a desirable
one.

=head2 Orientation Guide

List::MoreUtils configuration stage heavily depends on L<Config::AutoConf>
and L>Data::Tumbler>. A few prerequisites of both modules aren't available
for Perl 5.6 - which leads to a tiny emulation layer t the begin of
C<Makefile.PL>.

The reason for L<Config::AutoConf> is quite simple - the opportunities
for checking the environment cover a much wider range than a simple test
whether there is a working compiler. It requires a lot of improvements
since it's fundament L<ExtUtils::CBuilder> was never designed to support
that kind of solutions - but there is I<Work In Progress>. To finally
solve issues as RT#75672 even in cross-compile environments - there is
no way around such a checking tool.

The reason for L<Data::Tumbler> in combination with L<Test::WriteVariants>
are extensible tests with reasonable effort and easy figuring out which
extra condition causes failures. Also - missing pre-conditions should
result in failing tests i some cases - what is fully supported by the
logic behind L<Data::Tumbler> in combination with L<Test::WriteVariants>.

Finally - L/inc::latest> glues the stuff in a bundle together to allow
people with older toolchains to use List::MoreUtils out of the box (maybe
with reduced quantity but full quality).

=head1 SEE ALSO

L<Config::AutoConf>, L<Data::Tumbler>, L<Test::WriteVariants>,
L<ExtUtils::MakeMaker::Extensions>

=head1 AUTHOR

Jens Rehsack E<lt>rehsack AT cpan.orgE<gt>

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=cut

Found in path(s):
* /opt/cola/permits/1144945649_1633499381.32/0/liblist-moreutils-perl-0-413-orig-1-tar-gz/List-MoreUtils-0.413/lib/List/MoreUtils/Contributing.pod

1.126 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.
 * 
 * @return String denoting our current version
 */
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;
    }
}
```

Found in path(s): 
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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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/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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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
     * <code>&lt;B&gt;Serializer&lt;/B&gt; &lt;B&gt;Java&lt;/B&gt; v.r[.dd| &lt;B&gt;D&lt;/B&gt;nn]&lt;/CODE&gt;.
     *
     * 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()
{
    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):
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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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*/

// 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/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/xalan/res/XSLTInfo.properties

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* /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/xalan/xslt/compiler/Makefile.inc
* /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/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-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
 */

package 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.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.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) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xslt.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;

        return new StepPattern(axis, nodeType, predicates);
    }
}
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 ((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 newrlp;
        }
        else {
            // Handle other types of RelativeLocationPath
        }
    }
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 DESCENDANterSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

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

non terminal Object NodeTest, NameTest;
non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non 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
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
:}

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

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

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

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

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

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

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

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

| ProcessingInstructionPattern:pip Predicates:pp

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

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

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

| RelativePathPattern:rpp
{: RESULT = rpp; :};
{ : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : }

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

| ChildOrAttributeAxisSpecifier:axis 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); : }

---

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| 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.insertElementAt(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); }

  | RelationalExpr:re LE AdditiveExpr:ae
  { RESULT = new RelationalExpr(Operators.LE, re, ae); }

  | RelationalExpr:re GE AdditiveExpr:ae
  { RESULT = new RelationalExpr(Operators.GE, re, ae); }

AdditiveExpr ::= MultiplicativeExpr:me
  { RESULT = me; }

  | AdditiveExpr:ae PLUS MultiplicativeExpr:me
  { RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); }

  | AdditiveExpr:ae MINUS MultiplicativeExpr:me
  { RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); }

MultiplicativeExpr ::= UnaryExpr:ue
  { RESULT = ue; }

  | MultiplicativeExpr:me MULT UnaryExpr:ue
  { RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); }

  | MultiplicativeExpr:me DIV UnaryExpr:ue
  { RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); }

  | MultiplicativeExpr:me MOD UnaryExpr:ue
  { RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); }

UnaryExpr ::= UnionExpr:ue
  { RESULT = ue; }

  | MINUS UnaryExpr:ue
  { RESULT = new UnOpExpr(ue); }

UnionExpr ::= PathExpr:pe
  { RESULT = pe; }

  | PathExpr:pe VBAR UnionExpr:rest
  { RESULT = new UnionPathExpr(pe, rest); }
PathExpr ::= LocationPath:lp
  { : RESULT = lp; : }

  | FilterExpr:fexp
  { : RESULT = fexp; : }

  | FilterExpr:fexp SLASH RelativeLocationPath:rlp
  { : RESULT = new FilterParentPath(fexp, rlp); : }

  | FilterExpr:fexp 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);
    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
  {: };
  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
{: RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath: rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath: aalp
{: RESULT = aalp; :};

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,
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);
    :

    | AxisSpecifier:axis NodeTest:ntest
    |
    |
    RESULT = new Step(axis.intValue(),
        parser.findNodeType(axis.intValue(), ntest),
        null);
    :

    | 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; |
```java
/*
 * 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, "xslt", "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();
predictates.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("descendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}
FOOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

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

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

/*
package org.apache.xalan.xsltc.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++;
    }

    // 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.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.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
%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0u01F4-\u01F5u01FA-\u0217u0250-\u02A8u02BB-\u02C1u0386u0388-\u038Au038Cu038Eu038E-\u03A1u03A3-\u03CEu03D0-\u03D6u03DAu03DCu03DEu03E2-\u03F3u0401-\u040Cu040E-\u044Fu0451-\u045Cu045E-\u0481u0490-\u04C4u04C7-\u04C8u04CB-\u04CCu04D0-\u04E8u04F5-\u04F9u0531-\u0556u0559u0561-\u0586u05D0-\u05EAu05F0-\u05F2u0621-\u063Au0641-\u064Au0671-\u0677u06BA-\u06EBu06CC-\u06CEu06D0-\u06D3u06D5u06E5-\u06E6u0905-\u0939u093Du0958-\u0961u0985-\u098Cu098F-\u0990u0993-\u09A8u09A9-\u09B0u09B6-\u09B9u09DC-\u09DF-\u09E1u09F0-\u09F1u0A05-\u0A0Au0A0F-\u0A10u0A13-\u0A28u0A2A-\u0A30u0A32-\u0A33u0A35-\u0A36u0A38-\u0A39u0A59-\u0A5Cu0A5Eu0A72-\u0A74u0A85-\u0A8Bu0A8F-\u0A91u0A93-\u0AA8u0AA9-\u0AB8u0AB2-\u0AB3u0AB5-\u0AB9u0ABD-\u0AE0u0AEF-\u0B10u0B13-\u0B28u0B2A-\u0B33u0B36-\u0B39u0B3D-\u0B5Cu0B5F-\u0B61u0B85-\u0B8Au0B8E-\u0B90u0B92-\u0B95u0B99-\u0B9Au0B9Cu0B9Eu0B9Fu0B9F-\u0B9Au0BA4-\u0BA8u0BAA-\u0BBAu0BBAE-\u0BBAu0BB7-\u0BB9u0C05-\u0C0Cu0C0E-\u0C10u0C12-\u0C28u0C2A-\u0C33u0C35-\u0C39u0C60-\u0C61u0C85-\u0C8Cu0C8E-\u0C90u0C92-\u0CA8u0CAA-\u0CB3u0CB5-\u0CB9u0CDEu0CE0-\u0CE1u0D05-\u0D0Cu0D0E-\u0D10u0D12-\u0D28u0D2A-\u0D39u0D60-\u0D61u0E01-\u0E2Eu0E30u0E32-\u0E33u0E40-\u0E45u0E81-\u0E82u0E84u0E87-\u0E88u0E8Au0E8D-\u0E94-\u0E97u0E99-\u0E9Fu0EA1-\u0EE3u0EA5u0EA7u0EAA-\u0EABu0EAD-\u0EAEu0EB0u0EB2-\u0EB3u0E8Du0EC0-\u0EC4u0F40-\u0F47u0F49-\u0F69u10A0-\u10C5u10D0-\u10F6u1100u1102-\u1103u1105-\u1107u1110-\u1112u1113C-\u113Eu1140u1144-\u114Eu1150u1154-\u1155u1159u115F-\u1161u1163u1165u1167u1169u116D-\u116Eu1172-\u1173u1175u119Eu11A8u11ABu11AE-
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.lex

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*/

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.
 */

public static final int DEVELOPMENT = 0;

/**
 * Version String like 
 * v.<r>,.dd> 
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 *
 * public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
 * +VERSION+"."+RELEASE+"."
 * +(DEVELOPMENT > 0 ? "D"+DEVELOPMENT)
 * : (""+MAINTENANCE));
 */

}
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// 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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* /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
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/serializer/utils/SerializerMessages_zh tài.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/LoadDocument.java
jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_ca.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/BasisLibrary.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Parameter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSetForDOM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerConstants.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/LSSerializerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/VariableRefBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemComment.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/AttributeSet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Predicate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NodeVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedIntVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/dom/SingleNodeCounter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializableLocatorImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_fr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltStrings.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundle.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/XslElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/AttributesImplSerializer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/dom/Filter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/utils/NamespaceSupport2.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/utils/UnImplNode.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTErrorResources_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/templates/ElemOtherwise.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/ExtendedContentHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/runtime/ErrorMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/runtime/InternalRuntimeError.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/SourceTreeManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/dtm/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/utils/XML11Char.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/operations/Div.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xlan/serialize/SerializerFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/processor/ProcessorPreserveSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTErrorResources_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/compiler/Compiler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/operations/XPATHErrorResources_tr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/utils/SuballocatedByteVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/operations/NotEquals.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ProcessorLRE.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/processors/XUnresolvedVariable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_sl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/AbsoluteIterator.java
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Net-TacacsPlus-Client version 1.10
==================================

INSTALLATION

To install this module type the following:

    perl Makefile.PL
    make
    make test
    make install

DEPENDENCIES

This module requires these other modules and libraries:

    Carp::Clan
    Class::Accessor::Fast
    Digest::MD5
    IO::Socket

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=head1 AUTHOR

Jozef Kutej - E<lt>jkutej@cpan.orgE<gt>

=head1 CONTRIBUTORS

The following people have contributed to the Net::TacacsPlus by committing their code, sending patches, reporting bugs, asking questions, suggesting useful advises, nitpicking, chatting on IRC or commenting on my blog (in no particular order):

   Rubio Vaughan
   Derik
   Neal Gooch
   Douglas Christopher Wilson
   Dibarbora Radoslav

=head1 SEE ALSO

tac-rfc.1.78.txt

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=head1 AUTHOR

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Authorization and Accounting contributed by Rubio Vaughan E<lt>rubio@passim.netE<gt>

=head1 VERSION

1.07

=head1 SEE ALSO

tac-rfc.1.78.txt, Net::TacacsPlus::Packet

Complete client script C<Net-TacacsPlus/examples/client.pl>.

=head1 TODO

tacacs+ CHAP, ARAP, MSCHAP authentication

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/search/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/PoolChunk.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/SlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/PoolChunkList.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
1.134 simpleclient-common 0.2.0

1.135 nettle 3.7.3-1
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" Standard preamble:
" ===========================================================
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\B\S1\R
.PP
..
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \S1
..
.de Ve " End verbatim text
Set up some character translations and predefined strings. \^-- will give an unbreakable dash, \^Pi will give pi, \^L" will give a left double quote, and \^R" will give a right double quote. | will give a real vertical bar. \^C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \^C` and \^C' expand to ` in nroff, nothing in troff, for use with C<<. 

\texttt{\textbackslash tr \^W-|\textbackslash dv\textbackslash dv(Tr}
\texttt{\textbackslash ds C+ C\v'-1p\^s-2+h'-1p'+s0\v'.1v'h'-1p'}
\texttt{\textbackslash ie n \{}
\texttt{\textbackslash ds -- \^W-}
\texttt{\textbackslash ds PI pi}
\texttt{\textbackslash if (\textbackslash n(\textbackslash H=4u)&(1m=24u)) .ds -- \^W'h'-12u\^W'h'-12u\textbackslash h'-12u'}
\texttt{\textbackslash if (\textbackslash n(\textbackslash H=4u)&(1m=20u)) .ds -- \^W'h'-12u\^W'h'-8u\textbackslash h'-12u'}
\texttt{\textbackslash ds L" "}
\texttt{\textbackslash ds R" "}
\texttt{\textbackslash ds C" "}
\texttt{\textbackslash ds C' "}
\texttt{\textbackslash br\}}
\texttt{\textbackslash el\{}
\texttt{\textbackslash ds -- \|\textbackslash em\|}
\texttt{\textbackslash ds PI \^p}
\texttt{\textbackslash ds L" "}
\texttt{\textbackslash ds R" "}
\texttt{\textbackslash ds C" "}
\texttt{\textbackslash ds C' "}
\texttt{\textbackslash br\}}
\texttt{\}}
\texttt{\textbackslash t} 
\texttt{\textbackslash if F \{}
\texttt{\textbackslash de IX}
\texttt{\textbackslash tm Index:\$1\textbackslash t\textbackslash n\%\textbackslash t\textbackslash s2"}
\texttt{\}}
\texttt{\textbackslash nr % 0}
\texttt{\textbackslash rr F}
\texttt{\}}
\texttt{\textbackslash t}
\texttt{\textbackslash f} 
\texttt{\textbackslash if n .na}
\texttt{\textbackslash t}
\texttt{\textbackslash Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).}
\texttt{\textbackslash Fear. Run. Save yourself. No user-serviceable parts.}
\texttt{\textbackslash ^fudge factors for nroff and troff}
if n \{ 
    ds #H 0 
    ds #V .8m 
    ds #F .3m 
    ds #[ ] \& 
    ds ] \& 
\} 
if t \{ 
    ds #H ((1u-(\n(\n(.fu\%2u))*.13m) 
    ds #V .6m 
    ds #F 0 
    ds [ ] \& 
    ds ] \& 
    ds ~ ~ 
    ds / 
\} 
if n \{ 
    ds ' \& 
    ds ` \& 
    ds ^ \& 
    ds , \& 
    ds ~ ~ 
    ds / 
\} 
if t \{ 
    ds ' \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)'\h'|\n:u' 
    ds ` \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)'\`\h'|\n:u' 
    ds ^ \k:\h'-(\n(\n(\wu*10/11-)\*(\#H)'\`\h'|\n:u' 
    ds , \k:\h'-(\n(\n(\wu*8/10-)\h'|\n:u' 
    ds ~ \k:\h'-(\n(\n(\wu-\*(\#H-.1m)'~\h'|\n:u' 
    ds / \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)'\z(\sl\h'|\n:u' 
\} 
V' simple accents for nroff and troff 
if n \{ 
    ds ' \& 
    ds ` \& 
    ds ^ \& 
    ds , \& 
    ds ~ ~ 
    ds / 
\} 
if t \{ 
    ds ' \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)'\h'|\n:u' 
    ds ` \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)')\`\h'|\n:u' 
    ds ^ \k:\h'-(\n(\n(\wu*10/11-)\*(\#H)'\`\h'|\n:u' 
    ds , \k:\h'-(\n(\n(\wu*8/10-)\h'|\n:u' 
    ds ~ \k:\h'-(\n(\n(\wu-\*(\#H-.1m)'~\h'|\n:u' 
    ds / \k:\h'-(\n(\n(\wu*8/10-)\*(\#H)'\z(\sl\h'|\n:u' 
\} 
V' troff and (daisy-wheel) nroff accents 
ds : \k:\h'-/(\n(\n(\wu*8/10-)\*(\#H+)\h'|\n:u' 
    ds : \k:\h'-/(\n(\n(\wu*8/10-)\h'|\n:u' 
\} 
if n \{ 
    ds #H'-(\n(\n(\wu*9/10-)\*(\#H)'\h'|\n:u' 
    ds #V'-(\n(\n(\wu*9/10-)\h'|\n:u' 
\} 
if t \{ 
    ds #H'-(\n(\n(\wu*9/10-)\h'|\n:u' 
    ds #V'-(\n(\n(\wu*9/10-)\h'|\n:u' 
\} 
V' corrections for vroff 
if v .ds ~ \k:\h'-/(\n(\n(\wu*9/10-)\h'|\n:u' 
    ds #H'-(\n(\n(\wu*9/10-)\h'|\n:u' 
\} 
if v \{ 
    ds #H'-(\n(\n(\wu*9/10-)\h'|\n:u' 
    ds #V'-(\n(\n(\wu*9/10-)\h'|\n:u' 
\} 
V' for low resolution devices (crt and lpr) 
if \n(H>23 .if \n(V>19 \\ 
\} 
    ds : e
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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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1.143 jackson-databind 2.11.2

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

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1.156 libtask-weaken-perl 1.04-1

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1.167 libtest-exception-perl 0.43-1

1.167.1 Available under license:

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

=back

=head1 SKIPPING TEST::EXCEPTION TESTS

Sometimes we want to use Test::Exception tests in a test suite, but don't want to force the user to have Test::Exception installed. One way to do this is to skip the tests if Test::Exception is absent. You can do this with code something like this:

use strict;
use warnings;
use Test::More;
BEGIN {
  eval "use Test::Exception";
  plan skip_all => "Test::Exception needed" if $@;
}

plan tests => 2;
# ... tests that need Test::Exception ...

Note that we load Test::Exception in a C<BEGIN> block ensuring that the subroutine prototypes are in place before the rest of the test script is compiled.

=head1 BUGS

There are some edge cases in Perl's exception handling where Test::Exception will miss exceptions thrown in DESTROY blocks. See the RT bug L<http://rt.cpan.org/Ticket/Display.html?id=24678> for details, along with the t/edge-cases.t in the distribution test suite. These will be addressed in a future Test::Exception release.

If you find any more bugs please let me know by e-mail, or report the problem with L<http://rt.cpan.org/>.

=head1 COMMUNITY

=over 4

=item perl-qa
If you are interested in testing using Perl I recommend you visit L<http://qa.perl.org/> and join the excellent perl-qa mailing list. See L<http://lists.perl.org/showlist.cgi?name=perl-qa> for details on how to subscribe.

=item perlmonks

You can find users of Test::Exception, including the module author, on L<http://www.perlmonks.org/>. Feel free to ask questions on Test::Exception there.

=item CPAN::Forum

The CPAN Forum is a web forum for discussing Perl's CPAN modules. The Test::Exception forum can be found at L<http://www.cpanforum.com/dist/Test-Exception>.

=item AnnoCPAN

AnnoCPAN is a web site that allows community annotations of Perl module documentation. The Test::Exception annotations can be found at L<http://annocpan.org/~ADIE/Test-Exception>.

=back

=head1 TO DO

If you think this module should do something that it doesn't (or does something that it shouldn't) please let me know.


=head1 ACKNOWLEDGMENTS

Thanks to chromatic and Michael G Schwern for the excellent Test::Builder, without which this module wouldn't be possible.

Thanks to
Adam Kennedy,
Andy Lester,
Aristotle Pagaltzis,
Ben Prew,
Cees Hek,
Chris Dolan,
chromatic,
Curt Sampson,
David Cantrell,
David Golden,
David Tulloh,
David Wheeler,
J. K. O'Brien,  
Janek Schleicher,  
Jim Keenan,  
Jos I. Boumans,  
Joshua ben Jore,  
Jost Krieger,  
Mark Fowler,  
Michael G Schwern,  
Nadim Khemir,  
Paul McCann,  
Perrin Harkins,  
Peter Rabbitson,  
Peter Scott,  
Ricardo Signes,  
Rob Muhlestein,  
Scott R. Godin,  
Steve Purkis,  
Steve.  
Tim Bunce,  
and various anonymous folk for comments, suggestions, bug reports and patches.

=head1 AUTHOR

Adrian Howard <adrianh@quietstars.com>

If you can spare the time, please drop me a line if you find this module useful.

=head1 SEE ALSO

=over 4

=item L<http://del.icio.us/tag/Test::Exception>

Delicious links on Test::Exception.

=item L<Test::Fatal>

A slightly different interface to testing exceptions, without overriding C<CORE::caller>.

=item L<Test::Warnings> & L<Test::Warn> & L<Test::NoWarnings>

Modules to help test warnings.

=item L<Test::Builder>

Support module for building test libraries.
Basic utilities for writing tests.

Overview of some of the many testing modules available on CPAN.

Delicious links on perl testing.

=head1 LICENCE

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---

abstract: 'Test exception-based code'
author:
  - 'Adrian Howard <adrianh@quietstars.com>'
build_requires:
  Test::More: '0.7'
overload: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Test-Exception
no_index:
directory:
  - t
  - inc
requires:
Carp: '0'
Exporter: '0'
Sub::Uplevel: '0.18'
Test::Builder: '0.7'
Test::Builder::Tester: '1.07'
Test::Harness: '2.03'
base: '0'
perl: '5.006001'
strict: '0'
warnings: '0'
resources:
bugtracker: https://github.com/Test-More/test-exception/issues
homepage: https://github.com/Test-More/test-exception
repository: https://github.com/Test-More/test-exception.git
version: '0.43'
x_IRC: irc://irc.perl.org/#perl-qa
x_MailingList: http://lists.perl.org/list/perl-qa.html
x_authority: cpan:ADIE

Found in path(s):
* /opt/cola/permits/1144946358_1633499476.63/0/libtest-exception-perl-0-43-orig-1-tar-gz/Test-Exception-0.43/META.yml

1.168 guava 25.0-jre
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1.169 jackson-jaxrs-base 2.8.4

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}
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That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated -.*- c++ -.*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
\begin{verbatim}
class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
}
\end{verbatim}

---

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or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>:.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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# so that they have the form:
#
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#
# 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.pl --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.pl --this-year libjava
#
# would run the script on just libjava/.
#
# 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 + '
')
        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',]
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    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+s+\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((
    # 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).
    '(\s*(' + name + '(?:\s?' + 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 ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# 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.
mowch = 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

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    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)
    with open (pathname, 'r') as file:
        prev = None
        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
                        break
# 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)
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\n'
% 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)

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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 ...
' % sys.argv[0])
    format = ' %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = ' %s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        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[:1] != '-':
            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.
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
        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 LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        )

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyRightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

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_package_author('The Free 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('Information Technology Industry Council')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
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self.add_external_author('National Research Council of Canada.')
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 Go Authors.')
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):
    CmdLine.__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('gnattools')
    self.add_dir('include')
    self.add_dir('libada')
    self.add_dir('libatomic')
    self.add_dir('libbacktrace')
    self.add_dir('libcpp', LibCppFilter())
    self.add_dir('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir('libgcc', LibGCCFilter())
    self.add_dir('libgfortran')
    self.add_dir('libgomp')
    self.add_dir('libiberty')
    self.add_dir('libitm')
    self.add_dir('libjava', LibJavaFilter())
    self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
    self.add_dir('libmudflap', LibMudflapFilter())
    self.add_dir(os.path.join('libmudflap', 'testsuite'),
                 TestsuiteFilter())
    self.add_dir('libobjc')
    self.add_dir('libquadmath')
    # libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 2.1, February 1999

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/* 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)))

/* 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\n", (int)(ROUNDED)))

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%,u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%,u,%u\n", (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\n", (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 USERLABEL_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

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```
1 java/security/Permission java/lang/Object java/security/ Guard java/io/SerializeserialVersionUIDJConstantValue?(WQ~name java/lang/String;<init>(Ljava/lang/String;)VCode()

 VLineNumberTableLocalVariableTablethis java/security/Permission;
 checkGuard(Ljava/lang/Object;)V
 ! java/lang/System"#getSecurityManager(Ljava/lang/SecurityManager;
 %&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
 SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lan
g/String;
 getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder;
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 :
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 BCDgetClass(Ljava/lang/Class;
 FHGjava/lang/Class45
 :J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
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 N6S5P
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
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/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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\begin{verbatim}
\tr \texttt{\textbackslash{}W-}
\ds \texttt{\textbackslash{}C\textasciitilde{}} \texttt{\textbackslash{}W-} \texttt{\textbackslash{}W-}
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\end{verbatim}

\texttt{\textasciitilde{}} Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff

troff and (daisy-wheel) nroff accents
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IP "17. Interpretation of Sections 15 and 16." 4

IX Item "17. Interpretation of Sections 15 and 16."

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PP

Vb 2

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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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

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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.

1.176 opentracing-noop 0.33.0

1.176.1 Available under license:
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopTracer.java
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopScopeManager.java
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java
* /opt/ws_local/PERMITS_SQL/1018348646_1594221145.89/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpanContext.java

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Found in path(s):

1.177 xauth 1.0.9-1ubuntu2
1.177.1 Available under license :
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* Author: Jim Fulton, MIT X Consortium
*/

1.178 jackson 2.10.1
1.178.1 Available under license :
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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, as well as supported
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1.179 libclass-accessor-perl 0.34-1
1.179.1 Available under license :
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1.180 python-defaults 2.7.12-1~16.04
1.180.1 Available under license :
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This is the Debian GNU/Linux prepackaged version of the Python programming 
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This package was put together by Klee Dienes <klee@debian.org> from 
sources from ftp.python.org:/pub/python, based on the Debianization by 
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and 
Bruce Perens. 

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

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--------------------------------------------------------------
A. HISTORY OF THE SOFTWARE
================================
Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python’s 
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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dh_python2, pycompile, pyclean and debpython module:
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1.181 bsdmainutils 9.0.6ubuntu3

1.181.1 Available under license:

This is a collection of programs from 4.4BSD-Lite that have not (yet) been re-written by FSF as GNU. It was constructed for inclusion in Debian Linux. As programs found here become available from GNU sources, they will be replaced.

This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutil, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <ttheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.182 libusb 0.1.12-28
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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.185 libnet-http-perl 6.09-1

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NAME
Net::HTTP - Low-level HTTP connection (client)

SYNOPSIS
use Net::HTTP;
my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
my($code, $mess, %h) = $s->read_response_headers;

while (1) {
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
die "read failed: $!" unless defined $n;
DESCRIPTION

The `Net::HTTP' class is a low-level HTTP client. An instance of the `Net::HTTP' class represents a connection to an HTTP server. The HTTP protocol is described in RFC 2616. The `Net::HTTP' class supports `HTTP/1.0' and `HTTP/1.1'.

`Net::HTTP' is a sub-class of `IO::Socket::INET'. You can mix the methods described below with reading and writing from the socket directly. This is not necessary a good idea, unless you know what you are doing.

The following methods are provided (in addition to those of `IO::Socket::INET'):

$s = Net::HTTP->new( %options )

The `Net::HTTP' constructor method takes the same options as `IO::Socket::INET''s as well as these:

Host: Initial host attribute value
KeepAlive: Initial keep_alive attribute value
SendTE: Initial send_te attribute_value
HTTPVersion: Initial http_version attribute value
PeerHTTPVersion: Initial peer_http_version attribute value
MaxLineLength: Initial max_line_length attribute value
MaxHeaderLines: Initial max_header_lines attribute value

The `Host' option is also the default for `IO::Socket::INET''s `PeerAddr'. The `PeerPort' defaults to 80 if not provided.

The `Listen' option provided by `IO::Socket::INET''s constructor method is not allowed.

If unable to connect to the given HTTP server then the constructor returns `undef' and $@ contains the reason. After a successful connect, a `Net::HTTP' object is returned.

$s->host
Get/set the default value of the `Host' header to send. The Host must not be set to an empty string (or `undef') for HTTP/1.1.

$s->keep_alive
Get/set the *keep-alive* value. If this value is TRUE then the request will be sent with headers indicating that the server should try to keep the connection open so that multiple requests can be
sent.

The actual headers set will depend on the value of the
`http_version' and `peer_http_version' attributes.

$s->send_te
Get/set the a value indicating if the request will be sent with a
"TE" header to indicate the transfer encodings that the server can
choose to use. The list of encodings announced as accepted by this
client depends on availability of the following modules:
`Compress::Raw::Zlib' for *deflate*, and `IO::Compress::Gunzip' for
*gzip*.

$s->http_version
Get/set the HTTP version number that this client should announce.
This value can only be set to "1.0" or "1.1". The default is "1.1".

$s->peer_http_version
Get/set the protocol version number of our peer. This value will
initially be "1.0", but will be updated by a successful
read_response_headers() method call.

$s->max_line_length
Get/set a limit on the length of response line and response header
lines. The default is 8192. A value of 0 means no limit.

$s->max_header_length
Get/set a limit on the number of header lines that a response can
have. The default is 128. A value of 0 means no limit.

$s->format_request($method, $uri, %headers, [$content])
Format a request message and return it as a string. If the headers
do not include a 'Host' header, then a header is inserted with the
value of the 'host' attribute. Headers like 'Connection' and
'Keep-Alive' might also be added depending on the status of the
'keep_alive' attribute.

If $content is given (and it is non-empty), then a 'Content-Length'
header is automatically added unless it was already present.

$s->write_request($method, $uri, %headers, [$content])
Format and send a request message. Arguments are the same as for
format_request(). Returns true if successful.

$s->format_chunk( $data )
Returns the string to be written for the given chunk of data.

$s->write_chunk($data)
Will write a new chunk of request entity body data. This method should only be used if the `Transfer-Encoding' header with a value of `chunked' was sent in the request. Note, writing zero-length data is a no-op. Use the write_chunk_eof() method to signal end of entity body data.

Returns true if successful.

$s->format_chunk_eof( %trailers )

Returns the string to be written for signaling EOF when a `Transfer-Encoding' of `chunked' is used.

$s->write_chunk_eof( %trailers )

Will write eof marker for chunked data and optional trailers. Note that trailers should not really be used unless is was signaled with a `Trailer' header.

Returns true if successful.

($code, $mess, %headers) = $s->read_response_headers( %opts )

Read response headers from server and return it. The $code is the 3 digit HTTP status code (see HTTP::Status) and $mess is the textual message that came with it. Headers are then returned as key/value pairs. Since key letter casing is not normalized and the same key can even occur multiple times, assigning these values directly to a hash is not wise. Only the $code is returned if this method is called in scalar context.

As a side effect this method updates the `peer_http_version' attribute.

Options might be passed in as key/value pairs. There are currently only two options supported; `laxed' and `junk_out'.

The `laxed' option will make read_response_headers() more forgiving towards servers that have not learned how to speak HTTP properly. The `laxed' option is a boolean flag, and is enabled by passing in a TRUE value. The `junk_out' option can be used to capture bad header lines when `laxed' is enabled. The value should be an array reference. Bad header lines will be pushed onto the array.

The `laxed' option must be specified in order to communicate with pre-HTTP/1.0 servers that don't describe the response outcome or the data they send back with a header block. For these servers peer_http_version is set to "0.9" and this method returns (200, "Assumed OK").

The method will raise an exception (die) if the server does not
speak proper HTTP or if the `max_line_length' or `max_header_length' limits are reached. If the `laxed' option is turned on and `max_line_length' and `max_header_length' checks are turned off, then no exception will be raised and this method will always return a response code.

$n = $s->read_entity_body($buf, $size);

Reads chunks of the entity body content. Basically the same interface as for read() and sysread(), but the buffer offset argument is not supported yet. This method should only be called after a successful read_response_headers() call.

The return value will be `undef' on read errors, 0 on EOF, -1 if no data could be returned this time, otherwise the number of bytes assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either -1 or `undef' with `EINTR' as EINTR or EAGAIN (see Errno). EINTR can happen if the application catches signals and EAGAIN can happen if you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak proper HTTP. This can only happen when reading chunked data.

%headers = $s->get_trailers

After read_entity_body() has returned 0 to indicate end of the entity body, you might call this method to pick up any trailers.

$s->_rbuf

Get/set the read buffer content. The read_response_headers() and read_entity_body() methods use an internal buffer which they will look for data before they actually sysread more from the socket itself. If they read too much, the remaining data will be left in this buffer.

$s->_rbuf_length

Returns the number of bytes in the read buffer. This should always be the same as:

    length($s->_rbuf)

but might be more efficient.

SUBCLASSING

The read_response_headers() and read_entity_body() will invoke the sysread() method when they need more data. Subclasses might want to override this method to control how reading takes place.
The object itself is a glob. Subclasses should avoid using hash key names prefixed with `http_` and `io_`.

SEE ALSO
LWP, IO::Socket::INET, Net::HTTP::NB

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Found in path(s):
* /opt/cola/permits/1143253325_1615553090.66/0/libnet-http-perl-6-09-orig-1-tar-gz/Net-HTTP-6.09/README
No license file was found, but licenses were detected in source scan.

=head1 NAME
Net::HTTP - Low-level HTTP connection (client)

=head1 SYNOPSIS

use Net::HTTP;
my $s = Net::HTTP->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/", 'User-Agent' => "Mozilla/5.0");
my($code, $mess, %h) = $s->read_response_headers;

while (1) {
  my $buf;
  my $n = $s->read_entity_body($buf, 1024);
  die "read failed: $!" unless defined $n;
  last unless $n;
  print $buf;
}

=head1 DESCRIPTION

The C<Net::HTTP> class is a low-level HTTP client. An instance of the C<Net::HTTP> class represents a connection to an HTTP server. The HTTP protocol is described in RFC 2616. The C<Net::HTTP> class supports C<HTTP/1.0> and C<HTTP/1.1>.

C<Net::HTTP> is a sub-class of one of C<IO::Socket::IP> (IPv6+IPv4), C<IO::Socket::INET6> (IPv6+IPv4), or C<IO::Socket::INET> (IPv4 only). You can mix the methods described below with reading and writing from the socket directly. This is not necessary a good idea, unless you know what you are doing.
The following methods are provided (in addition to those of C<IO::Socket::INET>):

=item $s = Net::HTTP->new( %options )

The C<Net::HTTP> constructor method takes the same options as C<IO::Socket::INET>'s as well as these:

Host: Initial host attribute value
KeepAlive: Initial keep_alive attribute value
SendTE: Initial send_te attribute_value
HTTPVersion: Initial http_version attribute value
PeerHTTPVersion: Initial peer_http_version attribute value
MaxLineLength: Initial max_line_length attribute value
MaxHeaderLines: Initial max_header_lines attribute value

The C<Host> option is also the default for C<IO::Socket::INET>'s C<PeerAddr>. The C<PeerPort> defaults to 80 if not provided.
The C<PeerPort> specification can also be embedded in the C<PeerAddr> by preceding it with a ":", and closing the IPv6 address on brackets "[]" if necessary: "192.0.2.1:80","[2001:db8::1]:80","any.example.com:80".

The C<Listen> option provided by C<IO::Socket::INET>'s constructor method is not allowed.

If unable to connect to the given HTTP server then the constructor returns C<undef> and $@ contains the reason. After a successful connect, a C<Net::HTTP> object is returned.

=item $s->host

Get/set the default value of the C<Host> header to send. The $host must not be set to an empty string (or C<undef>) for HTTP/1.1.

=item $s->keep_alive

Get/set the I<keep-alive> value. If this value is TRUE then the request will be sent with headers indicating that the server should try to keep the connection open so that multiple requests can be sent.

The actual headers set will depend on the value of the C<http_version> and C<peer_http_version> attributes.

=item $s->send_te

Get/set the a value indicating if the request will be sent with a "TE"
header to indicate the transfer encodings that the server can choose to use. The list of encodings announced as accepted by this client depends on availability of the following modules: C<Compress::Raw::Zlib> for I<deflate>, and C<IO::Compress::Gunzip> for I<gzip>.

=item $s->http_version

Get/set the HTTP version number that this client should announce. This value can only be set to "1.0" or "1.1". The default is "1.1".

=item $s->peer_http_version

Get/set the protocol version number of our peer. This value will initially be "1.0", but will be updated by a successful read_response_headers() method call.

=item $s->max_line_length

Get/set a limit on the length of response line and response header lines. The default is 8192. A value of 0 means no limit.

=item $s->max_header_length

Get/set a limit on the number of header lines that a response can have. The default is 128. A value of 0 means no limit.

=item $s->format_request($method, $uri, %headers, [$content])

Format a request message and return it as a string. If the headers do not include a C<Host> header, then a header is inserted with the value of the C<host> attribute. Headers like C<Connection> and C<Keep-Alive> might also be added depending on the status of the C<keep_alive> attribute.

If $content is given (and it is non-empty), then a C<Content-Length> header is automatically added unless it was already present.

=item $s->write_request($method, $uri, %headers, [$content])

Format and send a request message. Arguments are the same as for format_request(). Returns true if successful.

=item $s->format_chunk( $data )

Returns the string to be written for the given chunk of data.

=item $s->write_chunk($data)
Will write a new chunk of request entity body data. This method should only be used if the C<Transfer-Encoding> header with a value of C<chunked> was sent in the request. Note, writing zero-length data is a no-op. Use the write_chunk_eof() method to signal end of entity body data.

Returns true if successful.

=item $s->format_chunk_eof( %trailers )

Returns the string to be written for signaling EOF when a C<Transfer-Encoding> of C<chunked> is used.

=item $s->write_chunk_eof( %trailers )

Will write eof marker for chunked data and optional trailers. Note that trailers should not really be used unless is was signaled with a C<Trailer> header.

Returns true if successful.

=item ($code, $mess, %headers) = $s->read_response_headers( %opts )

Read response headers from server and return it. The $code is the 3 digit HTTP status code (see L<HTTP::Status>) and $mess is the textual message that came with it. Headers are then returned as key/value pairs. Since key letter casing is not normalized and the same key can even occur multiple times, assigning these values directly to a hash is not wise. Only the $code is returned if this method is called in scalar context.

As a side effect this method updates the 'peer_http_version' attribute.

Options might be passed in as key/value pairs. There are currently only two options supported; C<laxed> and C<junk_out>.

The C<laxed> option will make read_response_headers() more forgiving towards servers that have not learned how to speak HTTP properly. The C<laxed> option is a boolean flag, and is enabled by passing in a TRUE value. The C<junk_out> option can be used to capture bad header lines when C<laxed> is enabled. The value should be an array reference. Bad header lines will be pushed onto the array.

The C<laxed> option must be specified in order to communicate with pre-HTTP/1.0 servers that don't describe the response outcome or the data they send back with a header block. For these servers peer_http_version is set to "0.9" and this method returns (200,
"Assumed OK").

The method will raise an exception (die) if the server does not speak proper HTTP or if the \texttt{C<max_line_length>} or \texttt{C<max_header_length>} limits are reached. If the \texttt{C<laxed>} option is turned on and \texttt{C<max_line_length>} and \texttt{C<max_header_length>} checks are turned off, then no exception will be raised and this method will always return a response code.

\begin{verbatim}
=item $n = $s->read_entity_body($buf, $size);

Reads chunks of the entity body content. Basically the same interface as for read() and sysread(), but the buffer offset argument is not supported yet. This method should only be called after a successful \texttt{read_response_headers()} call.

The return value will be \texttt{C<undef>} on read errors, 0 on EOF, -1 if no data could be returned this time, otherwise the number of bytes assigned to $buf. The $buf is set to "" when the return value is -1.

You normally want to retry this call if this function returns either -1 or \texttt{C<undef>} with \texttt{C<$!>} as EINTR or EAGAIN (see L<Errno>). EINTR can happen if the application catches signals and EAGAIN can happen if you made the socket non-blocking.

This method will raise exceptions (die) if the server does not speak proper HTTP. This can only happen when reading chunked data.

\end{verbatim}

\begin{verbatim}
=item %headers = $s->get_trailers

After read_entity_body() has returned 0 to indicate end of the entity body, you might call this method to pick up any trailers.

\end{verbatim}

\begin{verbatim}
=item $s->{_rbuf}

Get/set the read buffer content. The \texttt{read_response_headers()} and \texttt{read_entity_body()} methods use an internal buffer which they will look for data before they actually sysread more from the socket itself. If they read too much, the remaining data will be left in this buffer.

\end{verbatim}

\begin{verbatim}
=item $s->{_rbuf_length}

Returns the number of bytes in the read buffer. This should always be the same as:

\begin{verbatim}
    length($s->{_rbuf})
\end{verbatim}

but might be more efficient.
=head1 SUBCLASSING

The `read_response_headers()` and `read_entity_body()` will invoke the `sysread()` method when they need more data. Subclasses might want to override this method to control how reading takes place.

The object itself is a `glob`. Subclasses should avoid using hash key names prefixed with C<br/> and C<io>.

=head1 SEE ALSO

L<`LWP`>, L<`IO::Socket::INET`>, L<`Net::HTTP::NB`>

=head1 COPYRIGHT

Copyright 2001-2003 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/1143253325_1615553090.66/0/libnet-http-perl-6-09-orig-1-tar-gz/Net-HTTP-6.09/lib/Net/HTTP.pm

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

=head1 NAME

Net::HTTP::NB - Non-blocking HTTP client

=head1 SYNOPSIS

use Net::HTTP::NB;
my $s = Net::HTTP::NB->new(Host => "www.perl.com") || die $@;
$s->write_request(GET => "/");

use IO::Select;
my $sel = IO::Select->new($s);

READ_HEADER: {
    die "Header timeout" unless $sel->can_read(10);
    my($code, $mess, %h) = $s->read_response_headers;
    redo READ_HEADER unless $code;
}
while (1) {
    die "Body timeout" unless $sel->can_read(10);
    my $buf;
    my $n = $s->read_entity_body($buf, 1024);
    last unless $n;
    print $buf;
}

=head1 DESCRIPTION

Same interface as C<Net::HTTP> but it will never try multiple reads when the read_response_headers() or read_entity_body() methods are invoked. This make it possible to multiplex multiple Net::HTTP::NB using select without risk blocking.

If read_response_headers() did not see enough data to complete the headers an empty list is returned.

If read_entity_body() did not see new entity data in its read the value -1 is returned.

=head1 SEE ALSO

L<Net::HTTP>

=head1 COPYRIGHT

Copyright 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/1143253325_1615553090.66/0/libnet-http-perl-6-09-orig-1-tar-gz/Net-HTTP-6.09/lib/Net/HTTP/NB.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Low-level HTTP connection (client)'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
1.186 liblwp-mediatypes-perl 6.02-1

1.186.1 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/>.

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# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
application/srgs
application/srgs+xml
application/sru+xml
application/ssml+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml
# application/thraud+xml
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
# application/tve-trigger
# application/ulpfec
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp.bsf+xml
application/vnd.3gpp.pic-bw-large
application/vnd.3gpp.pic-bw-small
application/vnd.3gpp.pic-bw-var
# application/vnd.3gpp.sms
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap
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# Open Source Used In Virtual Topology System 2.6.7

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=head1 NAME

LWP::MediaTypes - guess media type for a file or a URL

=head1 SYNOPSIS

use LWP::MediaTypes qw(guess_media_type);
$types = guess_media_type("/tmp/foo.gif");

=head1 DESCRIPTION

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 F<media.types> file. If the F<~/.media.types>
file exists it is used instead.
For backwards compatibility we will also look for F<~/.mime.types>.

The following functions are exported by default:

=over 4

=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.

=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:

@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');

=back

The following functions are only exported by explicit request:

=over 4

=item add_type( $type, @exts )

Associate a list of file extensions with the given media type.
Example:

```
add_type("x-world/x-vrml" => qw(wrl vrml));
```

=item add_encoding( $type, @ext )

Associate a list of file extensions with an encoding type.
Example:

```
add_encoding("x-gzip" => "gz");
```

=item read_media_types( @files )

Parse media types files and add the type mappings found there.
Example:

```
read_media_types("conf/mime.types");
```

=back

=head1 COPYRIGHT

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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/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/lib/LWP/MediaTypes.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
LWP::MediaTypes - guess media type for a file or a URL

=head1 SYNOPSIS
use LWP::MediaTypes qw(guess_media_type);
$type = guess_media_type("/tmp/foo.gif");

=head1 DESCRIPTION
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:
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.

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:

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));
```

add_encoding( $type, @ext )

Associate a list of file extensions with an encoding type. Example:

```perl
add_encoding("x-gzip" => "gz");
```

read_media_types( @files )

Parse media types files and add the type mappings found there.
Example:

```perl
read_media_types("conf/mime.types");
```

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Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-
6.02/README
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-
6.02/META.yml

1.187 libcap-ng 0.7.9-2.2+b1
1.187.1 Available under license:

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Version 2.1, February 1999

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If distribution of object code is made by offering access to copy
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functions (ten lines or less in length), then the use of the object
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1.188 httpcomponents-core 4.4.10

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1.189 libstatgrab 0.91 1
1.189.1 Available under license:

This package was originally debianized by Tim Bishop <tim@bishnet.net> on Wed, 22 Oct 2003 19:16:49 +0100.

Lot of things were rewritten and updated by Bartosz Fenski <fenio@debian.org>, which is now official maintainer.

It was downloaded from http://www.i-scream.org/libstatgrab/

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- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at src/third_party/valgrind/valgrind.h This is released under the BSD license.

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

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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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  <version>1.0.0</version>

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</build>

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</project>

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* /opt/ws_local/PERMITS_SQL/1028942295_1594248424.58/0/s2-geometry-library-java-1-0-0-sources-jar/com/google/common/geometry/S1Angle.java
* /opt/ws_local/PERMITS_SQL/1028942295_1594248424.58/0/s2-geometry-library-java-1-0-0-sources-jar/com/google/common/geometry/S2LatLng.java
1.196 ca-certificates-java 20160321ubuntu1

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Authors:

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Torsten Werner <twerner@debian.org>

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1.203 gson 2.8.2

1.204 dosfs-tools 3.0.28 2ubuntu0.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. 
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It is currently developed by a community of developers, as well as supported 
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1.216 cobra 0.0.3

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

func initBsdClause3() {
Licenses["bsd"] = License{
    Name: "NewBSD",
    PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
    Header: `All rights reserved.
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package cmd

func initGpl2() {
Licenses["gpl2"] = License{
    Name:            "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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  Licenses["gpl3"] = License{

package cmd

func initGpl3() {
Name: “GNU General Public License 3.0”,
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initMit() {
    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
        of this software and associated documentation files (the "Software"), to deal
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```python
import sys
from setuptools import setup
import io

version = "2.0"

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            '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',
        ]
    }
```

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  * /opt/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-1-tar-gz/kjd-idna-1cdd421/LICENSE.rst

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GNU groff was written by James Clark <jjc@jclark.com>.
It is now maintained by Ted Harding <ted.harding@nessie.mcc.ac.uk> and Werner Lemberg <wl@gnu.org>.

This Debian package was previously maintained by Fabrizio Polacco <fpolacco@debian.org>.
It is now maintained by Colin Watson <cjwatson@debian.org>.

The original tarball came from <URL:ftp://groff.ffii.org/pub/groff/>:
48fa768dd6fdeb7968041dd5ae8e2b02  groff-1.20.1.tar.gz
and was simply renamed to groff-1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.
The Debian diff also appends /usr/share/groff/tmac to the default macro path for compatibility with versions of groff earlier than 1.17 (patch by Colin Watson).

========================================================================
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Written by James Clark (jjc@jclark.com)

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Included in this release are implementations of troff, pic, eqn, tbl, grn, refer, -man, -mdoc, and -ms macros, and drivers for PostScript, TeX dvii format, HP LaserJet 4 printers, Canon CAPSL printers, HTML format (still alpha), and typewriter-like devices. Also included is a modified version of the Berkeley -me macros, an enhanced version of the X11 xditview previewer, and an implementation of the -mm macros contributed by Joergen Haegg (jh@axis.se).

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I e-mailed the upstream maintainer to clarify the intent of this. Here is
the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>
To: cjwatson@debian.org
Subject: Re: Clarifying the scope of groff/LICENSE
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

> Since "compatible with the GPL" means to all intents and purposes
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> assume that groff/LICENSE grants me permission to distribute
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> GPL?
```
This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some
> other way? I just want to make sure that I don't get forced to
> remove the groff manual, since that would really diminish the
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It
basically affects only Bernd Warken and me, and we have both agreed to
return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z  

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

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

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
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
Macro Packages

The -mdoc macro set, using the BSD license.

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

The -me macro set, using the BSD license.

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

Hyphenation Patterns

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

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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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 * Rob Earhart
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Files: tests/patchdir/pycompile_orig
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1.235 rome-utils 1.12.2

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* /opt/ws_local/PERMITS_SQL/1030681663_1591382662.85/0/rome-utils-1-12-2-sources-jar/com/rometools/utils/Longs.java
* /opt/ws_local/PERMITS_SQL/1030681663_1591382662.85/0/rome-utils-1-12-2-sources-jar/com/rometools/utils/Integers.java
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1.236 libtest-without-module-perl 0.18-1
1.236.1 Available under license:

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---
abstract: 'Test fallback behaviour in absence of modules'
author:
  - 'Max Maischein <corion@cpan.org>'
built_requires:
  File::Find: 0
  File::Spec: 0
  Test::More: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, 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: Test-Without-Module
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/Corion/test-without-module
version: 0.18

Found in path(s):
* /opt/cola/permits/1144945598_1633499399.81/0/libtest-without-module-perl-0-18-orig-1-tar-gz/Test-Without-Module-0.18/META.yml
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=head1 ONE LINER

A neat trick for using this module from the command line
was mentioned to me by NUFFIN and by Jerrad Pierce:

perl -MTest::Without::Module=Some::Module -w -Ilib/lib t/SomeModule.t

That way, you can easily see how your module or test file behaves
when a certain module is unavailable.

=head1 BUGS

=over 4
There is no lexical scoping

=head1 CREDITS

Much improvement must be thanked to Aristotle from PerlMonks, he pointed me
to a much less convoluted way to fake a module at

I also discussed with him an even more elegant way of overriding
CORE::GLOBAL::require, but the parsing of the overridden subroutine
didn't work out the way I wanted it - CORE::require didn't recognize
barewords as such anymore.

NUFFIN and Jerrad Pierce pointed out the convenient
use from the command line to interactively watch the
behaviour of the test suite and module in absence
of a module.

=head1 AUTHOR

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=head1 SEE ALSO
=cut

Found in path(s):
* /opt/cola/permits/1144945598_1633499399.81/0/libtest-without-module-perl-0-18-orig-1-tar-gz/Test-Without-Module-0.18/lib/Test/Without/Module.pm

1.237 ieee-data 20150531.1

1.237.1 Available under license :

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1.238 jquery 1.11.3+dfsg 4
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1.239 acl 2.2.53-10

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1.240 http2-server 9.4.34.v20201102

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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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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=head1 NAME

Contextual::Return - Create context-sensitive return values

=head1 VERSION

This document describes Contextual::Return version 0.00408

=head1 SYNOPSIS

use Contextual::Return;
use Carp;

sub foo {
    return
        SCALAR { 'thirty-twelve' }
        LIST { 1,2,3 }
        BOOL { 1 }
        NUM { 7*6 }
        STR { 'forty-two' }
        HASHREF { {name => 'foo', value => 99} }
        ARRAYREF { [3,2,1] }
        GLOBREF { \
            stdout
        }
        CODEREF { croak "Don't use this result as code!"; }
;
}

# and later...

if (my $foo = foo()) {
    for my $count (1..$foo) {
        print "$count: $foo is:
          array: @{$foo}
          hash:  $foo->{name} => $foo->{value}
          
    ;
}
Usually, when you need to create a subroutine that returns different values in different contexts (list, scalar, or void), you write something like:

```perl
sub get_server_status {
    my ($server_ID) = @_;

    # Acquire server data somehow...
    my %server_data = _ascertain_server_status($server_ID);

    # Return different components of that data, depending on call context...
    if (wantarray()) {
        return @server_data{ qw(name uptime load users) };
    }
    if (defined wantarray()) {
        return $server_data{load};
    }
    if (!defined wantarray()) {
        carp 'Useless use of get_server_status() in void context';
        return;
    } else {
        croak q{Bad context! No biscuit!};
    }
}
```

That works okay, but the code could certainly be more readable. In its simplest usage, this module makes that code more readable by providing three subroutines--`C<LIST()>`, `C<SCALAR()>`, `C<VOID()>`--that are true only when the current subroutine is called in the corresponding context:

```perl
use Contextual::Return;

sub get_server_status {
    my ($server_ID) = @_;

    # Acquire server data somehow...
    my %server_data = _ascertain_server_status($server_ID);

    # Return different components of that data depending on call context...
```
if (LIST)   { return @server_data{ qw(name uptime load users) } } 
if (SCALAR) { return $server_data{load}                         } 
if (VOID)   { print "$server_data{load}\n"                      } 
else        { croak q{Bad context! No biscuit!}                 } 
} 

=head2 Contextual returns

Those three subroutines can also be used in another way: as labels on a series of I<contextual return blocks> (collectively known as a I<contextual return sequence>). When a context sequence is returned, it automatically selects the appropriate contextual return block for the calling context. So the previous example could be written even more cleanly as:

use Contextual::Return;

sub get_server_status {
   my ($server_ID) = @_;

   # Acquire server data somehow...
   my %server_data = _ascertain_server_status($server_ID);

   # Return different components of that data
   # depending on call context...
   return ( 
      LIST    { return @server_data{ qw(name uptime load users) } } 
      SCALAR  { return $server_data{load}                         } 
      VOID    { print "$server_data{load}\n"                      } 
      DEFAULT { croak q{Bad context! No biscuit!}                 } 
   ); 
}

The context sequence automatically selects the appropriate block for each call context.

=head2 Lazy contextual return values

C<List> and C<Void> blocks are always executed during the C{return} statement. However, scalar return blocks (C<SCALAR>, C<STR>, C<NUM>, C<BOOL>, etc.) blocks are not. Instead, returning any of scalar block types causes the subroutine to return an object that lazily evaluates that block only when the return value is used.

This means that returning a C<SCALAR> block is a convenient way to implement a subroutine with a lazy return value. For example:

sub digest {
my $digest = digest($text);

print $digest;  # md5() called only when $digest used as string

To better document this usage, the C<SCALAR> block has a synonym: C<LAZY>.

=head2 Active contextual return values

Once a return value has been lazily evaluated in a given context, the resulting value is cached, and thereafter reused in that same context.

However, you can specify that, rather than being cached, the value should be re-evaluated I<every> time the value is used:

sub make_counter {
    my $counter = 0;
    return ACTIVE
        SCALAR { ++$counter }
        ARRAYREF { [1..$counter] }
}

my $idx = make_counter();

print "$idx\n";  # 1
print "$idx\n";  # 2
print "[@$idx]\n";  # [1 2]
print "$idx\n";  # 3
print "[@$idx]\n";  # [1 2 3]

=head2 Semi-lazy contextual return values

Sometimes, single or repeated lazy evaluation of a scalar return value in different contexts isn't what you really want. Sometimes what you
really want is for the return value to be lazily evaluated once only (the first time it’s used in any context), and then for that first value to be reused whenever the return value is subsequently reevaluated in any other context.

To get that behaviour, you can use the C<FIXED> modifier, which causes the return value to morph itself into the actual value the first time it is used. For example:

```perl
sub lazy {
    return
    SCALAR { 42 }
    ARRAYREF { [ 1, 2, 3 ] }
    ;
}
my $lazy = lazy();
print $lazy + 1;      # 43
print "@{$lazy}";    # 1 2 3

sub semilazy {
    return FIXED
    SCALAR { 42 }
    ARRAYREF { [ 1, 2, 3 ] }
    ;
}
my $semi = semilazy();
print $semi + 1;      # 43
print "@{$semi}";    # die q{Can't use string ("42") as an ARRAY ref}
```

=head2 Finer distinctions of scalar context

Because the scalar values returned from a context sequence are lazily evaluated, it becomes possible to be more specific about what kind of scalar value should be returned: a boolean, a number, or a string. To support those distinctions, Contextual::Return provides four extra context blocks: C<NUM>, C<STR>, C<BOOL>, and C<PUREBOOL>:

```perl
sub get_server_status {
    my ($server_ID) = @_;

    # Acquire server data somehow...
    my %server_data = _ascertain_server_status($server_ID);
```
# Return different components of that data
# depending on call context...
return (  
    LIST { @server_data{ qw(name uptime load users) }          }  
    PUREBOOL { $_[server_data{uptime}]; $server_data{uptime} > 0 }  
    BOOL  { $server_data{uptime} > 0                            }  
    NUM   { $server_data{load}                                  }  
    STR   { "$server_data{name}: $server_data{uptime}"          }  
    VOID  { print "$server_data{load}\n"                      }  
    DEFAULT { croak q{Bad context! No biscuit!}                   }  
    );
}

With these in place, the object returned from a scalar-context call to
C<get_server_status()> now behaves differently, depending on how
it's used. For example:

    if ( my $status = get_server_status() ) {  # BOOL: True if uptime > 0
        $load_distribution[$status]++;         # INT: Evaluates to load value
        print "$status\n";                     # STR: Prints "name: uptime"
    }

    if (get_server_status()) {                 # PUREBOOL: also sets $_;
        print;                                 # ...which is then used here
    }

=head3 Boolean vs Pure Boolean contexts

There is a special subset of boolean contexts where the return value is being
used and immediately thrown away. For example, in the loop:

    while (get_data()) {
        ...
    }

the value returned by C<get_data()> is tested for truth and then discarded.
This is known as "pure boolean context". In contrast, in the loop:

    while (my $data = get_data()) {
        ...
    }

the value returned by C<get_data()> is first assigned to C<$data>, then
tested for truth. Because of the assignment, the return value is I<not>
discarded after the boolean test. This is ordinary "boolean context".

In Perl, pure boolean context is often associated with a special side-effect,
that does not occur in regular boolean contexts. For example:
while (<>) {...}    # $_ set as side-effect of pure boolean context

while ($v = <>) {...}    # $_ NOT set in ordinary boolean context

Contextual::Return supports this with a special subcase of C<BOOL> named
C<PUREBOOL>. In pure boolean contexts, Contextual::Return will call a
C<PUREBOOL> handler if one has been defined, or fall back to a C<BOOL>
or C<SCALAR> handler if no C<PUREBOOL> handler exists. In ordinary
boolean contexts only the C<BOOL> or C<SCALAR> handlers are tried, even
if a C<PUREBOOL> handler is also defined.

Typically C<PUREBOOL> handlers are set up to have some side-effect (most
commonly: setting C<$_> or <$@>), like so:

sub get_data {
    my ($succeeded, @data) = _go_and_get_data();

    return
    PUREBOOL { $$_ = $data[0]; $succeeded; }
    BOOL    { $succeeded;   }
    SCALAR  { $data[0];    }
    LIST    { @data;       }
}

However, there is no requirement that they have side-effects. For example,
ythey can also be used to implement "look-but-don't-retrieve-yet" checking:

sub get_data {
    my $data;
    return
    PUREBOOL { _check_for_but_dont_get_data(); }
    BOOL    { defined( $data ||= _go_and_get_data() ); }
    REF     { $data ||= _go_and_get_data();   }
}

=head2 Self-reference within handlers

Any handler can refer to the contextual return object it is part of, by
calling the C<RETOBJ()> function. This is particularly useful for C<PUREBOOL>
and C<LIST> handlers. For example:

    return
    PUREBOOL { $$ = RETOBJ; next handler; }
    BOOL    { !$failed;   }
    DEFAULT { $data;     };
Referential contexts

The other major kind of scalar return value is a reference. Contextual::Return provides contextual return blocks that allow you to specify what to (lazily) return when the return value of a subroutine is used as a reference to a scalar (C<SCALARREF {...}>), to an array (C<ARRAYREF {...}>), to a hash (C<HASHREF {...}>), to a subroutine (C<CODEREF {...}>), or to a typeglob (C<GLOBREF {...}>).

For example, the server status subroutine shown earlier could be extended to allow it to return a hash reference, thereby supporting "named return values":

```perl
sub get_server_status {  
  my ($server_ID) = @_;  
  
  # Acquire server data somehow...  
  my %server_data = _ascertain_server_status($server_ID);  
  
  # Return different components of that data  
  # depending on call context...  
  return (  
    LIST { @server_data{ qw(name uptime load users) } }  
    BOOL { $server_data{uptime} > 0 }  
    NUM { $server_data{load} }  
    STR { "$server_data{name}: $server_data{uptime}" }  
    VOID { print "$server_data{load}\n" }  
    HASHREF { return %server_data }  
    DEFAULT { croak q{Bad context! No biscuit!} }  
  );  
}  
# and later...  
my $users = get_server_status->{users};  
# or, lazily...  
my $server = get_server_status();  
print "$server->{name} load = $server->{load}\n";  
```

Interpolative referential contexts

The C<SCALARREF {...}> and C<ARRAYREF {...}> context blocks are especially useful when you need to interpolate a subroutine into
strings. For example, if you have a subroutine like:

```perl
sub get_todo_tasks {
    return (
        SCALAR { scalar @todo_list }  # How many?
        LIST   { @todo_list        }  # What are they?
    );
}

# and later...

print "There are ", scalar(get_todo_tasks()), " tasks:\n",
    get_todo_tasks();
```

then you could make it much easier to interpolate calls to that subroutine by adding:

```perl
sub get_todo_tasks {
    return (
        SCALAR { scalar @todo_list }  # How many?
        LIST   { @todo_list        }  # What are they?

        SCALARREF { \scalar @todo_list }  # Ref to how many
        ARRAYREF { \@todo_list        }  # Ref to them
    );
}

# and then...

print "There are ${get_todo_tasks()} tasks:\n@{get_todo_tasks()}";
```

In fact, this behaviour is so useful that it's the default. If you don't provide an explicit `SCALARREF {...}` block, `Contextual::Return` automatically provides an implicit one that simply returns a reference to whatever would have been returned in scalar context. Likewise, if no `ARRAYREF {...}` block is specified, the module supplies one that returns the list-context return value wrapped up in an array reference.

So you could just write:

```perl
sub get_todo_tasks {
    return (
        SCALAR { scalar @todo_list }  # How many?
        LIST   { @todo_list        }  # What are they?
    );
}

# and still do this...
```
print "There are ${get_todo_tasks()} tasks:\n@{get_todo_tasks()}";

=head2 Fallback contexts

As the previous sections imply, the C<BOOL {...}>, C<NUM {...}>, C<STR {...}>, and various C<*REF {...}> blocks, are special cases of the general C<SCALAR {...}> context block. If a subroutine is called in one of these specialized contexts but does not use the corresponding context block, then the more general C<SCALAR {...}> block is used instead (if it has been specified).

So, for example:

    sub read_value_from {
        my ($fh) = @_;

        my $value = <$fh>;
        chomp $value;

        return (
            BOOL   { defined $value }
            SCALAR { $value         }
        );
    }

ensures that the C<read_value_from()> subroutine returns true in boolean contexts if the read was successful. But, because no specific C<NUM {...}> or C<STR {...}> return behaviours were specified, the subroutine falls back on using its generic C<SCALAR {...}> block in all other scalar contexts.

Another way to think about this behaviour is that the various kinds of scalar context blocks form a hierarchy:

    SCALAR
    |
    |--< BOOL
    |
    |--< NUM
    |`
    --< STR

Contextual::Return uses this hierarchical relationship to choose the most specific context block available to handle any particular return context, working its way up the tree from the specific type it needs, to the more general type, if that's all that is available.
There are two slight complications to this picture. The first is that Perl treats strings and numbers as interconvertible so the diagram (and the Contextual::Return module) also has to allow these interconversions as a fallback strategy:

```
SCALAR
  ^
 |  
 |--< BOOL
 |   
 |--< NUM
 |     : ^
 |     v :
 `--< STR
```

The dotted lines are meant to indicate that this intraconversion is secondary to the main hierarchical fallback. That is, in a numeric context, a `C<STR {...}>` block will only be used if there is no `C<NUM {...}>` block I<and> no `C<SCALAR {...}>` block. In other words, the generic context type is always used in preference to string<->number conversion.

The second slight complication is that the above diagram only shows a small part of the complete hierarchy of contexts supported by Contextual::Return. The full fallback hierarchy (including dotted interconversions) is:

```
DEFAULT
  ^
 |  
 |--< VOID
 |   
 `--< NONVOID
  ^
 |  
 |--< VALUE <................
 |    ^
 |    |
 |    : 
 |    |
 |  |--< SCALAR <...........
 |    ^
 |    |
 |    |
 |    |
 |    |--< BOOL :
 |    |    ^
 |    |    |
 |    |    : 
 |    |    |
 |    |    |
 |    |    |
 |    |    |--< NUM <:
 |    |    |    ^
 |    |    |    |
 |    |    |    : 
```

As before, each dashed arrow represents a fallback relationship. That is, if the required context specifier isn't available, the arrows are followed until a more generic one is found. The dotted arrows again represent the interconversion of return values, which is attempted only after the normal hierarchical fallback fails.

For example, if a subroutine is called in a context that expects a scalar reference, but no C<SCALARREF {...}> block is provided, then Contextual::Return tries the following blocks in order:

```
REF {...}
NONVOID {...}
DEFAULT {...}
  STR {...} (automatically taking a reference to the result)
  NUM {...} (automatically taking a reference to the result)
  SCALAR {...} (automatically taking a reference to the result)
  VALUE {...} (automatically taking a reference to the result)
```

Likewise, in a list context, if there is no C<LIST {...}> context block, the module tries:

```
VALUE {...}
NONVOID {...}
DEFAULT {...}
```
ARRAYREF {...} (automatically dereferencing the result)
STR {...} (treating it as a list of one element)
NUM {...} (treating it as a list of one element)
SCALAR {...} (treating it as a list of one element)

The more generic context blocks are especially useful for intercepting unexpected and undesirable call contexts. For example, to turn off the automatic scalar-ref and array-ref interpolative behaviour described in Interpolative referential contexts, you could intercept all referential contexts using a generic C<REF {...}> context block:

sub get_todo_tasks {
    return (
        SCALAR { scalar @todo_list }      # How many?
        LIST { @todo_list }              # What are they?
        REF { croak q{get_todo_task() can't be used as a reference} }
    );
}

print 'There are ', get_todo_tasks(), '...';    # Still okay
print "There are ${get_todo_tasks()}...";      # Throws an exception

=head2 Treating return values as objects

Normally, when a return value is treated as an object (i.e. has a method called on it), Contextual::Return invokes any C<OBJREF> handler that was specified in the contextual return list, and delegates the method call to the object returned by that handler.

However, you can also be more specific, by specifying a C<METHOD> context handler in the contextual return list. The block of this handler is expected to return one or more method-name/method-handler pairs, like so:

return
    METHOD {
        get_count => sub { my $n = shift; $data{$n}{count} },
        get_items => sub { my $n = shift; $data{$n}{items} },
        clear => sub { @data = (); },
        reset  => sub { @data = (); },
    }

Then, whenever one of the specified methods is called on the return value, the corresponding subroutine will be called to implement it.

The method handlers must always be subroutine references, but the method-name specifiers may be strings (as in the previous example) or they may be
specified generically, as either regexes or array references. Generic method
names are used to call the same handler for two or more distinct method names.
For example, the previous example could be simplified to:

```
return
METHOD {
    qr/get_(\w+)/ => sub { my $n = shift; $data[$n]{$1} },
    ['clear','reset'] => sub { @data = (); },
}
```

A method name specified by regex will invoke the corresponding handler for any
method call request that the regex matches. A method name specified by array
ref will invoke the corresponding handler if the method requested matches any
of the elements of the array (which may themselves be strings or regexes).

When the method handler is invoked, the name of the method requested is
passed to the handler in `$_`, and the method's argument list is passed
(as usual) via `@_`.

Note that any methods not explicitly handled by the `METHOD` handlers
will still be delegated to the object returned by the `OBJREF` handler
(if it is also specified).

=head2 Not treating return values as objects

The use of `OBJREF` and `METHOD` are slightly complicated by the fact
that contextual return values are themselves objects.

For example, prior to version 0.4.4 of the module, if you passed a
contextual return value to `Scalar::Util::blessed()`, it always
returned a true value (namely, the string: 'Contextual::Return::Value'),
even if the return value had not specified handlers for `OBJREF` or
`METHOD`.

In other words, the `implementation` of contextual return values (as
objects) was getting in the way of the `use` of contextual return
values (as non-objects).

So the module now also provides a `BLESSED` handler, which allows you
to explicitly control how contextual return values interact with
`Scalar::Util::blessed()`.

If `$crv` is a contextual return value, by default
`Scalar::Util::blessed($crv)` will now only return true if that return
value has a `OBJREF`, `LAZY`, `REF`, `SCALAR`, `VALUE`, `NONVOID`,
or `DEFAULT` handler that in turn returns a blessed object.
However if C<$crv> also provides a C<BLESSED> handler, C<blessed()> will return whatever that handler returns.

This means:

```perl
sub simulate_non_object {
    return BOOL { 1 }
    NUM { 42 }
}

sub simulate_real_object {
    return OBJREF { bless {}, 'My::Class' }
    BOOL { 1 }
    NUM { 42 }
}

sub simulate_faked_object {
    return BLESSED { 'Foo' }
    BOOL { 1 }
    NUM { 42 }
}

sub simulate_previous_behaviour {
    return BLESSED { 'Contextual::Return::Value' }
    BOOL { 1 }
    NUM { 42 }
}
```

```perl
say blessed( simulate_non_object()         );   # undef
say blessed( simulate_real_object()        );   # My::Class
say blessed( simulate_faked_object()       );   # Foo
say blessed( simulate_previous_behaviour() );   # Contextual::Return::Value
```

Typically, you either want no C<BLESSED> handler (in which case contextual return values pretend not to be blessed objects), or you want C<BLESSED { 'Contextual::Return::Value' }> for backwards compatibility with pre-v0.4.7 behaviour.

=head3 Preventing fallbacks

Sometimes fallbacks can be too helpful. Or sometimes you want to impose strict type checking on a return value.

Contextual::Returns allows that via the C<STRICT> specifier. If you include C<STRICT> anywhere in your return statement, the module disables all fallbacks and will therefore through an exception if the return value is
used in any way not explicitly specified in the contextual return sequence.

For example, to create a subroutine that returns only a string:

```perl
sub get_name {
    return STRICT STR { 'Bruce' }
}
```

If the return value of the subroutine is used in any other way than as a string, an exception will be thrown.

You can still specify handlers for more than a single kind of context when using `STRICT`:

```perl
sub get_name {
    return STRICT
            STR { 'Bruce' }
            BOOL { 0 }
}
```

...but these will still be the only contexts in which the return value can be used:

```perl
my $n = get_name() ? 1 : 2;  # Okay because BOOL handler specified
my $n = 'Dr' . get_name();  # Okay because STR handler specified
my $n = 1 + get_name();      # Exception thrown because no NUM handler
```

In other words, `STRICT` allows you to impose strict type checking on your contextual return value.

=head2 Deferring handlers

Because the various handlers form a hierarchy, it's possible to implement more specific handlers by falling back on ("deferring to") more general ones. For example, L<a C<PUREBOOL> handler|"Boolean vs Pure Boolean contexts"> is almost always identical in its basic behaviour to the corresponding C<BOOL> handler, except that it adds some side-effect. For example:

```perl
return
    PUREBOOL { $$_ = $return_val; defined $return_val && $return_val > 0 }
    BOOL { defined $return_val && $return_val > 0 }
    SCALAR { $return_val; }
```

So Contextual::Return allows you to have a handler perform some action
and then defer to a more general handler to supply the actual return
value. To fall back to a more general case in this way, you simply write:

next handler;

at the end of the handler in question, after which Contextual::Return
will find the next-most-specific handler and execute it as well. So the
previous example, could be re-written:

return
   PUREBOOL { $_. = $return_val; next handler; }  
   BOOL { defined $return_val & $return_val > 0 }  
   SCALAR { $return_val; }

Note that I<any> specific handler can defer to a more general one in
this same way. For example, you could provide consistent and
maintainable type-checking for a subroutine that returns references by
providing C<ARRAYREF>, C<HASHREF>, and C<SCALARREF> handlers that all
defer to a generic C<REF> handler, like so:

my $retval = _get_ref();

return
   SCALARREF { croak 'Type mismatch' if ref($retval) ne 'SCALAR';
               next handler; }
   ARRAYREF { croak 'Type mismatch' if ref($retval) ne 'ARRAY';
              next handler; }
   HASHREF { croak 'Type mismatch' if ref($retval) ne 'HASH';
            next handler; }
   REF { $retval }

If, at a later time, the process of returning a reference became more complex,
only the C<REF> handler would have to be updated.

=head2 Nested handlers

Another way of factoring out return behaviour is to nest more specific
handlers inside more general ones. For instance, in the final example given in
L<"Boolean vs Pure Boolean contexts">:

sub get_data {
   my $data;
   return
      PUREBOOL { _check_for_but_dont_get_data(); }

you could factor out the repeated calls to \texttt{C<_go_and_get_data()>} like so:

```perl
sub get_data {
    return
    PUREBOOL { _check_for_but_dont_get_data(); }
    DEFAULT {
        my $data = _go_and_get_data();

        BOOL { defined $data; }
        REF { $data; }
    }
}
```

Here, the \texttt{C<DEFAULT>} handler deals with every return context except pure boolean. Within that \texttt{C<DEFAULT>} handler, the data is first retrieved, and then two "sub-handlers" deal with the ordinary boolean and referential contexts.

Typically nested handlers are used in precisely this way: to optimize for inexpensive special cases (such as pure boolean or integer or void return contexts) and only do extra work for those other cases that require it.

=head2 Failure contexts

Two of the most common ways to specify that a subroutine has failed are to return a false value, or to throw an exception. The \texttt{Contextual::Return} module provides a mechanism that allows the subroutine writer to support \texttt{I<both>} of these mechanisms at the same time, by using the \texttt{C<FAIL>} specifier.

A return statement of the form:

```perl
return FAIL;
```

causes the surrounding subroutine to return \texttt{C<undef>} (i.e. false) in boolean contexts, and to throw an exception in any other context. For example:

```perl
use Contextual::Return;

sub get_next_val {
    my $next_val = <>;
    return FAIL if !defined $next_val;
}
```
chomp $next_val;
return $next_val;
}

If the C<return FAIL> statement is executed, it will either return false in a boolean context:

    if (my $val = get_next_val()) {  # returns undef if no next val
        print "[$val]\n";
    }

or else throw an exception if the return value is used in any other context:

    print get_next_val();  # throws exception if no next val

    my $next_val = get_next_val();
    print "[$next_val]\n";  # throws exception if no next val

The exception that is thrown is of the form:

    Call to main::get_next_val() failed at demo.pl line 42

but you can change that message by providing a block to the C<FAIL>, like so:

    return FAIL { "No more data" } if !defined $next_val;

in which case, the final value of the block becomes the exception message:

    No more data at demo.pl line 42

A failure value can be interrogated for its error message, by calling its C<error()> method, like so:

    my $val = get_next_val();
    if ($val) {
        print "[$val]\n";
    } else {
        print $val->error, "\n";
    }

=head2 Configurable failure contexts

The default C<FAIL> behaviour--false in boolean context, fatal in all others--works well in most situations, but violates the Platinum Rule ("Do
unto others as I<they> would have done unto them”).

So it may be user-friendlier if the user of a module is allowed decide how the module’s subroutines should behave on failure. For example, one user might prefer that failing subs always return undef; another might prefer that they always throw an exception; a third might prefer that they always log the problem and return a special Failure object; whilst a fourth user might want to get back C<0> in scalar contexts, an empty list in list contexts, and an exception everywhere else.

You could create a module that allows the user to specify all these alternatives, like so:

```perl
package MyModule;
use Contextual::Return;
use Log::StdLog;

sub import {
    my ($package, @args) = @_;

    Contextual::Return::FAIL_WITH {
        ':false' => sub { return undef },
        ':fatal' => sub { croak @_ },
        ':filed' => sub {
            print STDLOG 'Sub ', (caller 1)[3], ' failed';
            return Failure->new();
        },
        ':fussy' => sub {
            SCALAR { undef }
            LIST { () }
            DEFAULT { croak @_ }
        },
    }, @args;
}
```

This configures Contextual::Return so that, instead of the usual false-or-fatal semantics, every C<return FAIL> within MyModule's namespace is implemented by one of the four subroutines specified in the hash that was passed to C<FAIL_WITH>.

Which of those four subs implements the C<FAIL> is determined by the arguments passed after the hash (i.e. by the contents of C<@args>). C<FAIL_WITH> walks through that list of arguments and compares them against the keys of the hash. If a key matches an argument, the corresponding value is used as the implementation of C<FAIL>. Note that, if subsequent arguments also match a key, their subroutine overrides the previously installed implementation, so only the final override has any effect. Contextual::Return generates warnings when multiple overrides are
specified.

All of which mean that, if a user loaded the MyModule module like this:

```
use MyModule qw( :fatal other args here );
```

then every `<FAIL>` within MyModule would be reconfigured to throw an exception in all circumstances, since the presence of the `<:fatal>` in the argument list will cause `<FAIL_WHERE>` to select the hash entry whose key is `<:fatal>`.

On the other hand, if they loaded the module:

```
use MyModule qw( :fussy other args here );
```

then each `<FAIL>` within MyModule would return undef or empty list or throw an exception, depending on context, since that's what the subroutine whose key is `<:fussy>` does.

Many people prefer module interfaces with a `<I<flag> => I<value>>` format, and `<FAIL_WHERE>` supports this too. For example, if you wanted your module to take a `<fail>` flag, whose associated value could be any of `<undefined>`, `<exception>`, `<logged>`, or `<context>`, then you could implement that simply by specifying the flag as the first argument (i.e. `<before>` the hash) like so:

```perl
sub import {
    my $package = shift;

    Contextual::Return::FAIL_WHERE -fail => {
        'undefined' => sub { return undef },
        'exception' => sub { croak @_ },
        'logged' => sub {
            print STDLOG 'Sub ', (caller 1)[3], ' failed';
            return Failure->new();
        },
        'context' => sub {
            SCALAR { undef }
            LIST { () }
            DEFAULT { croak @_ }
        },
    }, @_;}
```

and then load the module:

```
use MyModule qw( other args here ), -fail=>'undefined';
```

or:
use MyModule qw( other args here ), -fail=>'exception';

In this case, C<FAIL_WITH> scans the argument list for a pair of values: its flag string, followed by some other selector value. Then it looks up the selector value in the hash, and installs the corresponding subroutine as its local C<FAIL> handler.

If this "flagged" interface is used, the user of the module can also specify their own handler directly, by passing a subroutine reference as the selector value instead of a string:

    use MyModule qw( other args here ), -fail=>sub{ die 'horribly'};

If this last example were used, any call to C<FAIL> within MyModule would invoke the specified anonymous subroutine (and hence throw a 'horribly' exception).

Note that, any overriding of a C<FAIL> handler is specific to the namespace and file from which the subroutine that calls C<FAIL_WITH> is itself called. Since C<FAIL_WITH> is designed to be called from within a module's C<import()> subroutine, that generally means that the C<FAIL>s within a given module X are only overridden for the current namespace within the particular file from module X is loaded. This means that two separate pieces of code (in separate files or separate namespaces) can each independently override a module's C<FAIL> behaviour, without interfering with each other.

=head2 Lvalue contexts

Recent versions of Perl offer (limited) support for lvalue subroutines: subroutines that return a modifiable variable, rather than a simple constant value.

Contextual::Return can make it easier to create such subroutines, within the limitations imposed by Perl itself. The limitations that Perl places on lvalue subs are:

=over

=item 1.

The subroutine must be declared with an C<lvalue> attribute:

    sub foo :lvalue {...}

=item 2.

The subroutine must not return via an explicit C<return>. Instead, the
last statement must evaluate to a variable, or must be a call to another lvalue subroutine call.

    my ($foo, $baz);

    sub foo :lvalue {
        $foo;               # last statement evals to a var
    }

    sub bar :lvalue {
        foo();              # last statement is lvalue sub call
    }

    sub baz :lvalue {
        my ($arg) = @_;       

        $arg > 0    # last statement evals...
        ? $baz     # ...to a var
        : bar();   # ...or to an lvalue sub call
    }

    =back

Thereafter, any call to the lvalue subroutine produces a result that can be assigned to:

    baz(0) = 42;            # same as: $baz = 42

    baz(1) = 84;            # same as:                  bar() = 84
    # which is the same as:    foo() = 84
    # which is the same as:   $foo  = 84

Ultimately, every lvalue subroutine must return a scalar variable, which is then used as the lvalue of the assignment (or whatever other lvalue operation is applied to the subroutine call). Unfortunately, because the subroutine has to return this variable before the assignment can take place, there is no way that a normal lvalue subroutine can get access to the value that will eventually be assigned to its return value.

This is occasionally annoying, so the Contextual::Return module offers a solution: in addition to all the context blocks described above, it provides three special contextual return blocks specifically for use in lvalue subroutines: C<LVALUE>, C<RVALUE>, and C<NVALUE>.

Using these blocks you can specify what happens when an lvalue subroutine is used in lvalue and non-lvalue (rvalue) context. For example:
my $verbosity_level = 1;

# Verbosity values must be between 0 and 5...
sub verbosity :lvalue {
    LVALUE { $verbosity_level = max(0, min($_, 5)) }
    RVALUE { $verbosity_level }
}

The C<LVALUE> block is executed whenever C<verbosity> is called as an lvalue:

    verbosity() = 7;

The block has access to the value being assigned, which is passed to it as C<$_>. So, in the above example, the assigned value of 7 would be aliased to C<$_> within the C<LVALUE> block, would be reduced to 5 by the "min-of-max" expression, and then assigned to C<$verbosity_level>.

(If you need to access the caller's C<$_>, it's also still available: as C<$CALLER::$_>.)

When the subroutine isn't used as an lvalue:

    print verbosity();

the C<RVALUE> block is executed instead and its final value returned. Within an C<RVALUE> block you can use any of the other features of Contextual::Return. For example:

    sub verbosity :lvalue {
        LVALUE { $verbosity_level = int max(0, min($_, 5)) }
        RVALUE {
            NUM { $verbosity_level }
            STR { $description[$verbosity_level] }
            BOOL { $verbosity_level > 2 }
        }
    }

but the context sequence must be nested inside an C<RVALUE> block.

You can also specify what an lvalue subroutine should do when it is used neither as an lvalue nor as an rvalue (i.e. in void context), by using an C<NVALUE> block:

    sub verbosity :lvalue {
        my ($level) = @_;  
        NVALUE { $verbosity_level = int max(0, min($level, 5)) }
    }
In this example, a call to `verbosity()` in void context sets the verbosity level to whatever argument is passed to the subroutine:

```perl
verbosity(1);
```

Note that you cannot get the same effect by nesting a `VOID` block within an `RVALUE` block:

```perl
LVALUE { $verbosity_level = int max(0, min($_, 5)) }
RVALUE {
    NUM { $verbosity_level }
    STR { $description[$verbosity_level] }
    BOOL { $verbosity_level > 2 }
    VOID { $verbosity_level = $level }  # Wrong!
}
```

That's because, in a void context the return value is never evaluated, so it is never treated as an rvalue, which means the `RVALUE` block never executes.

=head2 Result blocks

Occasionally, it's convenient to calculate a return value before the end of a contextual return block. For example, you may need to clean up external resources involved in the calculation after it's complete. Typically, this requirement produces a slightly awkward code sequence like this:

```perl
return
VALUE {
    $db->start_work();
    my $result = $db->retrieve_query($query);
    $db->commit();
    $result;
}
```

Such code sequences become considerably more awkward when you want the return value to be context sensitive, in which case you have to write either:
return
LIST {
    $db->start_work();
    my @result = $db->retrieve_query($query);
    $db->commit();
    @result;
}

SCALAR {
    $db->start_work();
    my $result = $db->retrieve_query($query);
    $db->commit();
    $result;
}

or, worse:

return
VALUE {
    $db->start_work();
    my $result = LIST ? [$db->retrieve_query($query)] : $db->retrieve_query($query);
    $db->commit();
    LIST ? @{$result} : $result;
}

To avoid these infelicities, Contextual::Return provides a second way of setting the result of a context block; a way that doesn't require that the result be the last statement in the block:

return
LIST {
    $db->start_work();
    RESULT { $db->retrieve_query($query) };
    $db->commit();
}

SCALAR {
    $db->start_work();
    RESULT { $db->retrieve_query($query) };
    $db->commit();
}

The presence of a C<RESULT> block inside a contextual return block causes that block to return the value of the final statement of the C<RESULT> block as the handler's return value, rather than returning the value of the handler's own final statement. In other words, the presence of a C<RESULT> block overrides the normal return value of a context handler.
Better still, the C<RESULT> block always evaluates its final statement in the same context as the surrounding C<return>, so you can just write:

```perl
return
VALUE {
    $db->start_work();
    RESULT { $db->retrieve_query($query) ;
    $db->commit();
}
```

and the C<retrieve_query()> method will be called in the appropriate context in all cases.

A C<RESULT> block can appear anywhere inside any contextual return block, but may not be used outside a context block. That is, this is an error:

```perl
if ($db->closed) {
    RESULT { undef }; # Error: not in a context block
}
return
VALUE {
    $db->start_work();
    RESULT { $db->retrieve_query($query) ;
    $db->commit();
}
```

=head2 Post-handler clean-up

If a subroutine uses an external resource, it's often necessary to close or clean-up that resource after the subroutine ends...regardless of whether the subroutine exits normally or via an exception.

Typically, this is done by encapsulating the resource in a lexically scoped object whose destructor does the clean-up. However, if the clean-up doesn't involve deallocation of an object (as in the C<< $db->commit() >> example in the previous section), it can be annoying to have to create a class and allocate a container object, merely to mediate the clean-up.

To make it easier to manage such resources, Contextual::Return supplies a special labelled block: the C<RECOVER> block. If a C<RECOVER> block is specified as part of a contextual return sequence, that block is executed after any context handler, even if the context handler exits via an exception.

So, for example, you could implement a simple commit-or-revert policy like so:
The presence of a C<RECOVER> block also intercepts all exceptions thrown in any other context block in the same contextual return sequence. Any such exception is passed into the C<RECOVER> block in the usual manner: via the C<$@> variable. The exception may be rethrown out of the C<RECOVER> block by calling C<die>:

A C<RECOVER> block can also access or replace the returned value, by invoking a C<RESULT> block. For example:

=head2 Post-return clean-up

Occasionally it's necessary to defer the clean-up of resources until after the return value has been used. Once again, this is usually done by returning an object with a suitable destructor.

Using Contextual::Return you can get the same effect, by providing a
C<CLEANUP> block in the contextual return sequence:

```
return
    LIST { $db->retrieve_all($query) }
    SCALAR { $db->retrieve_next($query) }
    CLEANUP { $db->commit() }
```

In this example, the C<commit> method call is only performed after the return value has been used by the caller. Note that this is quite different from using a C<RECOVER> block, which is called as the subroutine returns its value; a C<CLEANUP> is called when the returned value is garbage collected.

A C<CLEANUP> block is useful for controlling resources allocated to support an C<ACTIVE> return value. For example:

```
my %file;

# Return an active value that is always the next line from a file...
sub readline_from {
    my ($file_name) = @_;

    # Open the file, if not already open...
    if (!$file{$file_name}) {
        open $file{$file_name}{handle}, '<', $file_name;
    }

    # Track how many active return values are using this file...
    $file{$file_name}{count}++;

    return ACTIVE
    # Evaluating the return value returns the next line...
    VALUE { readline $file{$file_name}{handle} }

    # Once the active value is finished with, clean up the filehandle...
    CLEANUP {
        delete $file{$file_name}
    }
}
```

=head2 Debugging contextual return values

Contextual return values are implemented as opaque objects (using the "inside-out" technique). This means that passing such values to Data::Dumper produces an uninformative output like:
$VAR1 = bless( do{my $o = undef}, 'Contextual::Return::Value' );

So the module provides two methods that allow contextual return values to be correctly reported: either directly, or when dumped by Data::Dumper.

To dump a contextual return value directly, call the module's C<DUMP()> method explicitly and print the result:

    print $crv->Contextual::Return::DUMP();

This produces an output something like:

    [    
{ FROM => 'main::foo' },    
{ NO_HANDLER => [ 'VOID', 'CODEREF', 'HASHREF', 'GLOBREF' ] },    
{ FALLBACKS => [ 'VALUE' ] },    
{ LIST => [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] },    
{ STR => '<<<Throws exception: Died at demo.pl line 7.>>>'},    
{ NUM => 42 },    
{ BOOL => -1 },    
{ SCALARREF => '<<<self-reference>>>' },    
{ ARRAYREF => [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ] }
];

The C<FROM> hash entry names the subroutine that produced the return value. The C<NO_HANDLER> hash entry lists those contexts for which no handler was defined (and which would therefore normally produce "can't call" exceptions such as C<"Can't call main::foo in VOID context">). The C<FALLBACKS> hash entry lists any "generic" contexts such as C<VALUE>, C<NONVOID>, C<REF>, C<DEFAULT>, etc. that the contextual return value can also handle. After these, all the remaining hash entries are actual contexts in which the return value could successfully be evaluated, and the value it would produce in each of those contexts.

The Data::Dumper module also has a mechanism by which you can tell it how to produce a similar listing automatically whenever a contextual return value is passed to its C<Dumper> method. Data::Dumper allows you to register a "freezer" method, that is called prior to dumping, and which can be used to adapt an opaque object to make it dumpable. Contextual::Return provides just such a method (C<Contextual::Return::FREEZE()>) for you to register, like so:

    use Data::Dumper 'Dumper';
    local $Data::Dumper::Freezer = 'Contextual::Return::FREEZE';

    print Dumper $foo;
The output is then precisely the same as `Contextual::Return::DUMP()` would produce.

Note that, with both of the above dumping mechanisms, it is essential to use the full name of the method. That is:

```perl
print $crv->Contextual::Return::DUMP();
```

rather than:

```perl
print $crv->DUMP();
```

This is because the shorter version is interpreted as calling the `DUMP()` method on the object returned by the return value's `OBJREF` context block (see L<"Scalar reference contexts">).

For the same reason, you must write:

```perl
local $Data::Dumper::Freezer = 'Contextual::Return::FREEZE';
```

not:

```perl
local $Data::Dumper::Freezer = 'FREEZE';
```

=head2 Namespace controls

By default the module exports a large number of return context markers:

```perl
DEFAULT    REF       LAZY
VOID       SCALARREF FIXED
NONVOID    ARRAYREF  ACTIVE
LIST       CODEREF   RESULT
SCALAR     HASHREF   RECOVER
VALUE      GLOBREF   CLEANUP
STR        OBJREF    RVALUE
NUM        METHOD    LVALUE
BOOL          NVALUE
PUREBOOL
```

These are exported as subroutines, and so can conflict with existing subroutines in your namespace, or with subroutines imported from other modules.

Contextual::Return allows you to control which contextual return blocks are exported into any namespace that uses the module. It also allows you to rename blocks to avoid namespace conflicts with existing subroutines.
Both these features are controlled by passing arguments to the C<use> statement that loads the module as follows:

=over

=item *

Any string passed as an argument to C<use Contextual::Return>, exports only the block name it specifies;

=item *

Any regex passed as an argument to C<use Contextual::Return> exports every block name it matches;

=item *

Any array ref (recursively) exports each of its elements

=back

That is, you can specify handlers to be exported by exact name (as a string), by general pattern (as a regex), or collectively (in an array). And after any of these export specifications, you can append a template in which any C<'%s'> will be replaced by the original name of the handler. For example:

# Selectively export specific sets of handlers...
use Contextual::Return qr/[NLR]VALUE/;
use Contextual::Return qr/.REF/;

# Selective export specific sets and add a suffix to each...
use Contextual::Return qr/[NLR]VALUE/ => '%s_CONTEXT';

# Selective export specific sets and add a prefix to each...
use Contextual::Return qr/.REF/ => 'CR_%s';

# Export a list of handlers...
use Contextual::Return 'NUM', 'STR', 'BOOL';
use Contextual::Return qw< NUM STR BOOL >;
use Contextual::Return ['NUM', 'STR', 'BOOL'];
use Contextual::Return  NUM => 'NUMERIC', STR => 'TEXT', BOOL => 'CR_%s';

use Contextual::Return  ['NUM', 'STR', 'BOOL'] => '%s_CONTEXT';

use Contextual::Return (  STR => 'TEXT',  ['NUM', 'BOOL'] => 'CR_%s',  ['LIST', 'SCALAR', 'VOID', qr/^\[NLR\]VALUE/] => '%s_CONTEXT', );

=head1 INTERFACE

=head2 Context tests

=over

=item C<< LIST() >>

Returns true if the current subroutine was called in list context. A cleaner way of writing: C<< wantarray() >>

=item C<< SCALAR() >>

Returns true if the current subroutine was called in scalar context. A cleaner way of writing: C<< defined wantarray() && ! wantarray() >>

=item C<< VOID() >>

Returns true if the current subroutine was called in void context. A cleaner way of writing: C<< !defined wantarray() >>

=item C<< NONVOID() >>

Returns true if the current subroutine was called in list or scalar context. A cleaner way of writing: C<< defined wantarray() >>

=back

=head2 Standard contexts

=over
The block specifies what the context sequence should evaluate to when called in list context.

The block specifies what the context sequence should evaluate to in scalar contexts, unless some more-specific specifier scalar context specifier (see below) also occurs in the same context sequence.

The block specifies what the context sequence should do when called in void context.

Another name for C<SCALAR [...]>. Usefully self-documenting when the primary purpose of the contextual return is to defer evaluation of the return value until it's actually required.
The block specifies what the context sequence should evaluate to when treated as a reference to a scalar.

The block specifies what the context sequence should evaluate to when treated as a reference to an array.

The block specifies what the context sequence should evaluate to when treated as a reference to a hash.

Note that a common error here is to write:

```
HASHREF { a=>1, b=>2, c=>3 }
```

The curly braces there are a block, not a hash constructor, so the block doesn't return a hash reference and the interpreter throws an exception. What's needed is:

```
HASHREF { {a=>1, b=>2, c=>3} }
```

in which the inner braces are a hash constructor.

The block specifies what the context sequence should evaluate to when treated as a reference to a subroutine.

The block specifies what the context sequence should evaluate to when treated as a reference to a typeglob.

The block specifies what the context sequence should evaluate to when treated as a reference to an object.

The block can be used to specify particular handlers for specific method calls when the return value is treated as an object reference. It should return a list of methodname/methodbody pairs. Each method name can
be specified as a string, a regex, or an array of strings or regexes. The method bodies must be specified as subroutine references (usually anonymous subs). The first method name that matches the actual method call selects the corresponding handler, which is then called.

=back

=head2 Generic contexts

=over

=item C<< VALUE {...} >>

The block specifies what the context sequence should evaluate to when treated as a non-referential value (as a boolean, numeric, string, scalar, or list). Only used if there is no more-specific value context specifier in the context sequence.

=item C<< REF {...} >>

The block specifies what the context sequence should evaluate to when treated as a reference of any kind. Only used if there is no more-specific referential context specifier in the context sequence.

=item C<< NONVOID {...} >>

The block specifies what the context sequence should evaluate to when used in a non-void context of any kind. Only used if there is no more-specific context specifier in the context sequence.

=item C<< DEFAULT {...} >>

The block specifies what the context sequence should evaluate to when used in a void or non-void context of any kind. Only used if there is no more-specific context specifier in the context sequence.

=back

=head2 Failure context

=over

=item C<< FAIL >>

This block is executed unconditionally and is used to indicate failure. In a Boolean context it return false. In all other contexts it throws an exception consisting of the final evaluated value of the block.
That is, using \texttt{C<FAIL>}: 

\begin{verbatim}
return
FAIL { "Could not defenestrate the widget" }
\end{verbatim}

is exactly equivalent to writing:

\begin{verbatim}
return
BOOL { 0 }
DEFAULT { croak "Could not defenestrate the widget" }
\end{verbatim}

except that the reporting of errors is a little smarter under \texttt{C<FAIL>}. 

If \texttt{C<FAIL>} is called without specifying a block:

\begin{verbatim}
return FAIL;
\end{verbatim}

it is equivalent to:

\begin{verbatim}
return FAIL { croak "Call to <subname> failed" }
\end{verbatim}

(where \texttt{C<< <subname> >>} is replaced with the name of the surrounding subroutine).

Note that, because \texttt{C<FAIL>} implicitly covers every possible return context, it cannot be chained with other context specifiers.

=\item \texttt{C<< Contextual::Return::FAIL_WITH >>}

This subroutine is not exported, but may be called directly to reconfigure \texttt{C<FAIL>} behaviour in the caller's namespace.

The subroutine is called with an optional string (the \texttt{I<flag>}), followed by a mandatory hash reference (the \texttt{I<configurations hash>}), followed by a list of zero-or-more strings (the \texttt{I<selector list>}). The values of the configurations hash must all be subroutine references.

If the optional flag is specified, \texttt{C<FAIL_WITH>} searches the selector list looking for that string, then uses the \texttt{I<following>} item in the selector list as its \texttt{I<selector value>}. If that selector value is a string, \texttt{C<FAIL_WITH>} looks up that key in the hash, and installs the corresponding subroutine as the namespace's \texttt{C<FAIL>} handler (an exception is thrown if the selector string is not a valid key of the configurations hash). If the selector value is a subroutine reference, \texttt{C<FAIL_WITH>} installs that subroutine as the \texttt{C<FAIL>} handler.

If the optional flag is \texttt{I<not>} specified, \texttt{C<FAIL_WITH>} searches the entire selector list looking for the last element that matches any
key in the configurations hash. It then looks up that key in the
hash, and installs the corresponding subroutine as the namespace's
C<FAIL> handler.

See L<Configurable failure contexts> for examples of using this feature.

=back

=head2 Lvalue contexts

=over

=item C<< LVALUE >>

This block is executed when the result of an C<lvalue> subroutine is assigned
to. The assigned value is passed to the block as C$_>$. To access the caller's
C$_> value, use C$CALLER::$_>.

=item C<< RVALUE >>

This block is executed when the result of an C<lvalue> subroutine is used
as an rvalue. The final value that is evaluated in the block becomes the
rvalue.

=item C<< NVALUE >>

This block is executed when an C<lvalue> subroutine is evaluated in void
context.

=back

=head2 Explicit result blocks

=over

=item C<< RESULT >>

This block may only appear inside a context handler block. It causes the
surrounding handler to return the final value of the C<RESULT>'s block,
rather than the final value of the handler's own block. This override occurs
regardless of the location to the C<RESULT> block within the handler.

If called without a trailing C<{}>, it simply returns the current result
value in scalar contexts, or the list of result values in list context.

=back

=head2 Recovery blocks
If present in a context return sequence, this block grabs control after any context handler returns or exits via an exception. If an exception was thrown it is passed to the C<RECOVER> block via the C<$@> variable.

If present in a context return sequence, this block grabs control when a return value is garbage collected.

This specifies that the scalar value will only be evaluated once, the first time it is used, and that the value will then morph into that evaluated value.

This specifies that the scalar value's originating block will be re-evaluated every time the return value is used.

Dump a representation of the return value in all viable contexts
Configure Data::Dumper to correctly dump a representation of the return value.

=head1 DIAGNOSTICS

=item C<Can't use %s as export specifier>

In your C<use Contextual::Return> statement you specified something (such as a hash or coderef) that can't be used to select what the module exports. Make sure the list of selectors includes only strings, regexes, or references to arrays of strings or regexes.

=item C<use Contextual::Return qr{%s} didn't export anything>

In your C<use Contextual::Return> statement you specified a regex to select which handlers to support, but the regex didn't select any handlers. Check that the regex you're using actually does match at least one of the names of the modules many handlers.

=item C<Can't export %s: no such handler>

In your C<use Contextual::Return> statement you specified a string as the name of a context handler to be exported, but the module doesn't export a handler of that name. Check the spelling for the requested export.

=item C<Can't call %s in a %s context>

=item C<Can't use return value of %s in a %s context>

The subroutine you called uses a contextual return, but doesn't specify what to return in the particular context in which you called it. You either need to change the context in which you're calling the subroutine, or else add a context block corresponding to the offending context (or perhaps a C<DEFAULT {...}> block).

=item C<Can't call bare %s [...] in %s context>
You specified a handler (such as C<VOID {...}> or C<LIST {...}>) outside any subroutine, and in a context that it can't handle. Did you mean to place the handler outside of a subroutine? If so, then you need to put it in a context it can actually handle. Otherwise, perhaps you need to replace the trailing block with parens (that is: C<VOID()> or C<LIST()>).

=item C<Call to %s at %s didn't return a %s reference”>

You called the subroutine in a context that expected to get back a reference of some kind but the subroutine didn't specify the corresponding C<SCALARREF>, C<ARRAYREF>, C<HASHREF>, C<CODEREF>, C<GLOBREF>, or generic C<REF>, C<NONVOID>, or C<DEFAULT> handlers. You need to specify the appropriate one of these handlers in the subroutine.

=item C<Can't call method '%s' on %s value returned by %s”>

You called the subroutine and then tried to call a method on the return value, but the subroutine returned a classname or object that doesn't have that method. This probably means that the subroutine didn't return the classname or object you expected. Or perhaps you need to specify an C<OBJREF {...}> context block.

=item C<Can't install two %s handlers>

You attempted to specify two context blocks of the same name in the same return context, which is ambiguous. For example:

sub foo: lvalue {
    LVALUE { $foo = $_ }
    RVALUE { $foo }
    LVALUE { $foo = substr($_,1,10) }
}

or:

sub bar {
    return
    BOOL { 0 }
    NUM { 1 }
    STR { "two" }
    BOOL { 1 };
}

Did you cut-and-paste wrongly, or mislabel one of the blocks?
If you specify any of \texttt{LVALUE}, \texttt{RVALUE}, or \texttt{NVALUE}, then you can only specify \texttt{LVALUE}, \texttt{RVALUE}, or \texttt{NVALUE} blocks in the same return context. If you need to specify other contexts (like \texttt{BOOL}, or \texttt{STR}, or \texttt{REF}, etc.), put them inside an \texttt{RVALUE} block. See \texttt{Lvalue contexts} for an example.

This is the default exception that a \texttt{FAIL} throws in a non-scalar context. Which means that the subroutine you called has signalled failure by throwing an exception, and you didn't catch that exception. You should either put the call in an \texttt{eval [...]} block or else call the subroutine in boolean context instead.

This is the default exception that a \texttt{FAIL} throws when a failure value is captured in a scalar variable and later used in a non-boolean context. That means that the subroutine you called must have failed, and you didn't check the return value for that failure, so when you tried to use that invalid value it killed your program. You should either put the original call in an \texttt{eval [...]} or else test the return value in a boolean context and avoid using it if it's false.

The \texttt{FAIL_WITH} subroutine expects an optional flag, followed by a reference to a configuration hash, followed by a list or selector arguments. You gave it something else. See \texttt{Configurable Failure Contexts}.

You passed a configuration hash to \texttt{FAIL_WITH} that specified non-subroutines as possible \texttt{FAIL} handlers. Since non-subroutines can't possibly be handlers, maybe you forgot the \texttt{sub} keyword somewhere?

The \texttt{FAIL_WITH} subroutine was passed a flag-selector pair, but the selector
was not one of those allowed by the configuration hash.

=item C<FAIL handler for package %s redefined>

A warning that the C<FAIL> handler for a particular package was reconfigured more than once. Typically that's because the module was loaded in two places with difference configurations specified. You can't reasonably expect two different sets of behaviours from the one module within the one namespace.

=head1 CONFIGURATION AND ENVIRONMENT

Contextual::Return requires no configuration files or environment variables.

=head1 DEPENDENCIES

Requires version.pm and Want.pm.

=head1 INCOMPATIBILITIES

C<LVALUE>, C<RVALUE>, and C<NVALUE> do not work correctly under the Perl debugger. This seems to be because the debugger injects code to capture the return values from subroutines, which interferes destructively with the optional final arguments that allow C<LVALUE>, C<RVALUE>, and C<NVALUE> to cascade within a single return.

=head1 BUGS AND LIMITATIONS

No bugs have been reported.

=head1 AUTHOR

Damian Conway  C<< <DCONWAY@cpan.org> >>

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* /opt/cola/permits/1187743299_1628299715.98/0/libcontextual-return-perl-0-004008-orig-1-tar-gz/Contextual-Return-0.004008/lib/Contextual/Return.pm

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

Contextual::Return version 0.004008

This module provides a collection of named blocks that allow a return statement to return different values depending on the context in which it's called. For example:

use Contextual::Return;
use Carp;

sub foo {
    return
    BOOL { 1 }
    NUM  { 7*6 }
    STR  { 'forty-two' }
    LIST { 0..41 }
}
HASHREF  
{ name => 'Arthur', species => 'EXTINCT' }

ARRAYREF  
[ 'q'..'z' ]

GLOBREF  
{ \*STDOUT }

CODEREF  
{ croak 'I am not a code reference!'; }

#
and later...

if (my $foo = foo()) {                                  # evals to 1 in boolean context
  for my $count (1..$foo) {                           # evals to 7*6 in numeric context
    print "$count: $foo is:
      array: @{$foo}
      hash:  $foo->{name} is $foo->{species}
    
    # evals to hash in hashref context
    
  }                                                 # evals to 'forty-two' in str context
  print {$foo} $foo->();                             # Your planet destroyed here
}

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

Alternatively, to install with Module::Build, you can use the following commands:

perl Build.PL
./Build
./Build test
./Build install

DEPENDENCIES

None.

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---
abstract: 'Create context-sensitive return values'
author:
  - 'Damian Conway <DCONWAY@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.142690'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Contextual-Return
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  Want: '0'
  version: '0'
version: '0.004008'

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=head1 NAME

Contextual::Return::Failure - Utility module for Contextual::Return

=head1 NOTE

Contains no user serviceable parts. See L<Contextual::Return> instead.
=head1 AUTHOR

Damian Conway  C<< <DCONWAY@cpan.org> >>

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1.246 bouncy-castle 1.60

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tagset.

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1.248 test 1.0
1.248.1 Available under license :
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.3
Name: test
Version: 1.0
Summary: Test module
Home-page: http://test.example.com/
Author: Paul Moore
Author-email: test@example.com
License: MIT License
Download-URL: http://example.com/test
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 3

Found in path(s):
* /opt/cola/permits/1016057324_1610429998.88/0/test-1-0-dist-info-
  zip/inputdir/packages_extracted/wheel/128/test-1.0.dist-info/METADATA

1.249 hk2-locator 2.5.0

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Initialize empty image
f1c9645d8c41efddc7d8a322685f2eb bsd.img
Create new DOS partition table
57c721e38d1266c2d05067c18f2b9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d2b bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e84b48a045db233418dd73f4 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1  2048 4095  2048  1M  83 Linux
<removed>2  4096 20479 16384  8M  a5 FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start End Sectors Size Type Fsize Bsize Cpg
c  4096 20479  16384  8M unused 0 0 0
d  0 16064  16065  7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

<table>
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<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
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</tr>
<tr>
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<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

<table>
<thead>
<tr>
<th>0</th>
<th>unused</th>
<th>4.1BSD</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Appendix: How to Apply These Terms to Your New Programs

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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

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Version 3, 29 June 2007

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### 1.260 object-model 1.0.18

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**ARTICLE 1 DEFINITIONS AND INTERPRETATION**

1.1. In this Agreement and any Schedules, Order Forms or Statements of Work (SOWs), the following terms are defined as follows, and additional definitions applicable to the Order Forms are included in Attachment A: Additional Services means the Services described in Article 7 as contained in any Order Forms or SOWs;
Agreement means these General Conditions and the Software/Services Order Form (or Specific Conditions) and Schedules (together, the Order Form); Business Partner or Trading Partner means any external computer interoperating with a Licensed Component through one or more protocols, one or more networks, or one or more adapters; Defect means a reproducible error or defect in the Product that prevents it from operating materially in accordance with its Documentation; Delivery means delivery of license keys which unlock the Licensed Component (including the Support Access Code number), enabling electronic delivery of the Licensed Component for download, or shipment of a CD ROM which contains the Licensed Component, or shipment of the Hardware Product; Documentation means the documents delivered with the Product which contains Axways published specifications and user guide of the Product; Effective Date for an Order Form means the date when Customer executes an Order Form unless specified otherwise in an Order Form; Hardware Product means any hardware appliance or other item of equipment that is delivered to Customer; Licensed Component means the computer program described in the Order Form, as well as: (i) the Documentation, in either machine-readable or printed form; and (ii) all entire or partial authorized copies of such items made by Customer; and (iii) any software release provided by Axway to Customer (provided that Customer is still a subscriber to Support Services); Operating Environment means any operating system based environment hosting the running of a Licensed Component, defined by its resources: Computer, its number of CPUs, its number of Cores per CPUs, its number of Instances, its number of Partitions, the type of its Partitions and the number of CPUs per Partitions; Parties means Axway and the party identified as Customer in the Order Form; Product means Hardware Product(s) and Licensed Component(s); Site means the physical location of the Operating Environment, such address as it is provided in the Order Form; Support Services means annual Product support provided under Axways policies available at http://support.axway.com/ for the level of Support Services ordered in the Order Form; Third Party Software means any third party program or software included as an integral part of the Product and delivered with the Product; such program or software is solely for use as embedded with the Product; Use means the installation, loading, utilization, storage or display of the Product by Customer within the constraints in the Order Form; 1.2. Headings are used in this Agreement for ease of reference only and shall not affect interpretation. References in this Agreement to Articles are references to the Articles of the General Conditions unless inconsistent with the context. 1.3. The words "include", "includes", "including" and "included" will be construed without limitation unless inconsistent with the context.

ARTICLE 2 CONTRACT DOCUMENTS

2.1. This Agreement consists of these General Conditions, and any Order Form(s) or Specific Conditions, which prevail over these General Conditions to the extent of any conflict. 2.2. This Agreement forms the entire agreement between the Parties relating to this subject matter, replaces and supersedes any previous proposals, correspondence and understandings, whether written or oral; including any Customer terms and conditions, which shall not apply. 2.3. This Agreement may not be altered, modified, amended, changed, rescinded or discharged in whole or in part, except by written agreement signed by both Customer and Axway. 2.4. Nothing contained in any document or purchase order submitted by Customer shall in any way modify or add to the terms of this Agreement.

ARTICLE 3 TERM

3.1. This Agreement shall remain in effect unless terminated in accordance with Article 17. The right of Use is granted from the Effective Date, or if none stated, upon Delivery by Axway. 3.2. If purchased by Customer, Support Services shall commence on the Effective Date and shall continue for an initial period of one (1) year (Initial Support Term) except as otherwise set forth in the Order Form. Upon expiration of the Initial Support Term, the Support Services shall be automatically renewed for one (1) year periods, with payments required prior to the start of the new support term, unless and until terminated in accordance with Article 17. 3.3 The terms of this Article 3.3 apply if Customer is obtaining an evaluation license. Subject to the terms of this Agreement, Axway grants to Customer (i) a non-exclusive, nontransferable license, without right of sublicense, to install and Use the evaluation version of the Licensed Component, in object code form and/or (ii) the right to Use the Hardware Product for evaluation and trial purposes only. The term of this license begins upon delivery or download and ends thirty (30)
days thereafter, or extends for such longer period as Axway shall have agreed to in writing (the "Evaluation Period"). When the Evaluation Period expires Customer must stop Using the Licensed Component, and return any Product to Axway. Axway disclaims all warranties during this Evaluation Period and Customer waives all claims against Axway related to this Evaluation Period.

ARTICLE 4 USE OF THE LICENSED COMPONENT
4.1. As of the Effective Date of this Agreement, Axway grants to Customer, subject to the terms and conditions of this Agreement, a perpetual, non-exclusive, non-assignable and non-transferable right to Use the Licensed Component for Customers own internal business purposes only. Any delay in any payment of the fees related to this Agreement as set forth in Article 8 thirty (30) days beyond the payment date will automatically suspend the right to Use the Licensed Component for Customer, upon written notice by Axway. The Product, including portions and information or materials thereof, may not be used for any purpose that would be a violation of this Agreement. All rights not addressed herein are specifically reserved by Axway. Customer shall not Use the Product to provide services to third parties, including ASP, facilities management, outsourcing, unless expressly provided for in an Order Form. 4.2. If Customer has purchased a license for Products which are used by Customer to distribute to any third party Trading Partner that has a business need to securely transfer files to or from Customer, then the sublicense such Trading Partner has conveys the right to Use the Product for the purpose of transferring files to and from Customer in the furtherance of Customers internal business purposes only. 4.3. If Customer wishes to permanently transfer the Licensed Component to a new Operating Environment, the Order Form associated with this Agreement will have to be updated accordingly. Once the transfer has been made to the new authorized Operating Environment, Customer shall erase the Licensed Component from the former Operating Environment, within the time frame allowed in the Order Form. 4.4. Customer has the right to make one back-up copy of the Licensed Component or Documentation are prohibited.

ARTICLE 5 DELIVERY AND WARRANTY
5.1. Axway shall provide Customer with the Licensed Component in object code form and with the Documentation. Full title to the Hardware Product passes to Customer upon Delivery. Products are delivered Free On Board (FOB) shipping point with freight and insurance prepaid. 5.2. The Use of certain Licensed Components will require a key. The key will be generated by Axway based on computerdependent Customer information. Customer agrees to provide the necessary information as required to generate and activate the key. 5.3. THE TERMS OF THIS AGREEMENT ARE INSTEAD OF ALL WARRANTIES, CONDITIONS, TERMS, UNDERTAKINGS AND OBLIGATIONS IMPLIED BY STATUTE, COMMON LAW, CUSTOM, TRADE USAGE, COURSE OF DEALING OR OTHERWISE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY LAW.

ARTICLE 6 SUPPORT SERVICES
6.1. Upon payment of the applicable fees, Axway will provide technical Support Services, at the level specified on the Order Form. 6.2. Axway is under no obligation to provide Support Services (i) if there has been a modification or attempted modification of the Product (other than modifications made by Axway and delivered as part of the Product) or the Product has been improperly installed by Customer or operated or used other than in accordance with this Agreement and the Documentation; or (ii) if Customer has refused, delayed or otherwise failed to implement a release or other modification that Axway has provided or recommended.

ARTICLE 7 ADDITIONAL SERVICES
7.1. In accordance with its expertise and availability, Axway will, if ordered by Customer, provide services that may include installation, implementation, technical and training assistance services for the Product, or subscription-based services ("Additional Services") to Customer at the rates set forth in the Order Form or, if no rates are set forth, the
rates in effect at the time that such Services are provided. 7.2. Except for Retained Works (defined below), all right and title to professional services deliverables shall belong to Customer. Axway will be the owner of any Retained Works, which are defined to include: (i) any pre-existing materials, including any of Axway's preexisting software code, proprietary software tools, or training materials incorporated into the deliverables; (ii) any customized modifications to the Licensed Component unless an applicable work order, SOW or other such similar document expressly provides that such modifications are assigned to Customer; and (iii) any third party programs which are integrated with or incorporated into the deliverables. For any Retained Works incorporated into a deliverable, Axway grants Customer a non-exclusive, worldwide, royalty-free license to use such Retained Works to the same extent that Customer is licensed to use any related Licensed Component.

ARTICLE 8 PAYMENT TERMS AND CONDITIONS
8.1. The fees for the Products and Support Services are listed in the Order Form. In addition to the fees listed in the Order Form, Customer shall be responsible for all personal property, sales, use, value-added, withholding and similar taxes (other than taxes on Axway's net income) arising from the transactions described in this Agreement. Where Customer's Use of the Software or receipt of Services is exempt from sales or other taxes, Customer shall provide Axway with the appropriate exemption certificate. All amounts payable under this Agreement shall be paid net thirty (30) days from the invoice date, unless stated otherwise in an Order Form. 8.2. The license fee is fixed and not subject to revision. It shall be invoiced in full on the Effective Date, unless stated otherwise in an Order Form. 8.3. Support Services fees shall be invoiced on the Effective Date and are due net thirty (30) days from the invoice date unless otherwise stated in an Order Form. Support Services fees are subject to annual revision as stated in the relevant Specific Conditions. 8.4. Fees for professional services shall be invoiced at the end of the month in which they are provided. Travel and accommodation expenses incurred to provide training, technical assistance, support and installation services shall be invoiced to Customer based on the actual and reasonable costs incurred by Axway. Supporting documents will be provided upon reasonable request. Fees for professional services are subject to annual revision as stated in the relevant Specific Conditions. 8.5. Fees or other amounts remaining unpaid for thirty (30) days following the date of invoice shall be considered overdue and shall remain payable by Customer together with interest for late payment from the date payable at the rate of 4% per annum above the base rate for the time being of Lloyds TSB Bank plc. In addition to the above provision for late payment, Axway reserves the right to suspend performance of any Additional Services (which includes hosting services, as applicable).

ARTICLE 9 CUSTOMER RESPONSIBILITIES
9.1. Unless the hosted option is selected, Customer shall be responsible for operating the Product and shall: ensure that the hardware, base program, network and operating system configuration are suitable, develop the operating measures, control procedures and security measures required for data backup and replacement in the event of interruption in Product operation, 9.2. Customer is also responsible for: protecting its own recorded data, and the results obtained and any direct or indirect consequences thereof, making qualified personnel available to resolve any problems, and appointing one of its employees to serve as the primary point of contact with Axway for any technical issues

ARTICLE 10 INTELLECTUAL PROPERTY
10.1. Only a right to Use the Licensed Component is granted to Customer; any extension of the right granted shall be subject to Axway's prior written consent. The Parties acknowledge and agree that Customer has only Use rights with respect to the Licensed Component, but Customer owns the Hardware Product. Axway retains title in and to the Licensed Component, including any portion thereof and information, materials or copy made from it or any part of it and copyright in the Licensed Component. 10.2. If Customer wishes to make the Product interoperable with other programs, other than as envisaged in the Documentation, Axway may make the necessary information available to Customer upon receipt of a written request. 10.3. Except as otherwise provided for in this Agreement or permitted under applicable law, Customer will not, directly or through any person or entity, in any form or manner (i) copy,
 sublicense, lease, assign, distribute, reproduce, incorporate, use or allow access to the Product or modify, prepare
derivative works from the Licensed Component except as explicitly permitted under this Agreement or (ii) decrypt,
extract, decompile or otherwise reverse engineer the Licensed Component, or otherwise disassemble, derive or
attempt to derive the source code of, or any processes, methods, specifications, protocols, algorithms, interfaces,
data structures, or other information embodied or used in, the Product. The restrictions of this Article 10 shall
survive the termination of the Agreement. If Customer has purchased licenses for a Trading Partner, Customer shall
ensure each Trading Partner is bound to provisions at least as protective of Axway as Articles 4, 10, 12, 14 and 15.
Customer shall promptly notify Axway of any unauthorized use, disclosure, reproduction, or distribution of any
Product, which comes to Customers attention, or which Customer reasonably suspects. Customer may Use any
Third Party Software products or modules supplied by Axway solely with the Licensed Component. 10.4. If, in the
performance of any Additional Services hereunder, Axway is required to use any Customer supplied programs,
Customer hereby warrants that it has obtained any necessary authorizations and licenses required to allow Axway to
access and use such program as necessary for performance of the Services. Customer shall provide any associated
supporting documentation to Axway promptly upon request.

ARTICLE 11 INDEMNIFICATION
11.1. Axway agrees to defend, settle and indemnify Customer from and against any amounts payable under judgment,
court order or settlement brought by any unaffiliated third party against Customer to the extent that such action
results from actual or alleged infringement by any Product of any third party copyright, trade secret or patent
existing or issued as of the date that Axway initially Delivered the applicable version of such Product to Customer.
In connection with any allegation of infringement of any third party rights, Customer shall (and it shall be a
condition of reliance upon the indemnity for Customer to): immediately notify Axway in writing of the allegation;
and allow Axway sole control of the defense and any related settlement negotiations; and cooperate in good faith in
the said defense and comply with all of Axways reasonable requests (at Axways expense) in defending or settling
the claim. 11.2. Should Customers use of the Product be determined to have infringed any third party rights, or if in
Axways judgment, such use is likely to be infringing, Axway shall endeavor at its option do one of the following, at
its own expense: - procure for Customer the right to continue owning and/or using the Product, as applicable, -
replace or modify the Product to make its Use non-infringing while yielding substantially equivalent functionality. If
and only if the previous options are not, in Axways reasonable judgment, commercially reasonable, then Axway
may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer
agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the
Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the
applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the
infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii)
modifications or additions to the Product by Customer personnel (other than modifications at Axways direction) or
(iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in
writing that infringement or misappropriation may be avoided by use of the most recent version of such Product.
THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS
EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED
INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12 LIABILITY
12.1. Axway does not warrant that the Product will operate in combination with other software selected by
Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall
promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including,
without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2.
Except for Axways obligations with respect to indemnification or confidentiality, Axway is not liable for any
special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without
limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axway's obligations with respect to indemnification or confidentiality, Axway's liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. The foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential purpose. Axway's liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited. 12.3. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.

ARTICLE 13  ADVERTISING
The Customer must include Axway's name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14  ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15  CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute "Confidential Information". The Products, including any Documentations or portions thereof and information, material or copy derived there from, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party's Confidential Information and to limit disclosure of the same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i) is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this Agreement.

ARTICLE 16  NON-SOLICITATION
16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this...
Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.

ARTICLE 17  TERMINATION
17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18  WAIVER
The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19  SEVERABILITY
If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.

ARTICLE 20  ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axway's prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.

ARTICLE 21  AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written
report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

ARTICLE 22  EXPORT
Customer shall not export, ship, transmit or re-export the Products or Documentation in violation of any applicable law or regulation.

ARTICLE 23  THIRD PARTY SOFTWARE
Certain Third Party Software may be provided with the Licensed Component(s) that is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Axway to make the source code for such portions publicly available (such as the GNU General Public License (“GPL”) or the GNU Library General Public License (“LGPL”)), Axway will make such source code portions (including Axway modifications, as appropriate) available upon request for a period of up to three (3) years from the date of distribution. Such request can be made in writing to Axway Software - Tour W, 102 Terrasse Boieldieu, 92085 Paris La Dfense Cedex, France ATTN: Legal Department. Customer may obtain a copy of the GPL at http://www.gnu.org/licenses/gpl.html, and a copy of the LGPL at http://www.gnu.org/licenses/lgpl.html.

ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25  GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales. Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the
instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. The maximum potential of resources used by a Sub-Capacity Partition equals the overall resources of the Operating Environment; Full-Capacity Partition means a Partition using all the resources of an Operating Environment. There can only be one Full-Capacity Partition per Operating Environment. If there is another partition, then both Partitions are Sub-Capacity Partitions; Sub-Capacity Partition means a partition using a subset of the resources of an Operating Environment; Passive (Non-Production) License refers to a cluster fail over or disaster recovery software architecture. The passive software doesn't execute unless the licensed production copy of the Licensed Component fails. Where Customer is not able to use its licensed production copy of the Licensed Component in the event of fail over, the Passive license will start executing after a service interruption. A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axways Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axways SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axways Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. Human User means, with respect to the applicable Product included in Axways Validation Authority product line, any human who has one or more associated digital certificates associated with such human that: (i) uniquely identify such human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Group User means, with respect to the applicable Product included in Axways Validation Authority product line, any group of humans that has one or more associated digital certificates that: (i) uniquely identify such group; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Non-Human User means, with respect to the applicable Product included in Axways Validation Authority product line, anything other than a Human User or Group User (such as a device) (Non-Human) that has one or more associated digital certificates that: (i) uniquely identify such Non-Human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product.
1.261.1 Available under license:

mgo - MongoDB driver for Go

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BSON library for Go

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1.262 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.263 make-dfsg 4.1 6

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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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<one line to give the library's name and a brief idea of what it does.>
1.272 libparams-classify-perl 0.013-5build1

1.272.1 Available under license:
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=head1 BUGS

Probably ought to handle something like L<Params::Validate>'s scalar type specification system, which makes much the same distinctions.

=head1 SEE ALSO

L<Data::Float>,
L<Data::Integer>,
L<Params::Validate>,
NAME

Params::Classify - argument type classification

DESCRIPTION

This module provides various type-testing functions. These are intended for functions that, unlike most Perl code, care what type of data they are operating on. For example, some functions wish to behave differently depending on the type of their arguments (like overloaded functions in C++).

There are two flavours of function in this module. Functions of the first flavour only provide type classification, to allow code to discriminate between argument types. Functions of the second flavour package up the most common type of type discrimination: checking that an argument is of an expected type. The functions come in matched pairs, of the two flavours, and so the type enforcement functions handle only the simplest requirements for arguments of the types handled by the classification functions. Enforcement of more complex types may, of course, be built using the classification functions, or it may be more convenient to use a module designed for the more complex job, such as L<Params::Validate>. 
This module is implemented in XS, with a pure Perl backup version for systems that can't handle XS.

INSTALLATION

perl Build.PL
./Build
./Build test
./Build install

AUTHOR

Andrew Main (Zefram) <zefram@fysh.org>

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Found in path(s):
* /opt/cola/permits/1144946982_1633499460.61/0/libparams-classify-perl-0-013-orig-1-tar-gz/Params-Classify-0.013/README
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---
abstract: 'argument type classification'
author:
  - 'Andrew Main (Zefram) <zefram@fysh.org>'
built_requires:
  ExtUtils::ParseXS: 2.2006
  Module::Build: 0
  Test::More: 0
  perl: 5.006001
  strict: 0
  warnings: 0
configure_requires:
  Module::Build: 0
  perl: 5.006001
  strict: 0
  warnings: 0
distribution_type: module
dynamic_config: 1
generated_by: 'Module::Build version 0.3607'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Params-Classify
provides:
  Params::Classify:
    file: lib/Params/Classify.pm
    version: 0.013
requires:
  Exporter: 0
  Scalar::Util: 1.01
  perl: 5.006001
  strict: 0
  warnings: 0
resources:
  license: http://dev.perl.org/licenses/
  version: 0.013

Found in path(s):
* /opt/cola/permits/1144946982_1633499460.61/0/libparams-classify-perl-0-013-orig-1-tar-gz/Params-Classify-0.013/META.yml

1.273 powermock-classloading-base 1.6.2
1.273.1 Available under license:
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Manifest-Version: 1.0
Bundle-Description: Utilities for loading and executing classes.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: org.powermock.powermock-classloading-base
Archiver-Version: Plexus Archiver
Built-By: johan
Bnd-LastModified: 1426500064759
Bundle-ManifestVersion: 2
Eclipse-BuddyPolicy: global.app.ext.boot
Import-Package: org.powermock.api.support;version="[1.6,2)";org.powermock.reflect;version="[1.6,2)"
Require-Capability: osgi.ee:filter:="(&amp;osgi.ee=JavaSE)(version=1.6)"
DynamicImport-Package: *
1.274 libestr 0.1.10-1

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Pierre Chifflier <pollux@debian.org> on Sat, 11 Dec 2010 12:03:47 +0100

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1.284 libjson-maybexs-perl 1.003005-1

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---
abstract: 'Use L<Cpanel::JSON::XS> with a fallback to L<JSON::XS> and L<JSON::PP>'
author:
  - 'mst - Matt S. Trout (cpan:MSTROUT) <mst@shadowcat.co.uk>'
built_requires:
  Test::More: '0.88'
  Test::Without::Module: '0.17'
configure_requires:
  ExtUtils::CBuilder: '0.27'
  ExtUtils::MakeMaker: '0'
  File::Spec: '0'
  File::Temp: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: JSON-MaybeXS
no_index:
directory:
  - t
  - inc
recommends:
  Cpanel::JSON::XS: '2.3310'
requires:
  Carp: '0'
  JSON::PP: '2.27202'
  Scalar::Util: '0'
NAME
JSON::MaybeXS - Use Cpanel::JSON::XS with a fallback to JSON::XS and JSON::PP

SYNOPSIS
use JSON::MaybeXS;

my $data_structure = decode_json($json_input);

my $json_output = encode_json($data_structure);

my $json = JSON->new;

my $json_with_args = JSON::MaybeXS->new(utf8 => 1); # or { utf8 => 1 }

DESCRIPTION
This module first checks to see if either Cpanel::JSON::XS or JSON::XS is already loaded, in which case it uses that module. Otherwise it tries to load Cpanel::JSON::XS, then JSON::XS, then JSON::PP in order, and either uses the first module it finds or throws an error.

It then exports the "encode_json" and "decode_json" functions from the loaded module, along with a "JSON" constant that returns the class name for calling "new" on.

If you're writing fresh code rather than replacing JSON.pm usage, you might want to pass options as constructor args rather than calling mutators, so we provide our own "new" method that supports that.

EXPORTS
"encode_json", "decode_json" and "JSON" are exported by default; "is_bool" is exported on request.

To import only some symbols, specify them on the "use" line:

use JSON::MaybeXS qw(encode_json decode_json is_bool); # functions only

use JSON::MaybeXS qw(JSON); # JSON constant only

To import all available sensible symbols ("encode_json", "decode_json", and "is_bool"), use ":all":

use JSON::MaybeXS ':all';

To import all symbols including those needed by legacy apps that use JSON::PP:

use JSON::MaybeXS ':legacy';

This imports the "to_json" and "from_json" symbols as well as everything in ":all". NOTE: This is to support legacy code that makes extensive use of "to_json" and "from_json" which you are not yet in a position to refactor. DO NOT use this import tag in new code, in order to avoid the crawling horrors of getting UTF8 support subtly wrong. See the documentation for JSON for further details.

code_tokenize_text
This is the "encode_json" function provided by the selected implementation module, and takes a perl data structure which is serialised to JSON text.

    my $json_text = encode_json($data_structure);

decode_tokenize_text
This is the "decode_tokenize_text" function provided by the selected implementation module, and takes a string of JSON text to deserialise to a perl data structure.

    my $data_structure = decode_tokenize_text($json_text);

to_tokenize_text, from_tokenize_text
See JSON for details. These are included to support legacy code only.

JSON
The "JSON" constant returns the selected implementation module's name for use as a class name - so:

    my $json_obj = JSON->new; # returns a Cpanel::JSON::XS or JSON::PP object
and that object can then be used normally:

```perl
my $data_structure = $json_obj->decode($json_text); # etc.
```

```perl
is_bool
  $is_boolean = is_bool($scalar)
```

Returns true if the passed scalar represents either "true" or "false", two constants that act like 1 and 0, respectively and are used to represent JSON "true" and "false" values in Perl.

Since this is a bare sub in the various backend classes, it cannot be called as a class method like the other interfaces; it must be called as a function, with no invocant. It supports the representation used in all JSON backends.

**CONSTRUCTOR**

```perl
new
With JSON::PP, JSON::XS and Cpanel::JSON::XS you are required to call mutators to set options, such as:

```perl
my $json = $class->new->utf8(1)->pretty(1);
```

Since this is a trifle irritating and noticeably un-perlish, we also offer:

```perl
my $json = JSON::MaybeXS->new(utf8 => 1, pretty => 1);
```

which works equivalently to the above (and in the usual tradition will accept a hashref instead of a hash, should you so desire).

**BOOLEANS**

To include JSON-aware booleans ("true", "false") in your data, just do:

```perl
use JSON::MaybeXS;
my $true = JSON->true;
my $false = JSON->false;
```

**CAVEATS**

The "new()" method in this module is technically a factory, not a constructor, because the objects it returns will *NOT* be blessed into the "JSON::MaybeXS" class.

If you are using an object returned by this module as a Moo(se) attribute, this type constraint code:

```perl
is 'json' => ( isa => 'JSON::MaybeXS' );
```
will *NOT* do what you expect. Instead, either rely on the "JSON" class constant described above, as so:

    is 'json' => ( isa => JSON::MaybeXS::JSON() );

Alternatively, you can use duck typing:

    use Moose::Util::TypeConstraints 'duck_type';
    is 'json' => ( isa => Object , duck_type([qw/ encode decode /]));

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=head1 NAME

JSON::MaybeXS - Use L<Cpanel::JSON::XS> with a fallback to L<JSON::XS> and L<JSON::PP>

=head1 SYNOPSIS

use JSON::MaybeXS;

my $data_structure = decode_json($json_input);

my $json_output = encode_json($data_structure);

my $json = JSON->new;
my $json_with_args = JSON::MaybeXS->new(utf8 => 1); # or { utf8 => 1 }

=head1 DESCRIPTION

This module first checks to see if either L<Cpanel::JSON::XS> or L<JSON::XS> is already loaded, in which case it uses that module. Otherwise it tries to load L<Cpanel::JSON::XS>, then L<JSON::XS>, then L<JSON::PP> in order, and either uses the first module it finds or throws an error.

It then exports the C<encode_json> and C<decode_json> functions from the loaded module, along with a C<JSON> constant that returns the class name for calling C<new> on.

If you're writing fresh code rather than replacing L<JSON.pm|JSON> usage, you might want to pass options as constructor args rather than calling mutators, so we provide our own C<new> method that supports that.

=head1 EXPORTS

C<encode_json>, C<decode_json> and C<JSON> are exported by default; C<is_bool> is exported on request.

To import only some symbols, specify them on the C<use> line:

use JSON::MaybeXS qw(encode_json decode_json is_bool); # functions only

use JSON::MaybeXS qw(JSON); # JSON constant only

To import all available sensible symbols (C<encode_json>, C<decode_json>, and C<is_bool>), use C<:all>:

use JSON::MaybeXS ':all';

To import all symbols including those needed by legacy apps that use L<JSON::PP>:

use JSON::MaybeXS ':legacy';

This imports the C<to_json> and C<from_json> symbols as well as everything in C<:all>. NOTE: This is to support legacy code that makes extensive use of C<to_json> and C<from_json> which you are not yet in a position to refactor. DO NOT use this import tag in new code, in order to avoid the crawling horrors of getting UTF8 support subtly wrong. See the documentation for L<JSON> for further details.

=head2 encode_json

This is the C<encode_json> function provided by the selected implementation module, and takes a perl data structure which is serialised to JSON text.
my $json_text = encode_json($data_structure);

=head2 decode_json

This is the \decode_json\ function provided by the selected implementation
module, and takes a string of JSON text to deserialise to a perl data structure.

my $data_structure = decode_json($json_text);

=head2 to_json, from_json

See \JSON\ for details. These are included to support legacy code
B<only>.

=head2 JSON

The \JSON\ constant returns the selected implementation module's name for
use as a class name - so:

my $json_obj = JSON->new; # returns a Cpanel::JSON::XS or JSON::PP object

and that object can then be used normally:

my $data_structure = $json_obj->decode($json_text); # etc.

=head2 is_bool

$is_boolean = is_bool($scalar)

Returns true if the passed scalar represents either \true\ or
\false\, two constants that act like C<1> and C<0>, respectively
and are used to represent JSON \true\ and \false\ values in Perl.

Since this is a bare sub in the various backend classes, it cannot be called as
a class method like the other interfaces; it must be called as a function, with
no invocant. It supports the representation used in all JSON backends.

=head1 CONSTRUCTOR

=head2 new

With L<JSON::PP>, L<JSON::XS> and L<Cpanel::JSON::XS> you are required to call
mutators to set options, such as:

my $json = $class->new->utf8(1)->pretty(1);

Since this is a trifle irritating and noticeably un-perlish, we also offer:
my $json = JSON::MaybeXS->new(utf8 => 1, pretty => 1);

which works equivalently to the above (and in the usual tradition will accept a hashref instead of a hash, should you so desire).

=head1 BOOLEANS

To include JSON-aware booleans (C<true>, C<false>) in your data, just do:

use JSON::MaybeXS;
my $true = JSON->true;
my $false = JSON->false;

=head1 CAVEATS

The C<new()> method in this module is technically a factory, not a constructor, because the objects it returns will I<NOT> be blessed into the C<JSON::MaybeXS> class.

If you are using an object returned by this module as a Moo(se) attribute, this type constraint code:

    is 'json' => ( isa => 'JSON::MaybeXS' );

will I<NOT> do what you expect. Instead, either rely on the C<JSON> class constant described above, as so:

    is 'json' => ( isa => JSON::MaybeXS::JSON() );

Alternatively, you can use duck typing:

    use Moose::Util::TypeConstraints 'duck_type';
    is 'json' => ( isa => Object , duck_type([qw/ encode decode /]));

=head1 AUTHOR

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=over 4

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1.290 python-stdlib-extensions 3.5.1 1

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

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

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

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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1.291 swagger 1.5.0

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Bnd-LastModified: 1433634398680
Build-Jdk: 1.7.0_72
Built-By: tony
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-models
Bundle-SymbolicName: io.swagger.models
Bundle-Version: 1.5.0
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Tool: Bnd-2.3.0.201405100607
url: https://github.com/swagger-api/swagger-core/modules/swagger-models

1.292 javax-inject 1
1.292.1 Available under license :
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1.293 ubuntu-keyring 2012.05.19.1

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1.294 jersey-media-sse 2.28

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=head1 NAME
Tie::Persistent - persistent data structures via tie made easy

=head1 VERSION
1.00

=head1 SYNOPSIS
use Tie::Persistent;

tie %DB, 'Tie::Persistent', 'file', 'rw'; # read data from 'file'

(tied %DB)->autosync(1);       # turn on write back on every modify

# now create/add/modify datastruct
$DB{key} = "value";
(tied %DB)->sync();       # can be called manually

untie %DB;# stores data back into 'file'

# read stored data, no modification of file data
tie %ReadOnly, 'Tie::Persistent', 'file';
foreach (keys %ReadOnly) {
  print "$_ => $ReadOnly{$_}\n";
}


untie %ReadOnly;  # modifications not stored back

=head1 DESCRIPTION

The Tie::Persistent package makes working with persistent data real easy by using the C&lt;tie&gt; interface.

It works by storing data contained in a variable into a file (not unlike a database). The primary advantage is speed, as the whole datastructure is kept in memory (which is also a limitation), and, of course, that you can use arbitrary data structures inside the variable (unlike DB_File).

Note that it is most useful if the data structure fits into memory.
For larger data structures I recommend MLDBM.

If you want to make an arbitrary object persistent, just store its ref in a scalar tied to 'Tie::Persistent'.

B&lt;Beware&gt;: not every data structure or object can be made persistent.
For example, it may not contain GLOB or CODE refs, as these are not really dumpable (yet?).

Also, it works only for variables, you cannot use it for file handles.

[A persistent file handle? Hmmm... Hmmm! I've got an idea: I could start a server and send the file descriptor to it via ioctl(FD_SEND) or sendmsg. Later, I could retrieve it back, so it's persistent as long as the server process keeps running. But the whole file handle may contain more than just the file descriptor. There may be an output routine associated with it that I'd somehow have to dump. Now let's see, there was some way to get the bytecode converted back into perl code... <wanders off into the darkness mumbling> ... ]

=head1 PARAMETERS

C&lt;tie&gt; %Hash, 'Tie::Persistent', B&lt;file&gt;, B&lt;mode&gt;, I&lt;other...&gt;;

C&lt;tie&gt; @Array, 'Tie::Persistent', B&lt;file&gt;, B&lt;mode&gt;, I&lt;other...&gt;;

C&lt;tie&gt; $Scalar, 'Tie::Persistent', B&lt;file&gt;, B&lt;mode&gt;, I&lt;other...&gt;;

=over 4

=item B&lt;file&gt;

Filename to store the data in. No naming convention is enforced, but I
personally use the suffix 'pd' for "Perl Data" (or "Persistent Data")? No file locking is done; see the section on locking below.

=item B<mode> (optional)

Same as mode for POSIX fopen() or IO::File::open. Basically a combination of 'r', 'w', 'a' and '+'.

'r' .... read only. Modifications in the data are not stored back into the file. A non-existing file gives an error. This is the default if no mode is given.

'r w' ... read/write. Modifications are stored back, if the file does not exist, it is created.

'w' .... write only. The file is not read, the variable starts out empty.

'a', '+' ... append. Same as 'w', but creates numbered backup files.

'ra', 'r+' ... Same as 'rw', but creates numbered backup files.

When some kind of write access is specified, a backup file of the old dataset is always created. [You'll thank me for that, believe me.] The reason is simple: when you tie a variable read-write (the contents get restored from the file), and your program isn't fully debugged yet, it may die in the middle of some modifications, but the data will still be written back to the file, possibly leaving them inconsistent. Then you always have at least the previous version that you can restore from.

The default backup filenames follow the Emacs notation, i.e. a '~' is appended; for numbered backup files (specified as 'a' or '+'), an additional number and a '~' is appended.

For a file 'data.pd', the normal backup file would be 'data.pd~' and the numbered backup files would be 'data.pd~1~', 'data.pd~2~' and so on. The latest backup file is the one with the highest number. The backup filename format can be overridden, see below.

=item I<other> (optional, experimental)

This can be a reference to another (possibly tied) variable or a name of another tieable package.

If a ref is given, it is used internally to store the variable data instead of an anonymous variable ref. This allows to make other tied datastructures persistent, e.g. you could first tie a hash to
Tie::IxHash to make it order-preserving and then give it to Tie::Persistent to make it persistent.

A plain name is used to create this tied variable internally. Trailing arguments are passed to the other tieable package.

Example:

```perl
tie %h, 'Tie::Persistent', 'file', 'rw', 'Tie::IxHash';
```

or

```perl
tie %ixh, 'Tie::IxHash';
tie %ph, 'Tie::Persistent', 'file', 'w', %ixh;
# you can now use %ixh as an alias for %ph
```

**NOTE:** This is an experimental feature. It may or may not work with other Tie:: packages. I have only tested it with 'Tie::IxHash'. Please report success or failure.

=back

=head1 LOCKING

The data file is not automatically locked. Locking has to be done outside of the package. I recommend using a module like 'Lockfile::Simple' for that.

There are typical two scenarios for locking: you either lock just the 'tie' and/or 'untie' calls, but not the data manipulation, or you lock the whole 'tie' - modify data - 'untie' sequence.

=head1 KEEPING DATA SYNCHRONIZED

It often is useful to store snapshots of the tied data struct back to the file, e.g. to safeguard against program crashes. You have two possibilities to do that:

=over 4

=item *

use sync() to do it manually or

=item *

set autosync() to do it on every modification.

=back

Note that sync() and autosync() are methods of the tied object, so you have to call them like this:

(tied %hash)->sync();

and

(tied @array)->autosync(1);  # or '0' to turn off autosync

There is a global variable $Autosync (see there) that you can set to change the behaviour on a global level for all subsequent ties.

Enabling autosync of course means a quite hefty performance penalty, so think carefully if and how you need it. Maybe there are natural synchronisation points in your application where a manual sync is good enough. Alternatively use MLDBM (if your top-level struct is a hash).

Note: autosync only works if the top-level element of the data structure is modified. If you have more complex data structures and modify elements somewhere deep down, you have to synchronize manually. I therefore recommend the following approach, especially if the topmost structure is a hash:

=over 4

=item *

fetch the top-level element into a temporary variable

=item *

modify the datastructure

=item *

store back the top-level element, thus triggering a sync.

=back

E.g.

my $ref = $Hash{$key};  # fetch substructure
$ref->{Subkey} = $newval;  # modify somewhere down under
$Hash{$key} = $ref;  # store back
This programming style has the added advantage that you can switch 
over to other database packages (for example the MLDBM package, in 
case your data structures outgrow your memory) quite easily by just 
changing the 'tie' line!

=head1 CONFIGURATION VARIABLES

B<br>$Tie::Persistent::Readable>> controls which format to use to 
store the data inside the file. 'false' means to use 'Storable', which 
is faster (and the default), 'true' means to use 'Data::Dumper', which 
is slower but much more readable and thus meant for debugging. This 
only influences the way the datastructure is I<written>, format detection 
on read is automatic.

B<br>$Tie::Persistent::Autosync>> gives the default for all tied vars, so modifying it affects all subsequent ties. It's 
set to 'false' by default.

B<br>$Tie::Persistent::BackupFile>> points to a sub that determines the 
backup filename format. It gets the filename as $_[0] and returns the 
backup filename. The default is

sub { "$_[0]~"; } 

which is the Emacs backup format. For NT, you might want to change 
this to

sub { "$_[0].bak"; } 

or something.

B<br>$Tie::Persistent::NumberedBackupFile>> points to a sub that 
determines the numbered backup filename format. It gets the filename 
and a number as $_[0] and $_[1] respectively and returns the backup 
filename. The default is

sub { "$_[0]~$_[1]~"; } 

which is the extended Emacs backup format.

=head1 NOTES

=over 4

=item *

'Tie::Persistent' uses 'Storable' and 'Data::Dumper' internally, so
these must be installed (the CPAN module will do this for you automatically). Actually, 'Storable' is optional but recommended for speed.

=item *

For testing, I use 'Tie::IxBHash', but 'make test' still does some tests if it is not installed.

=item *

There are two mailing lists at SourceForge.net:


http://lists.sourceforge.net/mailman/listinfo/persistent-discuss for user feedback and feature discussions.

=item *

The package is available through CPAN and SourceForge.net
http://sourceforge.net/projects/persistent/

=item *

There is an initiative at SourceForge.net to get authors of persistence-packages of any kind to talk to one another. See http://sourceforge.net/projects/POOP/

=back

=head1 BUGS

Numbered backupfile creation might have problems if the filename (not the backup number) contains the first six digits of the speed of light (in m/s).

All other bugs, please tell me!

=head1 AUTHORS

Original version by Roland Giersig <RGiersig@cpan.org>

Benjamin Liberman <beanjamman@yahoo.com> added autosyncing and fixed splice.

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=head1 SEE ALSO

L<Storable>, L<Data::Dumper>, L<MLDBM>.

=cut

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*/ /opt/ws_local/PERMITS_SQL/1013873987_1591898219.6/0/libtie-persistent-perl-1-00-orig-tar-gz/Tie-Persistent-1.00/Persistent.pm

1.296 asm 3.1

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1.297 glibc 2.23-0ubuntu11.3

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Eclipse

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

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

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

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Oracle

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

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

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.301 less 481 2.1ubuntu0.2

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1.307 kmod 22 1ubuntu5

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The primary ANTLR guy:

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Noggit is a fast streaming JSON parser for java. The code is included into Solr codebase.

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** Constructs a new [@link SerialVersionUIDAdder](#SerialVersionUIDAdder). Subclasses must not use this constructor. Instead, they must use the [@link #SerialVersionUIDAdder](#SerialVersionUIDAdder(int, ClassVisitor)) version.

* @param classVisitor a [@link ClassVisitor](ClassVisitor) to which this visitor will delegate calls.
* @throws IllegalStateException If a subclass calls this constructor.
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/**
 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {@link Type}).
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*/

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CAST128
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DES
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MD4
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---

abstract: 'Moo types for numbers'
author:
- 'mateu - Mateu X. Hunter (cpan:MATEU) <hunter@missoula.org>'
build_requires:
  Test::Fatal: 0.003
  Test::More: 0.96
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.8, 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: MooX-Types-MooseLike-Numeric
no_index:
directory:
  - t
  - inc
requires:
  MooX::Types::MooseLike: 0.23
resources:
  bugtracker: http://rt.cpan.org/NoAuth/Bugs.html?Dist=MooX-Types-MooseLike-Numeric
  repository: git://github.com/mateu/MooX-Types-MooseLike-Numeric.git
  x_IRC: irc://irc.perl.org/#web-simple
version: 1.02

Found in path(s):
* /opt/cola/permits/1144945698_1633499418.9/0/libmoox-types-moose-like-numeric-perl-1-02-orig-1-tar-gz/MooX-
  Types-MooseLike-Numeric-1.02/META.yml

1.314 pacemaker 1.1.14-2ubuntu1.9

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1.316 cups 2.1.3-4ubuntu0.11

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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1.319 jackson 2.9.10
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1.328 jsondiff 1.1.2

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1.329 libtime-duration-parse-perl 0.13-1

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1.332 antlr-runtime 4.5.3

1.333 libdigest-jhash-perl 0.09-1build1

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1.335 util-linux 2.27.1 6ubuntu3.10

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1.338 jetty-util 9.4.16.v20190411

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* java.sun.security.ssl

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

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

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Mortbay

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1.341 libnsl 1.3.0-2
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1.347 underscore 1.7.0~dfsg-1ubuntu1.1

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1.348 libsigsegv 2.10 4

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1.349 libconfig-properties-perl 1.80-1

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Config::Properties
==================
Description
----------

Config::Properties is a near implementation of the java.util.Properties API. It is designed to allow easy reading, writing and manipulation of Java-style property files.

The format of a Java-style property file is that of a key-value pair separated by either whitespace, the colon (:) character, or the equals (=) character. Whitespace before the key and on either side of the separator is ignored.

Lines that begin with either a hash (#) or a bang (!) are considered comment lines and ignored.

A backslash (\) at the end of a line signifies a continuation and the next line is counted as part of the current line (minus the backslash, any whitespace after the backslash, the line break, and any whitespace at the beginning of the next line).

When a property file is saved it is in the format "key=value" for each line.

Read the POD documentation for more fine details!

Installation
----------

> perl Makefile.PL
> make

... and if you like

> make test

... and then

> make install
> perldoc Config::Properties

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Found in path(s):
* /opt/cola/permits/1144946177_1633499420.7/0/libconfig-properties-perl-1-80-orig-1-tar-gz/Config-Properties-1.80/README
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---
abstract: 'Read and write property files'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Config-Properties
no_index:
directory:
  - t
  - inc
requires:
  File::Temp: '0'
  Test::More: '0'
  Text::Wrap: '2001.0929'
resources:
  repository: https://github.com/salva/p5-Config-Properties
  version: '1.80'

Found in path(s):
* /opt/cola/permits/1144946177_1633499420.7/0/libconfig-properties-perl-1-80-orig-1-tar-gz/Config-Properties-1.80/META.yml
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=head1 NAME
=head1 SYNOPSIS

use Config::Properties;

# reading...

open my $fh, '<', 'my_config.props'
    or die "unable to open configuration file";

my $properties = Config::Properties->new();
$properties->load($fh);

$value = $properties->getProperty($key);

# saving...

open my $fh, '>', 'my_config.props'
    or die "unable to open configuration file for writing";

$properties->setProperty($key, $value);

$properties->format('%s => %s');
$properties->store($fh, $header);

=head1 DESCRIPTION

Config::Properties is a near implementation of the java.util.Properties API. It is designed to allow easy reading, writing and manipulation of Java-style property files.

The format of a Java-style property file is that of a key-value pair separated by either whitespace, the colon (:) character, or the equals (=) character. Whitespace before the key and on either side of the separator is ignored.

Lines that begin with either a hash (#) or a bang (!) are considered comment lines and ignored.

A backslash (\) at the end of a line signifies a continuation and the next line is counted as part of the current line (minus the backslash, any whitespace after the backslash, the line break, and any whitespace at the beginning of the next line).

The official references used to determine this format can be found in
the Java API docs for java.util.Properties at
L<http://java.sun.com/j2se/1.5.0/docs/api/java/util/Properties.html>.

When a property file is saved it is in the format "key=value" for each line. This can be changed by setting the format attribute using either $object->format( $format_string ) or $object->setFormat( $format_string ) (they do the same thing). The format string is fed to printf and must contain exactly two %s format characters. The first will be replaced with the key of the property and the second with the value. The string can contain no other printf control characters, but can be anything else. A newline will be automatically added to the end of the string. The current format string can be obtained by using $object->format() (with no arguments) or $object->getFormat().

If a recent version of L<Text::Wrap> is available, long lines are conveniently wrapped when saving.

=head1 METHODS

C<Config::Property> objects have this set of methods available:

=over 4
=item Config::Properties-E<gt>new(%opts)

Creates a new Config::Properties object.

The optional arguments are as follows:

=over 4
=item file => $filename

Opens and reads the entries from the given properties file

=item format => $format

Sets the format using for saving the properties to a file. See L</setFormat>.

=item wrap => 0

Disables wrapping of long lines when saving the properties to a file.

=item defaults => $defaults

Default configuration values.
The given parameter can be a hash reference or another Config::Properties object.

In that way several configuration objects can be chained. For instance:

```perl
my %defaults = (...);
my $global_config = Config::Properties->new(file => '/etc/foo.properties',
    defaults => \%defaults);
my $user_config = Config::Properties->new(file => '/home/jsmith/.foo/foo.properties',
    defaults => $global_config);
```

=item order => 'keep'|'alpha'|'none'

Sets how to order the properties when saved to a file or when returned by C<properties> and C<propertyNames> methods.

C<alpha> sorts the keys in alphanumeric order. C<keep> keeps the order of the properties as added or read from a file. C<none> returns the properties unordered.

=item encoding => $encoding

IO encoding used to read the configuration file. See L<PerlIO>.

When C<load> is called the given encoding is used unless the file handler already has a encoding layer applied.

C<latin1> is used as the default encoding (as specified in the Java properties specification).

=item be_like_java => 1

When this feature is enabled, the module will try to mimic the Java implementation as much as possible when saving files.

Currently, some escaping rules are changed and line wrapping is disabled.

=back

=item Config::Properties-E<gt>new($defaults)

Calling C<new> in this way is deprecated.

=item $p-E<gt>getProperty($k, $default, $default2, ...)

return property C<$k> or when not defined, the first defined
C<$default*>.

=item $p-E<gt>requireProperty($k, $default, $default2, ...)

this method is similar to C<getProperty> but dies if the requested property is not found.

=item $p-E<gt>setProperty($k, $v)

set property C<$k> value to C<$v>.

=item $p-E<gt>changeProperty($k, $v)

=item $p-E<gt>changeProperty($k, $v, $default, $default2, ...)

method similar to C<setPropery> but that does nothing when the new value is equal to the one returned by C<getProperty>.

An example shows why it is useful:

my $defaults=Config::Properties->new();
$defaults->setProperty(foo => 'bar');

my $p1=Config::Properties->new($defaults);
$p1->setProperty(foo => 'bar'); # we set here!
$p1->store(FILE1); foo gets saved on the file

my $p2=Config::Properties->new($defaults);
$p2->changeProperty(foo => 'bar'); # does nothing!
$p2->store(FILE2); # foo doesn't get saved on the file

=item $p-E<gt>deleteProperty($k)

=item $p-E<gt>deleteProperty($k, $recurse)

deletes property $k from the object.

If C<$recurse> is true, it also deletes any C<$k> property from the default properties object.

=item $p-E<gt>properties

returns a flatten hash with all the property key/value pairs, i.e.:

my %props=$p->properties;

=item $p-E<gt>getProperties
returns a hash reference with all the properties (including those passed as defaults).

=item $p->propertyNames;

returns the names of all the properties (including those passed as defaults).

=item $p->splitToTree()

=item $p->splitToTree($regexp)

=item $p->splitToTree($regexp, $start)

builds a tree from the properties, splitting the keys with the regular expression C<$re> (or C</\./> by default). For instance:

my $data = <<EOD;
name = pete
date.birth = 1958-09-12
date.death = 2004-05-11
surname = moo
surname.length = 3
EOD

open my $fh, '<', $data;
$cfg->load();
my $tree = $cfg->splitToTree();

makes...

$tree = { date => { birth => '1958-09-12',
   death => '2004-05-11' },
   name => 'pete',
   surname => { " => 'moo',
      length => '3' } };

The C<$start> parameter allows to split only a subset of the properties. For instance, with the same data as on the previous example:

my $subtree = $cfg->splitToTree(qr/\./, 'date');

makes...

$tree = { birth => '1958-09-12',
   death => '2004-05-11' };
This method sets properties from a tree of Perl hashes and arrays. It is the opposite of \texttt{splitToTree}.

\texttt{separator} is the string used to join the parts of the property names. The default value is a dot (\texttt{.}).

\texttt{start} is a string used as the starting point for the property names.

For instance:

```perl
my $c = Config::Properties->new;
$c->setFromTree( { foo => { " => one,
    hollo => [2, 3, 4, 1] },
    bar => 'doo',
    '->',
    'mama' })

# sets properties:
#    mama->bar = doo
#    mama->foo = one
#    mama->foo->hollo->0 = 2
#    mama->foo->hollo->1 = 3
#    mama->foo->hollo->2 = 4
#    mama->foo->hollo->3 = 1
```

similar to \texttt{setFromTree} but internally uses \texttt{changeProperty} instead of \texttt{setProperty} to set the property values.

loads properties from the open file \texttt{$file}.

Old properties on the object are discarded.
save the properties to the open file \texttt{C<$file$>.} Default properties are not saved.

\item \texttt{saveToString($header$)}

similar to \texttt{save}, but instead of saving to a file, it returns a string with the content.

\item \texttt{getFormat()}

\item \texttt{setFormat($f$)}

get/set the format string used when saving the object to a file.

SEE ALSO

Java docs for \texttt{java.util.Properties} at \url{http://java.sun.com/j2se/1.3/docs/api/index.html}.

\texttt{Config::Properties::Simple} for a simpler alternative interface to \texttt{Config::Properties}.

TODO

Add support for derived format as supported by Java class \texttt{org.apache.commons.configuration.PropertiesConfiguration} (\url{http://commons.apache.org/configuration/apidocs/org/apache/commons/configuration/PropertiesConfiguration.html})

AUTHORS

\texttt{Config::Properties} was originally developed by Randy Jay Yarger. It was maintained for some time by Craig Manley and finally it passed hands to Salvador Fandiño \texttt{sfandino@yahoo.com}, the current maintainer.

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).
The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* 
* A collection of File Manager and related routines
* 
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

* MacBinaryIII.h
* 
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* 
* Basic encoding and decoding of Macintosh files to the
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* -----------------------------------------------
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our “normal” code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTES in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it as public domain code.

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

1.351 adduser 3.118
1.351.1 Available under license :

This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<br@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
<br@debian.org>, and co-maintained by Marc Haber
<mh+debian-packages@zugshlue.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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and based on the source code of adduser.

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1.353 attr 2.4.47-2

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This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
OW2

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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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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
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1.358 java-semver 0.9.0
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1.360 jackson-databind 2.10.1

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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.

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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include/GL/wglxext.h :

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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.

1.369 vault 0.10.4
1.369.1 Available under license:

### Enterprise Licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

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---
layout: api
template: /sys/license - HTTP API
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 API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead, and see [license status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
$ 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"]
}
```

## Read Signed License

> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
```
$ curl
   --header "X-Vault-Token: ...
   http://127.0.0.1:8200/v1/sys/license/signed
```

### Sample Response
```
```json
{
   "data": {
      "signed": "01ABCDEFG..."
   }
}
```

## Install License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. The license will be replicated to the Vault instances within the targeted cluster, but will not replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a performance replication cluster, this must be run against a Vault instance within that cluster.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</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. Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

### Sample Payload
```
```json
{
   "text": "01ABCDEFG..."
}
```
### Sample Request
```shell-session
$ curl \\
   --header "X-Vault-Token: ..." \\
   --request PUT \\
   --data @payload.json \\
   http://127.0.0.1:8200/v1/sys/license
```
`autoloaded`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status \
```

### Sample Response

```json
{
  "data": {
    "autoloading_used": true,
    "autoloaded": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine",
        "Automated Snapshots"
      ],
      "license_id": "060d7820-fa59-f95c-832b-395db0ae9ba",
      "performance_standby_count": 9999,
      "start_time": "2021-05-17T00:00:00Z"
    },
    "persisted_autoload": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
```
"HSM",
"Performance Replication",
"DR Replication",
"MFA",
"Sentinel",
"Seal Wrapping",
"Control Groups",
"Performance Standby",
"Namespaces",
"KMIP",
"Entropy Augmentation",
"Transform Secrets Engine",
"Lease Count Quotas",
"Key Management Secrets Engine",
"Automated Snapshots"
],
"license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
"performance_standby_count": 9999,
"start_time": "2021-05-17T00:00:00Z"
}
},
}
```
```

---
layout: docs
page_title: license - Command
description: |
The "license" command groups subcommands for interacting with Vault licenses.

---

# license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

## Examples

Query current license in use by a node:
```shell-session
$ vault license get
Key                          Value
---                          ----- 
expiration_time              2022-05-17T23:59:59.999Z
features                     [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id                   060d7820-fa59-f95c-832b-395db0ae9ba
performance_standby_count    9999
start_time                   2021-05-17T00:00:00Z
``` 

Query signed license string (only when using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
``` 

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0ae9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0ae9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-de-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid

``` 

## Usage

```text
Usage: vault license <subcommand> [options] [args]
```
Subcommands:
  get  Query Vault's license
  inspect  View the contents of a license string

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
```
Expiration Time: 2022-05-17 23:59:59,999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{""modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":{""HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"},"performance_standby_count":9999}

License is valid
```sh
```
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against

---
# Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?
No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from <a href="https://releases.hashicorp.com/vault/">releases.hashicorp.com</a>)</td>
<td>Yes</td>
</tr>
<tr>
<td>Open-Source (OSS)</td>
<td>No</td>
</tr>
<tr>
<td>Baked-in license binaries (pro/premium)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release.

Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?
Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement).

Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.

---

Open Source Used In Virtual Topology System 2.6.7 4057
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
  <span class="title is-5">Features</span>
  <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    {{#each this.featuresInfo as |info|}}
      <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} @data-test-feature-row="data-test-feature-row">
        {{#if info.active}}
          <Icon @glyph="check-circle-outline" @size="l" class="icon-true" aria-hidden="true" />
          <span data-test-feature-status>Active {{#if info.count}}&mdash;{{info.count}} standby nodes allotted{{/if}}</span>
        {{else}}
          <Icon @glyph="cancel-circle-outline" @size="l" class="icon-false" aria-hidden="true" />
          <span data-test-feature-status>Not Active</span>
        {{/if}}
      </InfoTableRow>
    {{/each}}
  </div>
</section>
Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)

* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/api/system/license#delete-license) to remove the stored license.

{{#if this.licenseExpired}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
<AlertBanner
    @type="danger"
    @title="License expired"
    @message="Your Vault license expired on {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault."
    @marginless={true}
>
    <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopener">Read documentation</a>
</AlertBanner>
</div>
{{else if (lte this.licenseExpiringInDays 30)}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
<AlertBanner
    @type="warning"
    @title="Vault license expiring"
    @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format @expiry "hh:mm:ss a"}} on {{date-format @expiry "MMM d, yyyy"}}. {{if @autoloaded 'Add a new license to your configuration. 'Keep in mind that your next license will need to be autoloaded'}}"
    @marginless={true}
>
</AlertBanner>
</div>
The `license get` command reports on the license in use. With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```shell-session
$ vault license get
Key                          Value
---                          ----- 
expiration_time              2022-05-17T23:59:59.999Z
features                     |HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
```
Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

### 1.370 cpp 5.4.0-6ubuntu1~16.04.9

1.370.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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

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### Jdom-contrib version 1.1.3

The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.


### GeoTools

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---

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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Woodstox is an XML-parser that allows parsing of XML documents in so-called
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It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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

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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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boilerpipe

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before
In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued=true` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the `text` field:

```
[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
```

[IMPORTANT]

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

```
[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----
```

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Version 3, 29 June 2007
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== Contributors ==
* Tatu Saloranta
  * Providing benchmark suite
* Alec Wysoker
  * Performance and memory usage improvement

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1.374 libxext 1.3.3-1

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1.375 libmodule-runtime-perl 0.014-2

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NAME

Module::Runtime - runtime module handling

DESCRIPTION

The functions exported by this module deal with runtime handling of Perl modules, which are normally handled at compile time. This module avoids using any other modules, so that it can be used in low-level infrastructure.

The parts of this module that work with module names apply the same syntax that is used for barewords in Perl source. In principle this syntax can vary between versions of Perl, and this module applies the syntax of the Perl on which it is running. In practice the usable syntax hasn’t changed yet. There’s some intent for Unicode module names to be supported in the future, but this hasn’t yet amounted to any consistent facility.
The functions of this module whose purpose is to load modules include workarounds for three old Perl core bugs regarding "require". These workarounds are applied on any Perl version where the bugs exist, except for a case where one of the bugs cannot be adequately worked around in pure Perl.

INSTALLATION

perl Build.PL
   ./Build
   ./Build test
   ./Build install

AUTHOR

Andrew Main (Zefram) <zefram@fysh.org>

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---
abstract: 'runtime module handling'
author:
- 'Andrew Main (Zefram) <zefram@fysh.org>'
buildRequires:
   Module::Build: 0
Test::More: 0
perl: 5.006
strict: 0
warnings: 0
configureRequires:
   Module::Build: 0
perl: 5.006
strict: 0
warnings: 0
dynamic_config: 0
BUGS

On Perl versions 5.7.2 to 5.8.8, if C<require> is overridden by the 
C<CORE::GLOBAL> mechanism, it is likely to break the heuristics used by 
L</use_package_optimistically>, making it signal an error for a missing 
module rather than assume that it was already loaded. From Perl 5.8.9 
onwards, and on 5.7.1 and earlier, this module can avoid being confused 
by such an override. On the affected versions, a C<require> override 
might be installed by L<Lexical::SealRequireHints>, if something requires 
its bugfix but for some reason its XS implementation isn't available.

SEE ALSO

L<Lexical::SealRequireHints>, 
L<base>, 
L<perltar/require>, 
L<perltar/use>

AUTHOR

Andrew Main (Zefram) <zefram@fysh.org>

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1.376 hostname 3.23
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hostname -- set the host name or show the host/domain name

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1.380 libesmtp 1.0.6-4

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* javax.websocket:javax.websocket-api

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**Oracle OpenJDK**

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

* java.sun.security.ssl

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

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**OW2**

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

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

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**Apache**

The following artifacts are ASL2 licensed.

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

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**MortBay**

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.382 txw2 2.3.0
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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org.eclipse.jetty.toolchain.jetty-schemas

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
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Eclipse

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

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

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

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Oracle

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

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

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

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.394 gobject-introspection 1.46.0 3ubuntu1

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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.

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1.398 ant 1.9.6-1ubuntu1

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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terms of http://asm.ow2.org/license.html

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

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Apache

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

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.405 libsub-exporter-perl 0.986-1

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1.406 libmpc 1.0.3-1

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

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* java.sun.security.ssl

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org.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
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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1.417 jackcess-encrypt 3.0.0
1.417.1 Available under license:
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Manifest-Version: 1.0
Bundle-Description: An add-on to the Jackcess library for handling encryption in MS Access files.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.healthmarketscience.jackcess.encrypt
Built-By: james
Bnd-LastModified: 1549756293012
Bundle-ManifestVersion: 2
Bundle-DocURL: http://www.healthmarketscience.com
Bundle-Vendor: Health Market Science
Import-Package: javax.xml.bind, javax.xml.bind.annotation, javax.xml.bind.annotation.adapters, javax.xml.namespace, org.apache.commons.lang3.builder;version="[3.8,4)", org.bouncycastle.crypt;version="[1.60,2)", org.bouncycastle.crypto.digests;version="[1.60,2)", org.bouncycastle.crypt_engines;version="[1.60,2)", org.bouncycastle.crypt_modes;version="[1.60,2)", org.bouncycastle.crypt_params;version="[1.60,2)", org.w3c.dom
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Fragment-Host: com.healthmarketscience.jackcess
Tool: Bnd-2.3.0.201405100607
Export-Package: com.healthmarketscience.jackcess;version="3.0.0"
Bundle-Name: Jackcess Encrypt
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_192
1.418 jackson-dataformat-xml 2.9.5

1.418.1 Available under license:

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# Jackson JSON processor

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

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1.419 jersey-container-servlet-core 2.25.1

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http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.420 jetty 9.4.16.v20190411
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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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* 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
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

The class org.apache.lucene.util.compress.LZ4 is a Java rewrite of the LZ4 compression library (https://github.com/lz4/lz4/tree/dev/lib) that is licensed under the 2-clause BSD license. (https://opensource.org/licenses/bsd-license.php)

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  analysis/common/src/java/net/sf/snowball were developed by Martin Porter and Richard Boulton.

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  analysis/common/src/resources/org/apache/lucene/analysis/snowball were developed by Martin Porter and Richard Boulton.

The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
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- analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt


The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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1.428 cloning 1.9.0
1.428.1 Available under license :

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<name>Apache License, Version 2.0</name>
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Found in path(s):
* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/maven/uk.com.robust-it/cloning/pom.xml

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Manifest-Version: 1.0
Bnd-LastModified: 134935395479
Build-Jdk: 1.7.0_07
Built-By: ariskk
Bundle-Description: The cloning library is a small, open source (Apache
licensed) Java library which deep-clones objects. The objects do not have to implement the Cloneable interface. Effectively, this library can clone ANY Java object. It can be used i.e. in cache implementations, if you don’t want the cached object to be modified or whenever you want to create a deep copy of an object. Sample usage: You can create a single instance of cloner and use it throughout your application.
i.e. Cloner cloner = new Cloner(); cloner.deepClone(o);

Please check http://robust-it.co.uk/clone/ for more examples (spring integration, immutable objects etc)

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion: 2
Bundle-Name: cloning
Bundle-SymbolicName: uk.com.robust-it.cloning
Bundle-Version: 1.9.0
Created-By: Apache Maven Bundle Plugin
Export-Package: com.rits.cloning;uses:"org.objenesis";version="1.9.0", com.rits.perspectives;uses="com.rits.cloning";version="1.9.0"
Import-Package: org.objenesis;version="[1.2,2)"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/MANIFEST.MF

---

1.429 httpcomponents-core 4.4.13

1.429.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/TokenStream.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/tree/TreeNode.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/antlr4-runtime-4-5-1-sources-
  jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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* 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. [Link](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 [Link](http://asm.ow2.org/license.html)

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

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Apache

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.435 commons-io 2.5

1.435.1 Available under license:

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<head>
<meta charset="utf-8">
</head>

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@vskip 20pt plus 1fil
@end macro

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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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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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,
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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1.437 libcrypt-openssl-aes-perl 0.02 1

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   *
   * Automatically Created by Devel::PPPort on Thu Aug 10 16:07:26 2006
   *
   * Do NOT edit this file directly! -- Edit PPPort.pm instead.
   *
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   * version of Perl.
   *
   * This version of ppport.h is designed to support operation with Perl
   * installations back to 5.004, and has been tested up to 5.8.1.
   *
   * If this version of ppport.h is failing during the compilation of this
   * module, please check if a newer version of Devel::PPPort is available
   * on CPAN before sending a bug report.
   *
   * If you are using the latest version of Devel::PPPort and it is failing
   * during compilation of this module, please send a report to perlbug@perl.com
   *
   * Include all following information:
   *
   * 1. The complete output from running "perl -V"
   *
   * 2. This file.
   *
   * 3. The name & version of the module you were trying to build.
   *
   * 4. A full log of the build that failed.
   *
   * 5. Any other information that you think could be relevant.
   *
   *
   * For the latest version of this code, please retrieve the Devel::PPPort
   * module from CPAN.
   *
   */
Crypt::OpenSSL::AES version 0.02
=================================

This is Crypt::OpenSSL::AES version 0.02, an XS-wrapper around OpenSSL's AES (Advanced Encryption Standard) library.

This module is an alternative to the implementation provided by Crypt::Rijndael which implements AES itself. In contrast, this module is simply a wrapper around the OpenSSL library.

The Crypt::Rijndael implementation seems to produce inaccurate results on 64-bit x86 machines. By using OpenSSL, this module aims to avoid architecture specific problems, allowing the OpenSSL maintainers to overcome such issues.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires OpenSSL with AES support to be installed.

This module has only been tested with OpenSSL version 0.9.7a and with Perl version 5.8.5 on both 64-bit and 32-bit x86 machines.

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Found in path(s):
* /opt/cola/permits/1013873716_1622008619.16/0/crypt-openssl-aes-0-02-tar-gz/Crypt-OpenSSL-AES-0.02/README

1.438 zlib 1.2.8.dfsg-2ubuntu4.3

1.438.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly    Mark Adler
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.439 plymouth 0.9.2 3ubuntu13.5
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=head1 NAME

Test::Warn - Perl extension to test methods for warnings

=head1 SYNOPSIS

use Test::Warn;

warning_is    {foo(-dri => "/")} "Unknown Parameter 'dri'", "dri != dir gives warning";
warnings_are  {bar(1,1)} ["Width very small", "Height very small"];

warning_is    {add(2,2)} undef, "No warnings for calc 2+2"; # or
warnings_are  {add(2,2)} [],  "No warnings for calc 2+2"; # what reads better :-)

warning_like  {foo(-dri => "/")} qr/unknown param/i, "an unknown parameter test";
warnings_like {bar(1,1)} [qr/width.*small/i, qr/height.*small/i];

warning_is    {foo()} {carped => "didn't find the right parameters"};
warnings_like {foo()} [qr/undefined/.qr/undefined/.{carped => qr/no result/i}];

warning_like {foo(undef)} 'uninitialized';
warning_like {bar(file => '/etc/passwd')} 'io';

warning_like {eval q/"$x"; $x;/}
    [qw/void uninitialized/],
"some warnings at compile time";

warnings_exist {...} [qr/expected warning/], "Expected warning is thrown";

=head1 DESCRIPTION

A good style of Perl programming calls for a lot of diverse regression tests.

This module provides a few convenience methods for testing warning based code.

If you are not already familiar with the Test::More manpage
now would be the time to go take a look.

=head2 FUNCTIONS

=over 4

=item warning_is BLOCK STRING, TEST_NAME

Tests that BLOCK gives the specified warning exactly once.
The test fails if the BLOCK warns more than once or does not warn at all.
If the string is undef,
then the tests succeeds if the BLOCK doesn't give any warning.
Another way to say that there are no warnings in the block
is C<warnings_are {foo()} []], "no warnings">

If you want to test for a warning given by Carp,
you have to write something like:
C<warning_is {carp "msg"} {carped \E<gt> 'msg'}], "Test for a carped warning">
The test will fail if a "normal" warning is found instead of a "carped" one.

Note: C<warn "foo"> would print something like C<foo at -e line 1>.
This method ignores everything after the "at". Thus to match this warning
you would have to call C<warning_is {warn "foo"} "foo"], "Foo succeeded">
If you need to test for a warning at an exactly line,
try something like C<warning_like {warn "foo"} qr/at XYZ.dat line 5/>.

warning_is and warning_are are only aliases to the same method.
So you also could write
C<warning_is {foo()} []], "no warning"> or something similar.
I decided to give two methods the same name to improve readability.

A true value is returned if the test succeeds, false otherwise.

The test name is optional, but recommended.

=item warnings_are BLOCK ARRAYREF, TEST_NAME
Tests to see that BLOCK gives exactly the specified warnings.
The test fails if the warnings from BLOCK are not exactly the ones in ARRAYREF.
If the ARRAYREF is equal to [],
then the test succeeds if the BLOCK doesn't give any warning.

Please read also the notes to warning_is as these methods are only aliases.

If you want more than one test for carped warnings, try this:
C<warnings_are {carp "c1"; carp "c2"} {carped => ['c1','c2']}>; or
C<warnings_are {foo()} ["Warning 1", {carped => ['Carp 1", "Carp 2"}}], "Warning 2"].
Note that C<{carped => ...}> must always be a hash ref.

=item warning_like BLOCK REGEXP, TEST_NAME

Tests that BLOCK gives exactly one warning and it can be matched by
the given regexp.
If the string is undef,
then the tests succeeds if the BLOCK doesn't give any warning.

The REGEXP is matched against the whole warning line,
which in general has the form "WARNING at __FILE__ line __LINE__".
So you can check for a warning in the file Foo.pm on line 5 with
C<warning_like {bar()} qr/at Foo.pm line 5/, "Testname">.
I don’t know whether it makes sense to do such a test :-(
However, you should be prepared as a matching with 'at', 'file', 'd'
or similar will always pass.
Think to the qr/\foo/ if you want to test for warning "foo something" in file foo.pl.

You can also write the regexp in a string as "/\.../
instead of using the qr/.../ syntax.
Note that the slashes are important in the string,
as strings without slashes are reserved for warning categories
(to match warning categories as can be seen in the perllexwarn man page).

Similar to C<warning_is>,
you can test for warnings via C<carp> with:
C<warning_like {bar()} {carped => qr/bar called too early/i}>;

Similar to C<warning_is>/C<warnings_are>,
C<warning_like> and C<warnings_like> are only aliases to the same methods.

A true value is returned if the test succeeds, false otherwise.

The test name is optional, but recommended.
Tests whether a BLOCK gives exactly one warning of the passed category. The categories are grouped in a tree, like it is expressed in perllexwarn. Also see L</BUGS AND LIMITATIONS>.

Thanks to the grouping in a tree, it's simple possible to test for an 'io' warning, instead for testing for a 'closed|exec|layer|newline|pipe|unopened' warning.

Note, that warnings occurring at compile time, can only be caught in an eval block. So

```perl
warning_like { eval q/$x$/; $x; }
[qw/void uninitialized/],
"some warnings at compile time";
```

will work, while it wouldn't work without the eval.

Note, that it isn't possible yet, to test for own categories, created with warnings::register.

=item warnings_like BLOCK ARRAYREF, TEST_NAME

Tests to see that BLOCK gives exactly the number of the specified warnings and all the warnings have to match in the defined order to the passed regexes.

Please read also the notes to warning_like as these methods are only aliases.

Similar to C<warnings_are>, you can test for multiple warnings via C<carp> and for warning categories, too:

```perl
warnings_like { foo() }
  [qr/bar warning/,
   qr/bar warning/,
   {carped => qr/bar warning/i},
   'io'
  ].
"I hope, you'll never have to write a test for so many warnings :-(")
```

=item warnings_exist BLOCK STRING|ARRAYREF, TEST_NAME

Same as warning_like, but will warn() all warnings that do not match the supplied regex/category, instead of registering an error. Use this test when you just want to make sure that specific
warnings were generated, and couldn’t care less if other warnings happened in the same block of code.

`warnings_exist [...] qr/expected warning/, "Expected warning is thrown";`

`warnings_exist [...] ['uninitialized'], "Expected warning is thrown";`

=back

=head2 EXPORT

C<warning_is>,
C<warnings_are>,
C<warning_like>,
C<warnings_like>,
C<warnings_exist> by default.

=head1 BUGS AND LIMITATIONS

Category check is done as qr/category_name/. In some case this works, like for category 'uninitialized'. For 'utf8' it does not work. Perl does not have a list of warnings, so it is not possible to generate one for Test::Warn.

If you want to add a warning to a category, send a pull request. Modifications should be done to %warnings_in_category. You should look into perl source to check how warning is looking exactly.

Please note that warnings with newlines inside are making a lot of trouble. The only sensible way to handle them is to use are the C<warning_like> or C<warnings_like> methods. Background for these problems is that there is no really secure way to distinguish between warnings with newlines and a tracing stacktrace.

If a method has it's own warn handler, overwriting C<$SIG{__WARN__}>,
my test warning methods won't get these warnings.

The C<warning_like BLOCK CATEGORY, TEST_NAME> method isn't extremely tested.
Please use this calling style with higher attention and tell me if you find a bug.

=head1 TODO

Improve this documentation.

The code has some parts doubled - especially in the test scripts. This is really awkward and must be changed.

Please feel free to suggest improvements.
=head1 SEE ALSO

Have a look to the similar modules: L<Test::Exception>, L<Test::Trap>.

=head1 THANKS

Many thanks to Adrian Howard, chromatic and Michael G. Schwern, who have given me a lot of ideas.

=head1 AUTHOR

Janek Schleicher, E<lt>bigj AT kamelfreund.deE<gt>

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* /opt/cola/permits/1144946235_1633499393.25/0/libtest-warn-perl-0-30-orig-1-tar-gz/Test-Warn-0.30/Warn.pm
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---
abstract: Perl extension to test methods for warnings
author:
- 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
  File::Spec: 0
  Test::More: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.131490'
keywords:
- testing
- warnings
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Test-Warn
no_index:
directory:
    - t
    - inc
requires:
    Carp: 1.22
    Sub::Uplevel: 0.12
    Test::Builder: 0.13
    Test::Builder::Tester: 1.02
    perl: 5.006
resources:
    repository: https://github.com/chorny/test-warn
    version: 0.30

Found in path(s):
    */opt/cola/permits/1144946235_1633499393.25/0/libtest-warn-perl-0-30-orig-1-tar-gz/Test-Warn-0.30/META.yml
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Test/Warn version 0.30
=================================

INSTALLATION

To install this module type the following:
cpan Test::Warn

or

    perl Makefile.PL
    make
    make test
    make install

DEPENDENCIES

This module requires these other modules and libraries:

    Test::Builder
    Sub::Uplevel
    File::Spec

SYNOPSIS

    use Test::Warn;

    warning_is  { foo(-dri => "") } "Unknown Parameter 'dri'", "dri != dir gives warning";
    warnings_are { bar(1,1) } ["Width very small", "Height very small"];  

    warning_is  { add(2,2) } undef, "No warning to calc 2+2"; # or
DESCRIPTION
This module provides a few convenience methods for testing warning based code.

If you are not already familiar with the Test::More manpage now would be the time to go take a look.

FUNCTIONS - OVERVIEW
warning_is BLOCK STRING, TEST_NAME
warnings_are BLOCK ARRAYREF, TEST_NAME
warning_like BLOCK REGEXP, TEST_NAME
warning_like BLOCK STRING, TEST_NAME
warnings_like BLOCK ARRAYREF, TEST_NAME

SEE ALSO
Have a look to the similar Test::Exception module.

THANKS
Many thanks to Adrian Howard, chromatic and Michael G. Schwern, who all had given me a lot of ideas.

AUTHOR
Janek Schleicher, <bigj@kamelfreund.de>

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1.441 usbutils 007-4

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The JSONIC JSON class provides JSON encoding and decoding as defined by RFC 4627.

The following example illustrates how to encode and decode. The code:

```java
// encodes a object into a json string.
String s = JSON.encode(o);

// decodes a json string into a object.
Object o = JSON.decode(s);

// decodes a json string into a typed object.
Foo foo = JSON.decode(s, Foo.class);
```

Advanced topic:

```java
// formats a object into a json string with indents for debug.
JSON json = new JSON();
json.setPrettyPrint(true);
String pretty = json.format(o);

//uses Reader/InputStream
Bar bar = JSON.decode(new FileInputStream("bar.json"), Bar.class);
Bar bar = JSON.decode(new FileReader("bar.json"), Bar.class);
```

Summary of encoding rules for java type into json type:

<table>
<thead>
<tr>
<th>java type</th>
<th>json type</th>
</tr>
</thead>
<tbody>
<tr>
<td>java.util.Map</td>
<td>object</td>
</tr>
</tbody>
</table>


* <tr><td>java.lang.Object (public property or field)</td></tr>
* <tr><td>java.lang.Object[]</td></tr>
* <tr><td>java.util.Collection</td></tr>
* <tr><td>boolean[], short[], int[], long[], float[], double[]</td></tr>
* <tr><td>java.lang.CharSequence</td></tr>
* <tr><td>char[]</td></tr>
* <tr><td>java.lang.Character</td></tr>
* <tr><td>char</td></tr>
* <tr><td>java.util.TimeZone</td></tr>
* <tr><td>java.util.regex.Pattern</td></tr>
* <tr><td>java.lang.reflect.Type</td></tr>
* <tr><td>java.lang.reflect.Member</td></tr>
* <tr><td>java.net.URI</td></tr>
* <tr><td>java.net.URL</td></tr>
* <tr><td>byte[]</td></tr>
* <tr><td>java.util.Locale</td></tr>
* <tr><td>java.lang.Number</td></tr>
* <tr><td>byte, short, int, long, float, double</td></tr>
* <tr><td>java.util.Date</td></tr>
* <tr><td>java.util.Calendar</td></tr>
* <tr><td>java.lang.Boolean</td></tr>
* <tr><td>null</td></tr>

* <h4>Summary of decoding rules for json type into java type</h4>

<table>
<thead>
<tr>
<th>json type</th>
<th>java type</th>
</tr>
</thead>
<tbody>
<tr>
<td>object</td>
<td>java.util.LinkedHashMap</td>
</tr>
<tr>
<td>array</td>
<td>java.util.ArrayList</td>
</tr>
<tr>
<td>string</td>
<td>java.lang.String</td>
</tr>
<tr>
<td>number</td>
<td>java.math.BigDecimal</td>
</tr>
<tr>
<td>true/false</td>
<td>java.lang.Boolean</td>
</tr>
<tr>
<td>null</td>
<td>null</td>
</tr>
</tbody>
</table>

* @author Hidekatsu Izuno
* @version 1.2.6
* @see <a href="http://www.rfc-editor.org/rfc/rfc4627.txt">RFC 4627</a>
* @see <a href="http://www.apache.org/licenses/LICENSE-2.0">the Apache License, Version 2.0</a>
*/
No license file was found, but licenses were detected in source scan.

/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language
 * governing permissions and limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1112016335_1607035510.36/0/jsonic-1-2-7-sources-1-jar/net/arxn/JSONic/web/GatewayFilter.java

1.444  libjson-perl 2.90-1

1.444.1 Available under license:
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$coder = JSON::PP->new->ascii->pretty->allow_nonref;
$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

2.27200

L<JSON::XS> 2.27 (~2.30) compatible.

=head1 DESCRIPTION

This module is L<JSON::XS> compatible pure Perl module.
(Perl 5.8 or later is recommended)

JSON::XS is the fastest and most proper JSON module on CPAN.
It is written by Marc Lehmann in C, so must be compiled and
installed in the used environment.

JSON::PP is a pure-Perl module and has compatibility to JSON::XS.

=head2 FEATURES

=over

=item * correct unicode handling

This module knows how to handle Unicode (depending on Perl version).

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL> and
L<UNICODE HANDLING ON PERLS>.

=item * round-trip integrity

When you serialise a perl data structure using only data types
supported by JSON and Perl, the deserialised data structure is
identical on the Perl level. (e.g. the string "2.0" doesn't suddenly
become "2" just because it looks like a number). There I<are> minor
exceptions to this, read the MAPPING section below to learn about
those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature). But when some options are set, loose checking features are available.

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FUNCTIONAL INTERFACE>.

=head2 encode_json

$\text{json\_text} = \text{encode\_json} \ $\text{perl\_scalar}

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$\text{json\_text} = \text{JSON::PP\_\_new\_\_utf8\_\_encode}(\$\text{perl\_scalar})

=head2 decode_json

$\text{perl\_scalar} = \text{decode\_json} \ $\text{json\_text}

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

$\text{perl\_scalar} = \text{JSON::PP\_\_new\_\_utf8\_\_decode}(\$\text{json\_text})

=head2 JSON::PP::is_bool

$\text{is\_boolean} = \text{JSON::PP::is\_bool}(\$\text{scalar})

Returns true if the passed scalar represents either JSON::PP::true or JSON::PP::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

=head2 JSON::PP::true
Returns JSON true value which is blessed object. It \texttt{C<\text{isa}> JSON::PP::Boolean object.}

\texttt{=head2 JSON::PP::false}

Returns JSON false value which is blessed object. It \texttt{C<\text{isa}> JSON::PP::Boolean object.}

\texttt{=head2 JSON::PP::null}

Returns \texttt{C<undef>}. See \texttt{L<MAPPING>}, below, for more information on how JSON values are mapped to Perl.

\texttt{=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER}

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use \texttt{C<decode_json>} or \texttt{C<JSON>} module object with \texttt{C<utf8>} enable. And the decoded result will contain UNICODE characters.

\begin{verbatim}
# from network
my $json = JSON::PP->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json( $json_text );
\end{verbatim}

If an outer data is not encoded in UTF-8, firstly you should \texttt{C<decode>} it.

\begin{verbatim}
use Encode;
local $/
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;
\end{verbatim}
In this case, C<$unicode_json_text> is of course UNICODE string. So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable.

$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );

Or C<encode 'utf8'> and C<decode_json>:

$perl_scalar = decode_json( encode('utf8', $unicode_json_text ) );
# this way is not efficient.

And now, you want to convert your C<$perl_scalar> into JSON data and send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings for some reason, then its characters are regarded as B<latin1> for perl (because it does not concern with your $encoding). You B<cannot> use C<encode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable. Note that the resulted text is a UNICODE string but no problem to print it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or C<decode $encoding> all string values and C<encode_json>:

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to L<Encode>, L<perluniintro>.

=head1 METHODS

Basically, check to L<JSON> or L<JSON::XS>.
$json = JSON::PP->new

Returns a new JSON::PP object that can be used to de/encode JSON strings.

All boolean flags described below are by default disabled.

The mutators for flags all return the JSON object again and thus calls can be chained:

my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
=> {'a': [1, 2]}

=head2 ascii

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. (See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>).

In Perl 5.005, there is no character having high value (more than 255). See to L<UNICODE HANDLING ON PERLS>.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

JSON::PP->new->ascii(1)->encode(
    \u{10401} \u{abc}
) => ['\ud801\udc01']

=head2 latin1

$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

JSON::XS->new->latin1->encode ("\x{89}\x{abc}")
See to L<UNICODE HANDLING ON PERLS>.

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

(In Perl 5.005, any character outside the range 0..255 does not exist. See to L<UNICODE HANDLING ON PERLS>.)

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);

Example, decode UTF-32LE-encoded JSON:

use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);

=head2 pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

$json->indent->space_before->space_after
$json = $json->indent([$enable])

$enabled = $json->get_indent

The default indent space length is three.
You can use C<indent_length> to change the length.

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

    {
        "key": "value"
    }

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

    {
        "key": "value"
    }

=head2 relaxed
$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[  
  1,  
  2, <- this comma not normally allowed  
]

{  
  "k1": "v1",  
  "k2": "v2", <- this comma not normally allowed  
}

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

[  
  1, # this comment not allowed in JSON  
    # neither this one...  
]

=back
=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

If you want your own sorting routine, you can give a code reference or a subroutine name to C<sort_by>. See to C<JSON::PP OWN METHODS>.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

JSON::PP->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

If you want your own sorting routine, you can give a code reference or a subroutine name to C<sort_by>. See to C<JSON::PP OWN METHODS>.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

JSON::PP->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

If you want your own sorting routine, you can give a code reference or a subroutine name to C<sort_by>. See to C<JSON::PP OWN METHODS>.
If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference. Instead, the value of the B<convert_blessed> option will decide whether C<null> (C<convert_blessed> disabled or no C<TO_JSON> method found) or a representation of the object (C<convert_blessed> enabled and C<TO_JSON> method found) is being encoded. Has no effect on C<decode>.

If $enable is false (the default), then C<encode> will throw an exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no C<TO_JSON> method is found, the value of C<allow_blessed> will decide what to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the C<to_json>
function or method.

This setting does not yet influence C<decode> in any way.

If C<enable> is false, then the C<allow_blessed> setting will decide what to do when a blessed object is found.

=head2 filter_json_object

    $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

    my $js = JSON::PP->new->filter_json_object (sub { 5 });
    # returns [5]
    $js->decode ('[{}]'); # the given subroutine takes a hash reference.
    # throw an exception because allow_nonref is not enabled
    # so a lone 5 is not allowed.
    $js->decode ('{"a":1, "b":2}');

=head2 filter_json_single_key_object

    $json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the \texttt{filter\_json\_object} one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are \texttt{__class\_whatever__}, or \texttt{$__dollars\_are\_rarely\_used__$} or \texttt{ugly\_brace\_placement}, or even things like \texttt{__class\_md5sum(classname)__}, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form \texttt{ { "__widget__" => <id> } } into the corresponding \texttt{ $WIDGET{<id>} } object:

```perl
# return whatever is in $WIDGET{5}:
(JSON::PP
   ->new
   ->filter\_json\_single\_key\_object (__widget__ => sub { $WIDGET{$_[0]} })
   ->decode ('{"__widget__": 5'}
)

# this can be used with a TO\_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO\_JSON { my ($self) = @_;
   unless ($self->{id}) { $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
   }
   { __widget__ => $self->{id} }
}

=head2 shrink
$json = $json->shrink([$enable])
$enabled = $json->get\_shrink

In JSON::XS, this flag resizes strings generated by either \texttt{encode\_xs} or \texttt{decode\_xs} to their minimum size possible.
It will also try to downgrade any strings to octet-form if possible.
In JSON::PP, it is noop about resizing strings but tries C<utf8::downgrade> to the returned string by C<encode>. See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>

=head2 max_depth

$json = $json->max_depth($maximum_nesting_depth)

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{}> or C<> characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SSECURITY CONSIDERATIONS> for more info on why this is useful.

When a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

=head2 max_size

$json = $json->max_size($maximum_string_size)

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/S SECURITY CONSIDERATIONS> for more info on why this is useful.
$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. \C<undef>) become JSON \C<null> values. References to the integers \C<0> and \C<1> are converted into \C<true> and \C<false>.

$perl_scalar = $json->decode($json_text)

The opposite of \C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. \C<true> becomes \C<1> (\C<JSON::true>), \C<false> becomes \C<0> (\C<JSON::false>) and \C<null> becomes \C<undef>.

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the \C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

JSON->new->decode_prefix("[1] the tail")
=> ([], 3)

INCREMENTAL PARSING

Most of this section are copied and modified from \L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using \C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect parenthesis
mismatches. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [String] ) # void context

$obj_or_undef = $json->incr_parse( [String] ) # scalar context

@obj_or_empty = $json->incr_parse( [String] ) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>. If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and return them, or the empty list
otherwise. For this to work, there must be no separators between the JSON
objects or arrays, instead they must be concatenated back-to-back. If
an error occurs, an exception will be raised as in the scalar context
case. Note that in this case, any previously-parsed JSON texts will be
lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ("[5][7][1,2]");

    =head2 incr_text
$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This only works when a preceding call to \C\<incr_parse> in \I\<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it will fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

$json->incr_text =~ s/\s*,\s*//;

In Perl 5.005, \C\<lvalue> attribute is not available.
You must write codes like the below:

$string = $json->incr_text;
$string =~ s/\s*\s*\s*//;
$json->incr_text( $string );

=head2 incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after \C\<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to \L\<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP OWN METHODS
allow_singlequote

$json = $json->allow_singlequote([$enable])

If $enable is true (or missing), then decode will accept JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode({"foo":"bar"});
$json->allow_singlequote->decode(\"Foo\"\"bar\"");
$json->allow_singlequote->decode('foo':'bar');

As same as the relaxed option, this option may be used to parse application-specific files written by humans.

allow_barekey

$json = $json->allow_barekey([$enable])

If $enable is true (or missing), then decode will accept bare keys of JSON object that are invalid JSON format.

As same as the relaxed option, this option may be used to parse application-specific files written by humans.

$json->allow_barekey->decode({foo:bar});

allow_bignum

$json = $json->allow_bignum([$enable])

If $enable is true (or missing), then decode will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, encode converts Math::BigInt objects and Math::BigFloat objects into JSON numbers with allow_blessed enable.

$bigfloat = $json->decode('2.000000000000000000000001');
print $json->encode($bigfloat);
# => 2.0000000000000000000000000000001

See to L<JSON::XS/MAPPING> about the normal conversion of JSON number.

loose
$json = $json->loose([$enable])

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to C<decode> to these (except for \x2f).
If C<$enable> is true (or missing), then C<decode> will accept these unescaped strings.

$json->loose->decode(qq|["abc
def"]|);

See L<JSON::XS/SSECURITY CONSIDERATIONS>.

=head2 escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, I<slash> (U+002F) is escaped. But default JSON::PP (as same as JSON::XS) encodes strings without escaping slash.
If C<$enable> is true (or missing), then C<encode> will escape slashes.

=head2 indent_length

$json = $json->indent_length($length)

JSON::XS indent space length is 3 and cannot be changed.
JSON::PP set the indent space length with the given $length.
The default is 3. The acceptable range is 0 to 15.

=head2 sort_by

$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables C<$a>, C<$b> will begin
'JSON::PP::'.

If $integer is set, then the effect is same as C<canonical> on.

=head1 INTERNAL

For developers.

=over

=item PP_encode_box

Returns

{  depth => $depth,
    indent_count => $indent_count,
 }

=item PP_decode_box

Returns

{  text => $text,
    at => $at,
    ch => $ch,
    len => $len,
    depth => $depth,
    encoding => $encoding,
    is_valid_utf8 => $is_valid_utf8,
    is_valid_utf8 => $is_valid_utf8,
  }

=back

=head1 MAPPING

This section is copied from JSON::XS and modified to C<JSON::PP>.
JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to L<JSON::XS/MAPPING>.

=head2 JSON -> PERL

=over 4

=item object
A JSON object becomes a reference to a hash in Perl. No ordering of object
to keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and
might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, C<JSON> only guarantees precision up to but not including
the least significant bit.

When C<allow_bignum> is enabled, the big integers
and the numeric can be optionally converted into L<Math::BigInt> and
L<Math::BigFloat> objects.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>,
respectively. They are overloaded to act almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::is_bool> function.

    print JSON::PP::true . "$\n";
    => true
    print JSON::PP::true + 1;
    => 1

    ok(JSON::true eq '1');
    ok(JSON::true == 1);

C<JSON> will install these missing overloading features to the backend modules.

=item null

A JSON null atom becomes C<undef> in Perl.

C<JSON::PP::null> returns C<undef>.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. C<JSON> optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

```
to_json [0,JSON::PP::true]      # yields [false,true]
```

=item JSON::PP::true, JSON::PP::false, JSON::PP::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

JSON::PP::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the C<allow_blessed> and C<convert_blessed> methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [-3.0e17]                # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]                 # yields ["5"]

# undef becomes null
encode_json [undef]                   # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";       # stringified
```
$x = '';    # another, more awkward way to stringify
print $x;    # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
    $x += 0;     # numify it, ensuring it will be dumped as a number
    $x *= 1;     # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=item Big Number

When C<allow_bignum> is enable, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers.

=back

=head1 UNICODE HANDLING ON PERLS

If you do not know about Unicode on Perl well, please check L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

=head2 Perl 5.8 and later

Perl can handle Unicode and the JSON::PP de/encode methods also work properly.

    $json->allow_nonref->encode(chr hex 3042);
    $json->allow_nonref->encode(chr hex 12345);

Returns C<"\u3042"> and C<"\ud808\udf45"> respectively.

    $json->allow_nonref->decode("\u3042");
    $json->allow_nonref->decode("\ud808\udf45");

Returns UTF-8 encoded strings with UTF8 flag, regarded as C<U+3042> and C<U+12345>.

Note that the versions from Perl 5.8.0 to 5.8.2, Perl built-in C<join> was broken, so JSON::PP wraps the C<join> with a subroutine. Thus JSON::PP works slow in the versions.
Perl can handle Unicode and the JSON::PP de/encode methods also work.

Perl 5.005 is a byte semantics world -- all strings are sequences of bytes. That means the unicode handling is not available.

In encoding,

```
$json->allow_nonref->encode(chr hex 3042); # hex 3042 is 12354.
$json->allow_nonref->encode(chr hex 12345); # hex 12345 is 74565.
```

Returns C<B> and C<E>, as C<chr> takes a value more than 255, it treats as C<$value % 256>, so the above codes are equivalent to:

```
$json->allow_nonref->encode(chr 66);
$json->allow_nonref->encode(chr 69);
```

In decoding,

```
$json->decode('"\u00e3\u0081\u0082"');
```

The returned is a byte sequence C<0xE3 0x81 0x82> for UTF-8 encoded japanese character (C<HIRAGANA LETTER A>). And if it is represented in Unicode code point, C<U+3042>.

Next,

```
$json->decode('"\u3042"');
```

We ordinary expect the returned value is a Unicode character C<U+3042>. But here is 5.005 world. This is C<0xE3 0x81 0x82>.

```
$json->decode('"\ud808\udf45"');
```

This is not a character C<U+12345> but bytes - C<0xf0 0x92 0x8d 0x85>.

=head1 TODO

=over

=item speed
memory saving

SEE ALSO

Most of the document are copied and modified from JSON::XS doc.

L<JSON::XS>

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

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NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;
$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

use JSON -support_by_pp;

# option-acceptable interfaces (expect/generate UNICODE by default)

$json_text = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
$perl_scalar = from_json( $json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

=head1 VERSION

2.90

This version is compatible with JSON::XS B<2.34> and later.
(Not yet compatible to JSON::XS B<3.0x>.)

=head1 NOTE

JSON::PP was earlier included in the C<JSON> distribution, but
has since Perl 5.14 been a core module. For this reason,
L<JSON::PP> was removed from the JSON distribution and can now
be found also in the Perl5 repository at

=over

=item * L<http://perl5.git.perl.org/perl.git>

=back

(The newest JSON::PP version still exists in CPAN.)

Instead, the C<JSON> distribution will include JSON::backportPP
for backwards computability. JSON.pm should thus work as it did
before.

=head1 DESCRIPTION
CAUTION

INCOMPATIBLE CHANGE (JSON::XS version 2.90)

JSON.pm had patched JSON::XS::Boolean and JSON::PP::Boolean internally on loading time for making these modules inherit JSON::Boolean. But since JSON::XS v3.0 it use Types::Serialiser as boolean class. Then now JSON.pm breaks boolean classe overload features and -support_by_pp if JSON::XS v3.0 or later is installed.

JSON::true and JSON::false returned JSON::Boolean objects. For workaround, they return JSON::PP::Boolean objects in this version.

isa_ok(JSON::true, 'JSON::PP::Boolean');

And it discards a feature:

ok(JSON::true eq 'true');

In other word, JSON::PP::Boolean overload numeric only.

ok( JSON::true == 1 );

CAUTION

This is 'JSON module version 2' and there are many differences to version 1.xx

Please check your applications using old version.

See to 'INCOMPATIBLE CHANGES TO OLD VERSION'

CAUTION

This is JavaScript Object Notation (JSON) is a simple data format.

This module converts Perl data structures to JSON and vice versa using either L<JSON::XS> or L<JSON::PP>.

JSON::XS is the fastest and most proper JSON module on CPAN which must be compiled and installed in your environment.

JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP instead.
So its features completely depend on JSON::XS or JSON::PP.

See to L<BACKEND MODULE DECISION>.

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To distinguish the module name 'JSON' and the format type JSON, the former is quoted by `CE<lt>E<gt>` (its results vary with your using media), and the latter is left just as it is.

Module name : C<JSON>

Format type : JSON

=head2 FEATURES

=over

=item * correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions C<JSON> should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to L<JSON::PP/UNICODE HANDLING ON PERLS> for more information.

See also to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL> and L<JSON::XS/ENCODING/CODESET_FLAG_NOTES>.

=item * round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There I<are> minor exceptions to this, read the L</MAPPING> section below to learn about those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

See to L<JSON::XS/FEATURES> and L<JSON::PP/FEATURES>. 

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, C<JSON> returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

This module has both a simple functional interface as well as an object oriented interface interface.

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FUNCTIONAL INTERFACE>. C<to_json> and C<from_json> are additional functions.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$json_text = JSON->new->utf8->encode($perl_scalar)

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:
$perl_scalar = JSON->new->utf8->decode($json_text)

=head2 to_json

$json_text = to_json($perl_scalar)

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

$json_text = JSON->new->encode($perl_scalar)

Takes a hash reference as the second.

$perl_scalar = to_json($perl_scalar, $flag_hashref)

So,

$perl_scalar = to_json($perl_scalar, {utf8 => 1, pretty => 1})

equivalent to:

$perl_scalar = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

If you want to write a modern perl code which communicates to outer world, you should use C<encode_json> (supposed that JSON data are encoded in UTF-8).

=head2 from_json

$perl_scalar = from_json($json_text)

The opposite of C<to_json>: expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->decode($json_text)

Takes a hash reference as the second.

$perl_scalar = from_json($json_text, $flag_hashref)

So,

$perl_scalar = from_json($json_text, {utf8 => 1})
equivalent to:

```
$perl_scalar = JSON->new->utf8(1)->decode($json_text)
```

If you want to write a modern perl code which communicates to outer world, you should use C<decode_json> (supposed that JSON data are encoded in UTF-8).

=head2 JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

=head2 JSON::true

Returns JSON true value which is blessed object. It C<isa> JSON::Boolean object.

=head2 JSON::false

Returns JSON false value which is blessed object. It C<isa> JSON::Boolean object.

=head2 JSON::null

Returns C<undef>.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use C<decode_json> or C<JSON> module object with C<utf8> enable. And the decoded result will contain UNICODE characters.

```
# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/;
open( my $fh, '<', 'json.data' );
```
$json_text = <$fh>
$perl_scalar = decode_json($json_text);

If an outer data is not encoded in UTF-8, firstly you should C<decode> it.

use Encode;
local $/;
open my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;

In this case, C<$unicode_json_text> is of course UNICODE string.
So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable or C<from_json>.

$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
# or
$perl_scalar = from_json( $unicode_json_text );

Or C<encode 'utf8'> and C<decode_json>:

$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.

And now, you want to convert your C<$perl_scalar> into JSON data and
send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded
in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings
for some reason, then its characters are regarded as B<latin1> for perl
(because it does not concern with your $encoding).
You B<cannot> use C<encode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable or C<to_json>.
Note that the resulted text is a UNICODE string but no problem to print it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# or
$unicode_json_text = to_json( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or C<decode $encoding> all string values and C<encode_json>:

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to L<Encode>, L<perluniintro>.

=head1 COMMON OBJECT-ORIENTED INTERFACE

=head2 new

$json = JSON->new

Returns a new C<JSON> object inherited from either JSON::XS or JSON::PP
that can be used to de/encode JSON strings.

All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON object again and thus calls can
be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

=head2 ascii

$json = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside
the code range 0..127. Any Unicode characters outside that range will be escaped using either
a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless
required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.
See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.

JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]

=head2 latin1

$json = $json->latin1([$enable])

$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

JSON->new->latin1->encode (["\x{89}\x{abc}"])
=> ["\x{89}\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);

Example, decode UTF-32LE-encoded JSON:

use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.

=head2 pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

Equivalent to:

$json->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent
space length.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, identifying them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The indent space length is three.
With JSON::PP, you can also access C<indent_length> to change indent space length.

=head2 space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:>) separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

{"key": "value"}

=head2 space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If $enable is true (or missing), then the encode method will add an extra optional space after the : separating keys from values in JSON objects and extra whitespace after the , separating key-value pairs and array members.

If $enable is false, then the encode method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then decode will accept some extensions to normal JSON syntax (see below). encode will not be affected in anyway. Be aware that this option makes you accept invalid JSON texts as if they were valid!. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then decode will only accept valid JSON texts.

Currently accepted extensions are:
JSON separates array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data,
as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the $encode method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, $decode will accept those JSON
values instead of croaking.

If $enable is false, then the $encode method will croak if it isn’t
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, $decode will croak if given something that is not a
JSON object or array.

$enc = JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ($enable)

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON "null" value.
Note that blessed objects are not included here and are handled
separately by $allow_nonref.

If $enable is false (the default), then "encode" will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is
recommended to leave it off unless you know your communications
partner.

=head2 allow_blessed

$json = $json->allow_blessed($enable)

$enabled = $json->get_allow_blessed
If $enable$ is true (or missing), then the $encode$ method will not barf when it encounters a blessed reference. Instead, the value of the B<convert_blessed> option will decide whether C<null> (C<convert_blessed> disabled or no C<TO_JSON> method found) or a representation of the object (C<convert_blessed> enabled and C<TO_JSON> method found) is being encoded. Has no effect on C<decode>.

If $enable$ is false (the default), then C<encode> will throw an exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If $enable$ is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no C<TO_JSON> method is found, the value of C<allow_blessed> will decide what to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the C<to_json> function or method.

This setting does not yet influence C<decode> in any way.

If $enable$ is false, then the C<allow_blessed> setting will decide what to do when a blessed object is found.

=over

=item convert_blessed_universally mode

If use C<JSON> with C<-convert_blessed_universally>, the C<UNIVERSAL::TO_JSON> subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? { %{ $_[0] } }
        : $b_obj->isa('B::AV') ? [ @{ $_[0] } ]
    }

This will cause that C<encode> method converts simple blessed objects into
JSON objects as non-blessed object.

    JSON -convert_blessed_universally;
    $json->allow_blessed->convert_blessed->encode( $blessed_object )

This feature is experimental and may be removed in the future.

=head2 filter_json_object

    $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument passed to the coderef
is a reference to the newly-created hash. If the code references returns
a single scalar (which need not be a reference), this value
(i.e. a copy of that scalar to avoid aliasing) is inserted into the
deserialised data structure. If it returns an empty list
(NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised
hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

    my $js = JSON->new->filter_json_object (sub { 5 });
    # returns [5]
    $js->decode ('[{}]'); # the given subroutine takes a hash reference.
    # throw an exception because allow_nonref is not enabled
    # so a lone 5 is not allowed.
    $js->decode ('{"a":1, "b":2;}');

=head2 filter_json_single_key_object

    $json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.  

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.
If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.
As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.
Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.
Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
$WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')
# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
my ($self) = @_;
unless ($self->{id}) {
$self->{id} = ..get..some..id..;
$WIDGET{$self->{id}} = $self;
}
{ __widget__ => $self->{id} }
}

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=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either
C<encode> or C<decode> to their minimum size possible. This can save
memory when your JSON texts are either very very long or you have many
short strings. It will also try to downgrade any strings to octet-form
if possible: perl stores strings internally either in an encoding called
UTF-X or in octet-form. The latter cannot store everything but uses less
space in general (and some buggy Perl or C code might even rely on that
internal representation being used).

With JSON::PP, it is noop about resizing strings but tries
C<utf8::downgrade> to the returned string by C<encode>. See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE> and L<JSON::PP/METHODS>.

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<|> or C<|>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

Note that nesting is implemented by recursion in C. The default value has
been chosen to be as large as typical operating systems allow without
crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and
it de/encodes a deep nested object/text, it may raise a warning
'Deep recursion on subroutine' at the perl runtime phase.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.
Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS>, below, for more info on why this is useful.

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. C<undef>) become JSON C<null> values. References to the integers C<0> and C<1> are converted into C<true> and C<false>.

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. C<true> becomes C<1> (C<JSON::true>), C<false> becomes C<0> (C<JSON::false>) and C<null> becomes C<undef>.

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed.
so far.

```perl
JSON->new->decode_prefix ("[1] the tail")
=> ([], 3)
```

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>.

=head2 property

$boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are C<ascii>, C<latin1>, C<utf8>,
C<indent>, C<space_before>, C<space_after>, C<relaxed>, C<canonical>,
C<allow_nonref>, C<allow_unknown>, C<allow_blessed>, C<convert_blessed>,
C<shrink>, C<max_depth> and C<max_size>.

```perl
$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1
```

Sets the property with a given boolean value.

```perl
$json = $json->property($property_name => $boolean);
```

With no argument, it returns all the above properties as a hash reference.

```perl
$flag_hashref = $json->property();
```

=head1 INCREMENTAL PARSING

Most of this section are copied and modified from L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts.
This module does allow you to parse a JSON stream incrementally.
It does so by accumulating text until it has a full JSON object, which
it then can decode. This process is similar to using C<decode_prefix>
to see if a full JSON object is available, but is much more efficient
(and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect parenthesis
mismatches. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

$obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

  my @objs = JSON->new->incr_parse ("[5][7][1,2]");

=head2 incr_text

$lvalue_string = $json->incr_text


This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This only works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it, although in simple tests it might actually work, it will fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

	$json->incr_text =~ s/\s*,\s*//;

In Perl 5.005, C<lvalue> attribute is not available. You must write codes like the below:

	$string = $json->incr_text;
	$string =~ s/\s*,\s*//;
	$json->incr_text( $string );

=head2 incr_skip

	$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

=head2 incr_reset

	$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to L<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when C<JSON> works with JSON::PP (i.e. the created object is a JSON::PP object), available.
If you use C<JSON> with additional C<-support_by_pp>, some methods are available even with JSON::XS. See to L<USE PP FEATURES EVEN THOUGH XS BACKEND>.

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(
   ["/"]
   , { escape_slash => 1 });
print from_json(["foo"]
   , { utf8 => 1 });

If you do not want to all functions but C<-support_by_pp>, use C<-no_export>.

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

=head2 allow_singlequote

(jsonPath = $json->allow_singlequote([$enable]))

If C<$enable> is true (or missing), then C<decode> will accept any JSON strings quoted by single quotations that are invalid JSON format.

(jsonPath->allow_singlequote->decode("foo":"bar");
(jsonPath->allow_singlequote->decode('foo':'bar'));
(jsonPath->allow_singlequote->decode('foo':"bar");

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

=head2 allow_barekey

(jsonPath = $json->allow_barekey([$enable]))

If C<$enable> is true (or missing), then C<decode> will accept bare keys of JSON object that are invalid JSON format.

(jsonPath->allow_barekey->decode('foo':"bar");

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.
=head2 allow_bignum

$json = $json->allow_bignum([$enable])

If $enable is true (or missing), then $decode will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, $encode converts Math::BigInt objects and Math::BigFloat objects into JSON numbers with $allow_blessed enable.

$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to L<MAPPING> about the conversion of JSON number.

=head2 loose

$json = $json->loose([$enable])

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn’t allow to $decode to these (except for \x2f). If $enable is true (or missing), then $decode will accept these unescaped strings.

$json->loose->decode(qq|"abc
def'|);

See to L<JSON::PP/JSON::PP OWN METHODS>.

=head2 escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, I<slash> (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If $enable is true (or missing), then $encode will escape slashes.

=head2 indent_length

$json = $json->indent_length($length)

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length.

See to L<JSON::XS/JSON::XS OWN METHODS>.
The default is 3. The acceptable range is 0 to 15.
=head2 sort_by
$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)
If $function_name or $subroutine_ref are set, its sort routine are used.
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
As the sorting routine runs in the JSON::PP scope, the given
subroutine name and the special variables C<$a>, C<$b> will begin
with 'JSON::PP::'.
If $integer is set, then the effect is same as C<canonical> on.
See to L<JSON::PP/JSON::PP OWN METHODS>.
=head1 MAPPING
This section is copied from JSON::XS and modified to C<JSON>.
JSON::XS and JSON::PP mapping mechanisms are almost equivalent.
See to L<JSON::XS/MAPPING>.
=head2 JSON -> PERL
=over 4
=item object
A JSON object becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserver object key ordering itself).
=item array
A JSON array becomes a reference to an array in Perl.
=item string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON

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are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, C<JSON> only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and C<allow_bignum> is enable, the big integers and the numeric can be optionally converted into L<Math::BigInt> and L<Math::BigFloat> objects.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

    print JSON::true + 1;
    => 1

    ok(JSON::true eq '1');
    ok(JSON::true == 1);

C<JSON> will install these missing overloading features to the backend modules.
A JSON null atom becomes `C<undef>` in Perl.

`C<JSON::null>` returns `C<undef>`.

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. `C<JSON>` optionally sort the hash keys (determined by the `I<canonical>` flag), so the same data structure will serialise to the same JSON text (given same settings and version of `JSON::XS`), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to `JSON::PP` using `C<tie>` mechanism.

Perl array references become JSON arrays.

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers `C<0>` and `C<1>`, which get turned into `C>false` and `C>true` atoms in JSON. You can also use `C<JSON::false>` and `C<JSON::true>` to improve readability.

```perl
to_json [0,JSON::true]  # yields [false,true]
```

These special values become JSON true and JSON false values,
respectively. You can also use C<$1> and C<$0> directly if you want.

JSON::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the
C<allow_blessed> and C<convert_blessed> methods on various options on
how to deal with this: basically, you can choose between throwing an
exception, encoding the reference as if it weren't blessed, or provide
your own serialiser method.

With C<convert_blessed_universally> mode, C<encode> converts blessed
hash references or blessed array references (contains other blessed references)
into JSON members and arrays.

use JSON -convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as
JSON C<$null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

# dump as number
encode_json [-3.0e17] # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value] # yields ["5"]

# undef becomes null
encode_json [undef] # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x"; # stringified
$x .= ""; # another, more awkward way to stringify
print $x; # perl does it for you, too, quite often

You can force the type to be a number by numifying it:
my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform, such as
infinites or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

=item Big Number

If the backend is JSON::PP and C<allow_bignum> is enable,
C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat>
objects into JSON numbers.

=back

=head1 JSON and ECMAscript

See to L<JSON::XS/JSON and ECMAscript>.

=head1 JSON and YAML

JSON is not a subset of YAML.
See to L<JSON::XS/JSON and YAML>.

=head1 BACKEND MODULE DECISION

When you use C<JSON>, C<JSON> tries to C<use> JSON::XS. If this call failed, it will
C<uses> JSON::PP. The required JSON::XS version is I<2.2> or later.

The C<JSON> constructor method returns an object inherited from the backend module,
and JSON::XS object is a blessed scalar reference while JSON::PP is a blessed hash
reference.

So, your program should not depend on the backend module, especially
returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!
To check the backend module, there are some methods - \texttt{C<backend>}, \texttt{C<is_pp>} and \texttt{C<is_xs>}.

\texttt{JSON->backend;} \# 'JSON::XS' or 'JSON::PP'

\texttt{JSON->backend->is_pp;} \# 0 or 1

\texttt{JSON->backend->is_xs;} \# 1 or 0

\texttt{$json->is_xs;} \# 1 or 0

\texttt{$json->is_pp;} \# 0 or 1

If you set an environment variable \texttt{C<PERL_JSON_BACKEND>}, the calling action will be changed.

\texttt{=over}

\texttt{=item PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'}

Always use JSON::PP

\texttt{=item PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'}

(The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

\texttt{=item PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'}

Always use compiled JSON::XS, die if it isn't properly compiled & installed.

\texttt{=item PERL_JSON_BACKEND = 'JSON::backportPP'}

Always use JSON::backportPP.

JSON::backportPP is JSON::PP back port module.

C<JSON> includes JSON::backportPP instead of JSON::PP.

\texttt{=back}

These ideas come from L<DBI::PurePerl> mechanism.

example:

\texttt{BEGIN \{ $ENV{PERL_JSON_BACKEND} = 'JSON::PP' \}}

use JSON; # always uses JSON::PP

In future, it may be able to specify another module.

\texttt{=head1 USE PP FEATURES EVEN THOUGH XS BACKEND}
Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will C<warn> and be noop.

But if you C<use> C<JSON> passing the optional string C<support_by_pp>, it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in C<de/encode>.

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a C<JSON::Backend::XS::Supportable> object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - C<loose>, C<allow_bignum>, C<allow_barekey>, C<allow_singlequote>, C<escape_slash> and C<indent_length>.

When any unsupported methods are not enable, C<XS de/encode> will be used as is. The switch is achieved by changing the symbolic tables.

C<support_by_pp> is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to L<JSON::PP SUPPORT METHODS>.

=head1 INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx). If you use old C<JSON> 1.xx in your code, please check it.

See to L<Transition ways from 1.xx to 2.xx>.

=item jsonToObj and objToJson are obsoleted.

Non Perl-style name C<jsonToObj> and C<objToJson> are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with C<from_json> and C<to_json>.

=item Global variables are no longer available.

C<JSON> class variables - C<$JSON::AUTOCONVERT>, C<$JSON::BareKey>, etc... - are not available any longer.
Instead, various features can be used through object methods.

=item Package JSON::Converter and JSON::Parser are deleted.

Now C<JSON> bundles with JSON::PP which can handle JSON more properly than them.

=item Package JSON::NotString is deleted.

There was C<JSON::NotString> class which represents JSON value C<true>, C<false>, C>null> and numbers. It was deleted and replaced by C<JSON::Boolean>.

C<JSON::Boolean> represents C<true> and C<false>.

C<JSON::Boolean> does not represent C>null>.

C<JSON::null> returns C<undef>.

C<JSON> makes L<JSON::XS::Boolean> and L<JSON::PP::Boolean> is-a relation to L<JSON::Boolean>.

=item function JSON::Number is obsoleted.

C<JSON::Number> is now needless because JSON::XS and JSON::PP have round-trip integrity.

=item JSONRPC modules are deleted.

Perl implementation of JSON-RPC protocol - C<JSONRPC>, C<JSONRPC::Transport::HTTP> and C<Apache::JSONRPC> are deleted in this distribution. Instead of them, there is L<JSON::RPC> which supports JSON-RPC protocol version 1.1.

=back

=head2 Transition ways from 1.xx to 2.xx.

You should set C<suport_by_pp> mode firstly, because it is always successful for the below codes even with JSON::XS.

    use JSON -support_by_pp;

=over

=item Exported jsonToObj (simple)

    from_json($json_text);

=item Exported objToJson (simple)
to_json($perl_scalar);

=item Exported jsonToObj (advanced)

$flags = {allow_barekey => 1, allow_singlequote => 1};
from_json($json_text, $flags);

equivalent to:

$JSON::BareKey = 1;
$JSON::QuotApos = 1;
jsonToObj($json_text);

=item Exported objToJson (advanced)

$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);

equivalent to:

$JSON::BareKey = 1;
objToJson($perl_scalar);

=item jsonToObj as object method

$json->decode($json_text);

=item objToJson as object method

$json->encode($perl_scalar);

=item new method with parameters

The C<new> method in 2.x takes any parameters no longer.
You can set parameters instead;

$json = JSON->new->pretty;

=item $JSON::Pretty, $JSON::Indent, $JSON::Delimiter

If C<indent> is enable, that means C<$JSON::Pretty> flag set. And
C<$JSON::Delimiter> was substituted by C<space_before> and C<space_after>.
In conclusion:

$json->indent->space_before->space_after;

Equivalent to:
$json->pretty;

To change indent length, use C<indent_length>.

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

=item $JSON::BareKey

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$json->allow_barekey->decode($json_text)

=item $JSON::ConvBlessed

use C<-convert_blessed_universally>. See to L<convert_blessed>.

=item $JSON::QuotApos

(Only with JSON::PP, if C<-support_by_pp> is not used.)

$json->allow_singlequote->decode($json_text)

=item $JSON::SingleQuote

Disable. C<JSON> does not make such a invalid JSON string any longer.

=item $JSON::KeySort

$json->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the C<sort_by> method.

(Only with JSON::PP, even if C<-support_by_pp> is used currently.)

$json->sort_by($sort_routine_ref)->encode($perl_scalar)

$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access C<$a> and C<$b> but C<$JSON::PP::a> and C<$JSON::PP::b>.

=item $JSON::SkipInvalid

$json->allow_unknown
Needless. C<JSON> backend modules have the round-trip integrity.

Needless because C<JSON> (JSON::XS/JSON::PP) sets the UTF8 flag on properly.

# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "" . chr(1000) . ""; # UTF8-flagged

$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

Disable. See to L<MAPPING>.

This option was deleted. Instead of it, if a given blessed object has the C<TO_JSON> method, C<TO_JSON> will be executed with C<convert_blessed>.

$json->convert_blessed->encode($blessed_hashref_or_arrayref)
# if need, call allow_blessed

Note that it was C<toJson> in old version, but now not C<toJson> but C<TO_JSON>.

=back
=head1 TODO

=over

=item example programs

=back

=head1 THREADS

No test with JSON::PP. If with JSON::XS, See to L<JSON::XS/THREADS>.

=head1 BUGS

Please report bugs relevant to C<JSON> to E<lt>makamaka[at]cpan.orgE<gt>.

=head1 SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

L<JSON::XS>, L<JSON::PP>

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

=head1 COPYRIGHT AND LICENSE

Copyright 2005-2013 by Makamaka Hannyaharamitu

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/1143253037_1615553069.82/0/libjson-perl-2-90-orig-1-tar-gz/JSON-2.90/lib/JSON.pm
No license file was found, but licenses were detected in source scan.

JSON version 2.58

"JSON::PP" was earlier included in the "JSON" distribution, but has since Perl 5.14 been a core module. For this reason, "JSON::PP" was removed from the "JSON" distribution and can now be found also in the Perl5 repository at

http://perl5.git.perl.org/perl.git

(The newest "JSON::PP" version still exists in CPAN.)

Instead, the "JSON" distribution will include "JSON::backportPP" for backwards computability. JSON.pm should thus work as it did before.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
test
make install

if you use cpanm, can install JSON::XS at once.

cpanm --with-recommends JSON

NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;
$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar );  # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

use JSON -support_by_pp;

# option-acceptable interfaces (expect/generate UNICODE by default)

$json_text = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
$perl_scalar = from_json( $json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

VERSION
2.90

This version is compatible with JSON::XS 2.34 and later.
(Not yet compatible to JSON::XS B<3.0x>.)

NOTE
JSON::PP was earlier included in the "JSON" distribution, but has since
Perl 5.14 been a core module. For this reason, JSON::PP was removed from
the JSON distribution and can now be found also in the Perl5 repository
at

*   <http://perl5.git.perl.org/perl.git>

(The newest JSON::PP version still exists in CPAN.)

Instead, the "JSON" distribution will include JSON::backportPP for
backwards computability. JSON.pm should thus work as it did before.

DESCRIPTION

**************************************************** CAUTION ****************************************************
*   *
* INCOMPATIBLE CHANGE (JSON::XS version 2.90)  *
*   *
* JSON.pm had patched JSON::XS::Boolean and JSON::PP::Boolean internally *
* on loading time for making these modules inherit JSON::Boolean.  *
* But since JSON::XS v3.0 it use Types::Serialiser as boolean class.  *
* Then now JSON.pm breaks boolean class overload features and  *
* -support_by_pp if JSON::XS v3.0 or later is installed.  *

Open Source Used In Virtual Topology System 2.6.7 5181
* JSON::true and JSON::false returned JSON::Boolean objects.
* For workaround, they return JSON::PP::Boolean objects in this version.
*  
*   isa_ok(JSON::true, 'JSON::PP::Boolean');
*  
* And it discards a feature:
*  
*   ok(JSON::true eq 'true');
*  
* In other word, JSON::PP::Boolean overload numeric only.
*  
*   ok( JSON::true == 1 );
*  
**************************************************************************

************************** CAUTION ********************************
* This is 'JSON module version 2' and there are many differences  *
* to version 1.xx                                                 *
* Please check your applications using old version.               *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION'                    *
*******************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to
<http://www.json.org/> and

This module converts Perl data structures to JSON and vice versa using
either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must
be compiled and installed in your environment. JSON::PP is a pure-Perl
module which is bundled in this distribution and has a strong
compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP
instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the
former is quoted by C<> (its results vary with your using media), and
the latter is left just as it is.

Module name : "JSON"

Format type : JSON
FEATURES

* correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions "JSON" should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/ CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There *are* minor exceptions to this, read the "MAPPING" section below to learn about those.

* strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.
* simple to use

This module has both a simple functional interface as well as an object oriented interface.

* reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

FUNCTIONAL INTERFACE
Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.

encode_json
$jsontext = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$jsontext = JSON->new->utf8->encode($perl_scalar)

decode_json
$perl_scalar = decode_json $jsontext

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->new->utf8->decode($jsontext)

to_json
$jsontext = to_json($perl_scalar)

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

$jsontext = JSON->new->encode($perl_scalar)
Takes a hash reference as the second.

    $json_text = to_json($perl_scalar, $flag_hashref)

So,

    $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})

equivalent to:

    $json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

If you want to write a modern perl code which communicates to outer world, you should use "encode_json" (supposed that JSON data are encoded in UTF-8).

from_json

    $perl_scalar = from_json($json_text)

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

    $perl_scalar = JSON->decode($json_text)

Takes a hash reference as the second.

    $perl_scalar = from_json($json_text, $flag_hashref)

So,

    $perl_scalar = from_json($json_text, {utf8 => 1})

equivalent to:

    $perl_scalar = JSON->new->utf8(1)->decode($json_text)

If you want to write a modern perl code which communicates to outer world, you should use "decode_json" (supposed that JSON data are encoded in UTF-8).

JSON::is_bool

    $is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.
JSON::true
Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

JSON::false
Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

JSON::null
Returns "undef".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER
This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use "decode_json" or "JSON" module object with "utf8" enable. And the decoded result will contain UNICODE characters.

# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/;
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json( $json_text );

If an outer data is not encoded in UTF-8, firstly you should "decode" it.

use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;
In this case, $unicode_json_text is of course UNICODE string. So you
cannot use "decode_json" nor "JSON" module object with "utf8" enable.
Instead of them, you use "JSON" module object with "utf8" disable or
"from_json".

    $perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
    # or
    $perl_scalar = from_json( $unicode_json_text );

Or "encode 'utf8'" and "decode_json":

    $perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
    # this way is not efficient.

And now, you want to convert your $perl_scalar into JSON data and send
it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted
data to be encoded in UTF-8, you should use "encode_json" or "JSON"
module object with "utf8" enable.

    print encode_json( $perl_scalar ); # to a network? file? or display?
    # or
    print $json->utf8->encode( $perl_scalar );

If $perl_scalar does not contain UNICODE but $encoding-encoded strings
for some reason, then its characters are regarded as latin1 for perl
(because it does not concern with your $encoding). You cannot use
"encode_json" nor "JSON" module object with "utf8" enable. Instead of
them, you use "JSON" module object with "utf8" disable or "to_json".
Note that the resulted text is a UNICODE string but no problem to print
it.

    # $perl_scalar contains $encoding encoded string values
    $unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
    # or
    $unicode_json_text = to_json( $perl_scalar );
    # $unicode_json_text consists of characters less than 0x100
    print $unicode_json_text;

Or "decode $encoding" all string values and "encode_json":

    $perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
    # ... do it to each string values, then encode_json
    $json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.
See to Encode, perluniintro.

COMMON OBJECT-ORIENTED INTERFACE
new
   $json = JSON->new

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls can be chained:

   my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
   => {"a": [1, 2]}

ascii
   $json = $json->ascii([$enable])

   $enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \\uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

   JSON->new->ascii(1)->encode([chr 0x10401])
   => ["\ud801\udc01"]

latin1
   $json = $json->latin1([$enable])

   $enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode
If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
```

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

```perl
$json->indent->space_before->space_after
```

The indent space length is three and JSON::XS cannot change the indent
indent

```perl
$json = $json->indent([$enable])

$enabled = $json->get_indent
```

If `$enable` is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, identifying them properly.

If `$enable` is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access "indent_length" to change indent space length.

space_before

```perl
$json = $json->space_before([$enable])

$enabled = $json->get_space_before
```

If `$enable` is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If `$enable` is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

```json
{"key" :"value"}
```

space_after

```perl
$json = $json->space_after([$enable])

$enabled = $json->get_space_after
```

If `$enable` is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If `$enable` is false, then the "encode" method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```json
{"key": "value"}
```

relaxed

```php
$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed
```

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

  JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

  ```json
  [  
    1,  
    2, <- this comma not normally allowed 
  ]
  
  {  
    "k1": "v1",  
    "k2": "v2", <- this comma not normally allowed  
  }

  ```

* shell-style `#`-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.
canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

$JSON->new->allow_nonref->encode ('Hello, World!')
=> "Hello, World!"

allow_unknown

$json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown
If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

```perl
$json = $json->allow_blessed($enable)
```

$enabled = $json->get_allow_blessed

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no "TO_JSON" method found) or a representation of the object ("convert_blessed" enabled and "TO_JSON" method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

convert_blessed

```perl
$json = $json->convert_blessed($enable)
```

$enabled = $json->get_convert_blessed

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no "TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.
If $enable is false, then the "allow_blessed" setting will decide what
to do when a blessed object is found.

convert_blessed_universally mode
If use "JSON" with "-convert_blessed_universally", the
"UNIVERSAL::TO_JSON" subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? %{ $_[0] }
        : $b_obj->isa('B::AV') ? @[ $_[0] ]
        : undef
    ;
}

This will cause that "encode" method converts simple blessed objects
into JSON objects as non-blessed object.

JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )

This feature is experimental and may be removed in the future.

filter_json_object
$json = $json->filter_json_object([$coderef])

When $coderef is specified, it will be called from "decode" each time it
decodes a JSON object. The only argument passed to the coderef is a
reference to the newly-created hash. If the code references returns a
single scalar (which need not be a reference), this value (i.e. a copy
of that scalar to avoid aliasing) is inserted into the deserialised data
structure. If it returns an empty list (NOTE: *not* "undef", which is a
valid scalar), the original deserialised hash will be inserted. This
setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be
removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON->new->filter_json_object(sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2"}');
filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to "filter_json_object", but is only called for
JSON objects having a single key named $key.

This $coderef is called before the one specified via
"filter_json_object", if any. It gets passed the single value in the
JSON object. If it returns a single value, it will be inserted into the
data structure. If it returns nothing (not even "undef" but the empty
list), the callback from "filter_json_object" will be called next, as if
no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object"
one, decoding speed will not usually suffer as much. Therefore,
single-key objects make excellent targets to serialise Perl objects
into, especially as single-key JSON objects are as close to the
type-tagged value concept as JSON gets (it's basically an ID/VALUE
tuple). Of course, JSON does not support this in any way, so you need to
make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or
"$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even
things like "__class_md5sum(classname)__", to reduce the risk of
clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into
the corresponding $WIDGET{<id>} object:

# return whatever is in $WIDGET{5}:
JSON
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
  })
  ->decode ("{"__widget__": 5"")

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;
  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }
  return $self;
}
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either "encode" or "decode" to their minimum size possible. This can save memory when your JSON texts are either very very long or you have many short strings. It will also try to downgrade any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries "utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in JSON::PP.

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "[" or "]" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set
and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

decode

$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)
This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

```
JSON->new->decode_prefix ("[1 ] the tail")
=> ([], 3)
```

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property

```
$boolean = $json->property($property_name)
```

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8", "indent","space_before", "space_after", "relaxed", "canonical", "allow_nonref", "allow_unknown", "allow_blessed", "convert_blessed", "shrink", "max_depth" and "max_size".

```
$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1
```

Sets the property with a given boolean value.

```
$json = $json->property($property_name => $boolean);
```

With no argument, it returns all the above properties as a hash reference.

```
$flag_hashref = $json->property();
```

**INCREMENTAL PARSING**

Most of this section are copied and modified from "INCREMENTAL PARSING" in JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple
but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse ("[5][7][1,2]");

incr_text
$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

$json->incr_text =~ s/\s*,\s*//;

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:

$string = $json->incr_text;
$string =~ s/\s*,\s*//;
$json->incr_text( $string );

incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to "INCREMENTAL PARSING" in JSON::XS for examples.

JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when "JSON" works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to "JSON::PP OWN METHODS" in JSON::PP in detail.
If you use "JSON" with additional "-support_by_pp", some methods are available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS BACKEND".

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(["/"], {escape_slash => 1});
print from_json('["foo"]', {utf8 => 1});

If you do not want to all functions but "-support_by_pp", use "-no_export".

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

allow_singlequote
   $json = $json->allow_singlequote([$enable])

If $enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

   $json->allow_singlequote->decode({"foo":"bar"});
   $json->allow_singlequote->decode({'foo':'bar'});
   $json->allow_singlequote->decode({'foo':'bar'});

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow_barekey
   $json = $json->allow_barekey([$enable])

If $enable is true (or missing), then "decode" will accept bare keys of JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

   $json->allow_barekey->decode("{foo:"bar"}");

allow_bignum
   $json = $json->allow_bignum([$enable])
If $enable is true (or missing), then "decode" will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.

```perl
$allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000001
```

See to MAPPING about the conversion of JSON number.

**loose**

```perl
$json = $json->loose([$enable])
```

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for \x2f). If $enable is true (or missing), then "decode" will accept these unescaped strings.

```perl
$json->loose->decode(qq|["abc
def"]|);
```

See to "JSON::PP OWN METHODS" in JSON::PP.

**escape_slash**

```perl
$json = $json->escape_slash([$enable])
```

According to JSON Grammar, *slash* (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If $enable is true (or missing), then "encode" will escape slashes.

**indent_length**

```perl
$json = $json->indent_length($length)
```

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

**sort_by**

```perl
$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)
```

If $function_name or $subroutine_ref are set, its sort routine are used.
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with 'JSON::PP::'.

If $integer is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

MAPPING

This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

JSON -> PERL

object
A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

array
A JSON array becomes a reference to an array in Perl.

string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number
A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string.
value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, "JSON" only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

print JSON::true + 1;
=> 1

ok(JSON::true eq '1');
ok(JSON::true == 1);

"JSON" will install these missing overloading features to the backend modules.

null
A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a
program. "JSON" optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

    to_json [0,JSON::true]  # yields [false,true]

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

JSON::null returns "undef".

blessed objects
Blessed objects are not directly representable in JSON. See the "allow_blessed" and "convert_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

    use JSON -convert_blessed_universally;
    JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to convert_blessed.

simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:
# dump as number
encode_json [-3.0e17]               # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]               # yields ["5"]

# undef becomes null
encode_json [undef]                 # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x .= "";   # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

Big Number
If the backend is JSON::PP and "allow bignum" is enable, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers.

JSON and ECMAscript
See to "JSON and ECMAscript" in JSON::XS.

JSON and YAML
JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION
When you use "JSON", "JSON" tries to "use" JSON::XS. If this call
failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2* or later.

The "JSON" constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scalar reference while JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->[stash] = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - "backend", "is_pp" and "is-xs".

    JSON->backend; # 'JSON::XS' or 'JSON::PP'

    JSON->backend->is_pp: # 0 or 1

    JSON->backend->is_xxs: # 1 or 0

    $json->is_xxs; # 1 or 0

    $json->is_pp; # 0 or 1

If you set an environment variable "PERL_JSON_BACKEND", the calling action will be changed.

    PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
    Always use JSON::PP

    PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
    (The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

    PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
    Always use compiled JSON::XS, die if it isn't properly compiled & installed.

    PERL_JSON_BACKEND = 'JSON::backportPP'
    Always use JSON::backportPP. JSON::backportPP is JSON::PP back port module. "JSON" includes JSON::backportPP instead of JSON::PP.

These ideas come from DBI::PurePerl mechanism.

example:
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }

use JSON; # always uses JSON::PP

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS BACKEND

Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will "warn" and be noop.

But If you "use" "JSON" passing the optional string "-support_by_pp", it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in "de/encode".

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a "JSON::Backend::XS::Supportable" object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - "loose", "allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx).
If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.

Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from_json" and "to_json".

Global variables are no longer available.

"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc...
- are not available any longer. Instead, various features can be used through object methods.
Package JSON::Converter and JSON::Parser are deleted.
   Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.
   There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
   "JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
   Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
   You should set "support_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

   use JSON -support_by_pp;

   Exported jsonToObj (simple)
      from_json($json_text);

   Exported objToJson (simple)
      to_json($perl_scalar);

   Exported jsonToObj (advanced)
      $flags = {allow_barekey => 1, allow_singlequote => 1};
      from_json($json_text, $flags);

   equivalent to:

      $JSON::BareKey = 1;
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$JSON::QuotApos = 1;
jsonToObj($json_text);

Exported objToJson (advanced)
$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);

equivalent to:

$JSON::BareKey = 1;
objToJson($perl_scalar);

jsonToObj as object method
$json->decode($json_text);

objToJson as object method
$json->encode($perl_scalar);

new method with parameters
The "new" method in 2.x takes any parameters no longer. You can set
parameters instead;

$json = JSON->new->pretty;

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter
If "indent" is enable, that means $JSON::Pretty flag set. And
$JSON::Delimiter was substituted by "space_before" and
"space_after". In conclusion:

$json->indent->space_before->space_after;

Equivalent to:

$json->pretty;

To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

$JSON::BareKey
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_barekey->decode($json_text)

$JSON::ConvBlessed
use "-convert_blessed_universally". See to convert_blessed.
$JSON::QuotApos
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_singlequote->decode($json_text)

$JSON::SingleQuote
Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort
$json->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the "sort_by"
method.

(Only with JSON::PP, even if "-support_by_pp" is used currently.)

$json->sort_by($sort_routine_ref)->encode($perl_scalar)

$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access $a and $b but $JSON::PP::a and $JSON::PP::b.

$JSON::SkipInvalid
$json->allow_unknown

$JSON::AUTOCONVERT
Needless. "JSON" backend modules have the round-trip integrity.

$JSON::UTF8
Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on
properly.

# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "". chr(1000) . ""; # UTF8-flagged
$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$JSON::UnMapping
  Disable. See to MAPPING.

$JSON::SelfConvert
  This option was deleted. Instead of it, if a given blessed object
  has the "TO_JSON" method, "TO_JSON" will be executed with
  "convert_blessed".

  $json->convert_blessed->encode($blessed_hashref_or_arrayref)
  # if need, call allow_blessed

  Note that it was "toJson" in old version, but now not "toJson" but
  "TO_JSON".

TODO
  example programs

THREADS
  No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS
  Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO
  Most of the document is copied and modified from JSON::XS doc.

  JSON::XS, JSON::PP

  "RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

AUTHOR
  Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

  JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

  The release of this new version owes to the courtesy of Marc Lehmann.

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

=pod
=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

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---
abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: JSON
no_index:
directory:
  - t
  - inc
recommends:
  JSON::XS: 2.34
requires:
  Test::More: 0
resources:
  repository: https://github.com/makamaka/JSON
version: 2.90

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=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

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#!/usr/bin/perl

test strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----------------------------------\n";
printf( "->encode()\n" );
print "-----------------------------------\n";
$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->encode( $perl ) },
      'JSON::XS' => sub { $xs->encode( $perl ) },
    });
print "-----------------------------------\n";

print "->pretty->canonical->encode()\n";
print "-----------------------------------\n";
$pp->pretty->canonical;
$xs->pretty->canonical;

$result = timethese( -$wanttime,
   { 'JSON::PP' => sub { $pp->encode( $perl ) },
     'JSON::XS' => sub { $xs->encode( $perl ) },
   },
   'none'
);
cmpthese( $result );

print "-----------------------------------\n";

__END__

=pod

=head1 SYNOPSIS

bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

=head1 LIENCE

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#!/usr/bin/perl
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s
", JSON::PP->VERSION );
printf( "JSON::XS %s
", JSON::XS->VERSION );

print "-----------------------------------
";
print "->decode()
";
print "-----------------------------------
";

$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->decode( $json ) },
      'JSON::XS' => sub { $xs->decode( $json ) },
    },
   'none'
);

cmpthese( $result );

print "-----------------------------------
";

__END__

=head1 SYNOPSIS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

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Found in path(s):
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1.445 cyrus-sasl 2.1.27+dfsg-2.1

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.446 commons-lang3 2.6

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* /opt/cola/permits/1144946217_1623988492.36/0/powermock-module-junit4-common-1-6-2-sources-2-
  jar/org/powermock/modules/junit4/common/internal/impl/VersionComparator.java
* /opt/cola/permits/1144946217_1623988492.36/0/powermock-module-junit4-common-1-6-2-sources-2-
  jar/org/powermock/modules/junit4/common/internal/impl/VersionTokenizer.java
* /opt/cola/permits/1144946217_1623988492.36/0/powermock-module-junit4-common-1-6-2-sources-2-
  jar/org/powermock/modules/junit4/common/internal/impl/JUnitVersion.java

1.459 language-pack-gnome-en

16.04+20161009

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 * The implementation was written so as to conform with Netscapes SSL.
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1.463 bcrypt 2.0.0

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1.464 e2fsprogs 1.42.13 1ubuntu1.2

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

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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/

From the original distribution:

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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)
Open Source Used In Virtual Topology System 2.6.7 5360

#

call:: image

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

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

image:$(BSLIB_LIB)

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

install-shlibs install: $(BSLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSLIB_LIB)"
@$ (INSTALL_PROGRAM) $(BSLIB_LIB)
$(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSLIB_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall:
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSLIB_LIB)

clean:
$(RM) -rf pic
$(RM) -f $(BSLIB_LIB)
$(RM) -f $(BSLIB_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:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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1.469 cffi 1.13.1

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1.470 icu 55.1-7ubuntu0.5

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### -.makefile. *

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

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

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
1.471 **jackson-dataformat-yaml 2.4.2**

**1.471.1 Available under license:**

# Jackson JSON processor

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

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1.472 **busybox 1.22.0 15ubuntu1.4**

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/util/CommonSwing.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/util/OracleTransferHelper.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/util/GridSwing.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/util/HelperFactory.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/server/HsqlSocketRequestHandler.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/util/hsqldb/ConnectionDialogSwing.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2.4.0-sources-3-jar/org/hsqldb/test/TestKarl.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/OrderedLongHashSet.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/auth/HsqldbSlaveAuthBean.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/TableSpaceManager.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/SqlArrayList.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/tar/DbBackup.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/PersistentStoreCollection.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestUpdatableResults.java
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SqlFile processor v. %.

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\q to Quit.
\? lists Special Commands.
:? lists Edit-Buffer/History commands.
*? lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with \ and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ‘;’ (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).

After turning on variable expansion with command "*" (or any other PL command), PL variables may be used in most commands like so: *{PLVARNAME}.

Be aware when using regular expressions on commands, that the regex.s operate only on the command text after the * or \ prefix, if any.

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 * provides cross-package access to the proprietary (i.e. non-JDBC)
 * HSQLDB session interface. <P>
 *
 * @return the underlying sessionProxy for this connection
 */

Found in path(s):
*/opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/jdbc/JDBCConnection.java
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  jar/org/hsqldb/util/preprocessor/Document.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/AntResolver.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/Option.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/IResolver.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/Line.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/Defines.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/Token.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/PreprocessorException.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/Parser.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/util/preprocessor/BasicResolver.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/util/preprocessor/LineType.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/util/preprocessor/Tokenizer.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/util/preprocessor/Preprocessor.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/JDBCNClob.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/server/ServerConfiguration.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestLikePredicateOptimizations.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestExpressionArrayAggregate.java
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  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/RAFileSimple.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/tar/RB.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/OrderedHashSet.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestTextTable.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestDBCSavepoints.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/RoutineSchema.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/CachedObject.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/EventLogInterface.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/rowio/RowInputBinary180.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestSchemaParse.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/LobStoreRAFile.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestScript.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/CachedObjectBase.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/server/OdbcPacketOutputStream.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/EventLogInterface.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/rowio/RowOutputInterface.java
  */opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/rowio/RowInputBinaryDecode.java

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Comprehensive information about the database as a whole.

This interface is implemented by driver vendors to let users know the capabilities of a Database Management System (DBMS) in combination with the driver based on JDBC technology. (“JDBC driver”) that is used with it. Different relational DBMSs often support different features, implement features in different ways, and use different data types. In addition, a driver may implement a feature on top of what the DBMS offers. Information returned by methods in this interface applies to the capabilities of a particular driver and a particular DBMS working together. Note that as used in this documentation, the term "database" is used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to deal with the underlying DBMS. This is especially true for applications that are intended to be used with more than one DBMS. For example, a tool might use the method <code>getTypeInfo</code> to find out what data types can be used in a <code>CREATE TABLE</code> statement. Or a user might call the method <code>supportsCorrelatedSubqueries</code> to see if it is possible to use a correlated subquery or <code>supportsBatchUpdates</code> to see if it is possible to use batch updates.

Some <code>DatabaseMetaData</code> methods return lists of information in the form of <code>ResultSet</code> objects. Regular <code>ResultSet</code> methods, such as <code>getString</code> and <code>getInt</code>, can be used...
* to retrieve the data from these <code>ResultSet</code> objects. If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.
* <p>
* Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns. These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search pattern are returned. If a search pattern
* argument is set to <code>null</code>, that argument's criterion will
* be dropped from the search.
* <p>
* A method that gets information about a feature that the driver does not
* support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code>
* object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an <code>SQLException</code> is thrown.
* <p>
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h3>HSQLDB-Specific Information:</h3>
* <h4>Metadata Table Production</h4>
* 
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free access to
* all metadata.<p>
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime. In the event that no better
* alternative is found, the default minimal (completely restricted) provider
* is selected. Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
* Please also note that in addition to the metadata tables produced to
* directly support this class, starting with HSQLDB 1.7.2, the default build...
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the [ @link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...) ] and [ @link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...) ] results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.<p>
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects. </p>

* <h4>Schema Metadata</h4>
*
* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
*
* <h4>Catalog Metadata</h4>
*
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>
*
* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>
*
* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental 'hsqldb.schemas' database property was retired. <p>
*
* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
* has been retired and replaced with the convention that, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
such as opening, manipulating or querying against multiple database catalogs within a single session, not even in a one-at-a-time fashion.

### Index Metadata

It must still be noted that as of the most recent release, HSQLDB continues to ignore the `approximate` argument of `getIndexInfo()` as no data is returned for CARDINALITY and PAGES columns.

### Notes for developers extending metadata table production

Note that in the absence of an ORDER BY clause, queries against the metadata tables that directly support this class are expected to return rows in JDBC contract order. The reason for this is that results typically come back much faster when no "ORDER BY" clause is used. <p>

As such, when adding, extending or replacing a JDBC database metadata table production routine, developers need to be aware of this fact and either add the contract "ORDER BY" clause to the driving SQL or, when possible, preferably maintain rows in the contract order by correctly coding the primary index definition in the table producer class.

</div>

(fredt@users)<br>
(campbell-burnet@users)
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/Routine.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/ArraySort.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/HsqlList.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/rowio/RowInputInterface.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/scriptio/ScriptWriterText.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/persist/TextTableStorageManager.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/persist/DataFileCacheSession.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/persist/RowStoreAVLDiskData.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/persist/RowStoreAVLDiskData.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/StatementResultUpdate.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-
  jar/org/hsqldb/persist/TextFileReader.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/map/ValuePoolHashMap.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/SessionManager.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/result/ResultLob.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/map/HashIndex.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/server/PgType.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/test/TestPeriodPredicates.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/rowio/RowOutputText.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/jdbc/JDBCConnectionEventListener.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/tar/TarGenerator.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/types/RowType.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/Log.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/lib/IntKeyLongValueHashMap.java
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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/types/TimestampData.java
* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/rowio/RowOutputTextLog.java

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* /opt/cola/permits/1136663269_1613850764.01/0/hsqldb-2-4-0-sources-3-jar/org/hsqldb/Server.java
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-----------------------------

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-------------------------------------
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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 3a0982da308228d796df35f98d787c5cff2bb5b6.

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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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1.487 amd64-microcode

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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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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  jar/org/jose4j/keys/AesKey.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwa/AlgorithmFactory.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/keys/EllipticCurves.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwt/JwtClaims.java
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwe/ContentEncryptionKeys.java
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  jar/org/jose4j/jwk/RsaJwkGenerator.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwa/AlgorithmConstraints.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/lang/DefaultByteGenerator.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwt/validator/Validator.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwa/ContentEncryptionAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwa/ContentEncryptionAlgorithm.java
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  jar/org/jose4j/jwa/ContentEncryptionAlgorithm.java
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jws/SignatureAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/KeyOperations.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jws/ContentEncryptionAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/JsonWebKey.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwt/IntDate.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/JsonWebEncryption.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/JsonWebKey.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwt/ReservedClaimNames.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/JsonWebSignatureAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/JwksVerificationKeyResolver.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/Headers.java
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/RsaJsonWebKey.java

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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/HttpsJwks.java

* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/lang/InvalidKeyException.java

* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j/jwk/SelectorSupport.java

* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java
1.491 aop-alliance 2.5.0

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1.492 file 5.25-2ubuntu1.4

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1.493 python-setuptools 41.6.0

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* /opt/cola/permits/1144946317_1633499427.93/0/libauthen-tacacsplus-perl-0-26-orig-1-tar-gz/Authen-TacacsPlus-0.26/tacpluslib/parse.h
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---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
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dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.142060'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Authen-TacacsPlus
no_index:
directory:
  - t
  - inc
requires: {}
version: '0.26'

Found in path(s):
* /opt/cola/permits/1144946317_1633499427.93/0/libauthen-tacacsplus-perl-0-26-orig-1-tar-gz/Authen-TacacsPlus-
1.495 cron 3.0pl1 128ubuntu2

1.496 ossp-uuid 1.6.2-1.5build2

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** of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
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** uuid.h: library API definition
*/

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**
** uuid_str.h: string formatting functions
*/

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** uuid_sha1.h: SHA-1 API definition
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 ** uuid_str.c: string formatting functions
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** uuid.c: PostgreSQL Binding (C part)
*/

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** ui64.h: API declaration
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  * uuid_time.c: Time Management
  */

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##
## uuid.pod: manual page
##

=pod

=head1 NAME

B< OSSP uuid> - B< Universally Unique Identifier>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B< OSSP uuid> is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B< OSSP uuid>.
According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
+------------------------+------------------------+------------------------+------------------------+
|   version              |
|                        |
| -->| | <--    |
|    | |        |
| [4] | |
| | | [16] |
| [32] | [16] | [time_hi] | [time_mid] | [_and_version] |
|<------------------------||<------------------------||<------------------------|
|   MSB                      ||    |           |
|    ||    |           |
| /   ||    |           |
| /    ||    |           |
+------------------------+------------------------+------------------------+------------------------+
```

An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0x0A 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B< OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under
According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```plaintext
uuid = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> "-" <clock_seq_low> "-" <node>

time_low = 4*<hex_octet>
time_mid = 2*<hex_octet>
time_high_and_version = 2*<hex_octet>
clock_seq_high_and_reserved = <hex_octet>
clock_seq_low = <hex_octet>
node = 6*<hex_octet>

hex_octet = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
            |"a"|"b"|"c"|"d"|"e"|"f"
            |"A"|"B"|"C"|"D"|"E"|"F"
```

An example of a UUID string representation is the ASCII string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_STR>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C<urn:uuid:" as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>.
Notice: a corresponding ISO OID can be generated under the
"{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value
representation of a UUID by prefixing with "C<2.25.>". An example OID
is "C<2.25.3298007356985866629295641978511506172918>". Additionally,
an URL can be generated by further prefixing with "C<urn:oid:>", as in
"C<urn:oid:2.25.3298007356985866629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the
UUID. The version defines the content of the UUID. The UUID variant
supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID
variant versions supported in B<OSSP uuid> are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time,
a 14-bit local clock sequence and 48-bit system MAC address. The MAC
address can be either the real one of a physical network interface card
(NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually
used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)

These are UUIDs which are based on the 128-bit MD5 message digest of the
concatenation of a 128-bit namespace UUID and a name string of arbitrary
length. Version 3 UUIDs are usually used for non-unique but repeatable
message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version
4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the
concatenation of a 128-bit namespace UUID and a name string of arbitrary
length. Version 5 UUIDs are usually used for non-unique but repeatable
message digest identifiers.

=back

=head2 UUID Uniqueness

Version 1 UUIDs are guaranteed to be unique through combinations of
hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version 4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special I<Nil> UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of B<OSSP uuid> consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=over 4

=item B<UUID_VERSION>

The hexadecimal encoded B<OSSP uuid> version. This allows compile-time checking of the B<OSSP uuid> version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>,$I<r>$I<t>$I<l>" is calculated with the B<GNU shtool> B<version> command and is (in Perl-style for concise description) "sprintf('0x%x%02x%d%02x', $I<v>, $I<r>, \{qw(s 9 . 2 b 1 a 0)}->[{$I<t>}, ($I<t> eq 's' ? 99 : $I<l>)]",}
i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) do not include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=back

=head2 FUNCTIONS

The following functions are provided:

=over 4

=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);

Create a new UUID object and store a pointer to it in C<*I<uuid>>. A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and
timestamp information. The initial UUID is the \texttt{I\verb+Nil+} UUID.

\texttt{=item uuid\_rc\_t B<uuid\_destroy>(uuid\_t *I<uuid>);}

Destroy UUID object \texttt{I<uuid>}.

\texttt{=item uuid\_rc\_t B<uuid\_clone>(const uuid\_t *I<uuid>, uuid\_t **I<uuid\_clone>);}

Clone UUID object \texttt{I<uuid>} and store new UUID object in \texttt{I<uuid\_clone>}.

\texttt{=item uuid\_rc\_t B<uuid\_isnil>(const uuid\_t *I<uuid>, int *I<result>);}

Checks whether the UUID in \texttt{I<uuid>} is the \texttt{I\verb+Nil+} UUID. If this is the case, it returns \texttt{I<true>} in \texttt{C<*>I<result>}. Else it returns \texttt{I<false>} in \texttt{C<*>I<result>}.

\texttt{=item uuid\_rc\_t B<uuid\_compare>(const uuid\_t *I<uuid>, const uuid\_t *I<uuid\_2>, int *I<result>);}

Compares the order of the two UUIDs in \texttt{I<uuid\_1>} and \texttt{I<uuid\_2>} and returns the result in \texttt{C<*>I<result>}: \texttt{C<-1>} if \texttt{I<uuid\_1>} is smaller than \texttt{I<uuid\_2>}, \texttt{C<0>} if \texttt{I<uuid\_1>} is equal to \texttt{I<uuid\_2>} and \texttt{C<+1>} if \texttt{I<uuid\_1>} is greater than \texttt{I<uuid\_2>}.

\texttt{=item uuid\_rc\_t B<uuid\_import>(uuid\_t *I<uuid>, uuid\_fmt\_t I<fmt>, const void *I<data\_ptr>, size\_t I<data\_len>);}

Imports a UUID \texttt{I<uuid>} from an external representation of format \texttt{I<fmt>}. The data is read from the buffer at \texttt{I<data\_ptr>} which contains at least \texttt{I<data\_len>} bytes.

The format of the external representation is specified by \texttt{I<fmt>} and the minimum expected length in \texttt{I<data\_len>} depends on it. Valid values for \texttt{I<fmt>} are \texttt{B<UUID\_FMT\_BIN>}, \texttt{B<UUID\_FMT\_STR>} and \texttt{B<UUID\_FMT\_SIV>}.

\texttt{=item uuid\_rc\_t B<uuid\_export>(const uuid\_t *I<uuid>, uuid\_fmt\_t I<fmt>, void *I<data\_ptr>, size\_t *I<data\_len>);}

Exports a UUID \texttt{I<uuid>} into an external representation of format \texttt{I<fmt>}. Valid values for \texttt{I<fmt>} are \texttt{B<UUID\_FMT\_BIN>}, \texttt{B<UUID\_FMT\_STR>}, \texttt{B<UUID\_FMT\_SIV>} and \texttt{B<UUID\_FMT\_TXT>}.

The data is written to the buffer whose location is obtained by dereferencing \texttt{I<data\_ptr>} after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument \texttt{I<data\_ptr>} is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "\texttt{C<unsigned char **}>" for \texttt{B<UUID\_FMT\_BIN>} and "\texttt{C<char **}>" for \texttt{B<UUID\_FMT\_STR>}, \texttt{B<UUID\_FMT\_SIV>} and \texttt{B<UUID\_FMT\_TXT>}.
The buffer has to be room for at least C<*>I<data_len> bytes. If the value of the pointer after "casting" and dereferencing I<data_ptr> is C<NULL>, I<data_len> is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing I<data_ptr> (the caller has to free(3) it later on).

If I<data_len> is not C<NULL>, the number of available bytes in the buffer has to be provided in C<*I<data_len> and the number of actually written bytes are returned in C<*I<data_len> again. The minimum required buffer length depends on the external representation as specified by I<fmt> and is at least B<UUID_LEN_BIN> for B<UUID_FMT_BIN>, B<UUID_LEN_STR> for B<UUID_FMT_STR> and B<UUID_LEN_SIV> for B<UUID_FMT_SIV>. For B<UUID_FMT_TXT> a buffer of unspecified length is required and hence it is recommended to allow B<OSSP uuid> to allocate the buffer as necessary.

=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I{name});

Loads a pre-defined UUID value into the UUID object I<uuid>. The following I{name} arguments are currently known:

=over 4

=item I{name> I<UUID>

=item nil 00000000-0000-0000-0000-000000000000

=item ns:DNS 6ba7b810-9dad-11d1-80b4-00c04fd430c8

=item ns:URL 6ba7b811-9dad-11d1-80b4-00c04fd430c8

=item ns:OID 6ba7b812-9dad-11d1-80b4-00c04fd430c8

=item ns:X500 6ba7b814-9dad-11d1-80b4-00c04fd430c8

=back

The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

=item uuid_rc_t B<uuid_make>(uuid_t *I<uuid>, unsigned int I<mode>, ...);

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical
MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>). Second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

=item char *B<uuid_error>(uuid_rc_t I<rc>);  
Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

=item unsigned long B<uuid_version>(void);  
Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.

=back

=head1 EXAMPLE

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */  
char *uuid_v1(void)  
{
  uuid_t *uuid;
  char *str;

  uuid_create(&uuid);
  uuid_make(uuid, UUID_MAKE_V1);
  str = NULL;
  uuid_export(uuid, UUID_FMT_STR, &str, NULL);
  uuid_destroy(uuid);
  return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}

=head1 SEE ALSO

The following are references to B<UUID> documentation and specifications:

=over 4

=item

B<A Universally Unique IDentifier (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B<Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm

=item

Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340,00),
http://www.iso.ch/cate/d2229.html

=item

B<HTTP Extensions for Distributed Authoring (WebDAV)>,
section B<6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
http://www.ietf.org/rfc/rfc2518.txt

=item

B<DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE

=back

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E<lt>rse@engelschall.comE<gt>. It was prompted by the use of UUIDs
in the B<OSSP as> and B<OpenPKG> projects. It is a clean room
implementation intended to be strictly standards compliant and maximum
portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.pod
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##
## uuid.tm: Perl XS typemap for xsubpp(1)
##
## TYPEMAP

    uuid_t *   T_PTRREF
    uuid_t **  T_PTRREF
    uuid_rc_t  T_IV
    uuid_fmt_t T_IV
    int *      T_PV
    size_t *   T_PV
    const void * T_PV
    void ** T_PV

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid.tm

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uuid_dce.h: DCE 1.1 compatibility API definition

uuid_dce.h: DCE 1.1 compatibility API definition

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prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.pc.in
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uuid_md5.c: MD5 API implementation
/
/*

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**
** uuid.xs: Perl Binding (Perl/XS part)
*/

Found in path(s):
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**
** uuid.c: library API implementation
*/

Found in path(s):
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##
## uuid++.pod: manual page for C++ API
##
## =pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier> (C++ API)

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API.
It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type
B<uuid_t>.

=head1 APPLICATION PROGRAMMING INTERFACE
The ISO-C++ Application Programming Interface (API) of B< OSSP uuid> consists of the following components:

=head2 CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

=head2 CLASSES

The following classes are provided:

=over 4

=item B<uuid>

This is the class corresponding to the C API type B<uuid_t>. It is the main object.

=item B<uuid_error_t>

This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.

=back

=head2 METHODS

The following methods are provided:

=over 4

=item B<uuid>();

The standard constructor.

=item B<uuid>(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t *_obj);

The import constructor for C API objects.

=item B<uuid>(const void *_bin);

The import constructor for binary representation.
The import constructor for string representation.

The standard destructor for B<uuid> class.

The assignment operator corresponding to the copy constructor.

The assignment operator corresponding to the import constructor for C API objects.

The assignment operator corresponding to the import constructor for binary representation.

The assignment operator corresponding to the import constructor for string and single integer value representation.

Regular method corresponding to the C API function B<uuid_clone>.

Regular method corresponding to the C API function B<uuid_load>.

Regular method corresponding to the C API function B<uuid_make>.

Regular method corresponding to the C API function B<uuid_isnil>.

Regular method corresponding to the C API function B<uuid_compare>.

The comparison operator corresponding to B<uuid_compare> usage for equality.
=item int B<uuid::operator!=>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for inequality.

=item int B<uuid::operator<=>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for less-than.

=item int B<uuid::operator<=>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for less-than-or-equal.

=item int B<uuid::operator>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operator>=(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.

=item void B<uuid::import>(const void * _bin);
Regular method corresponding to the C API function B<uuid_import> for binary representation usage.

=item void B<uuid::import>(const char * _str);
Regular method corresponding to the C API function B<uuid_import> for string representation usage.

=item void *B<uuid::binary>(void);
Regular method corresponding to the C API function B<uuid_export> for binary representation usage.

=item char *B<uuid::string>(void);
Regular method corresponding to the C API function B<uuid_export> for string representation usage.

=item char *B<uuid::integer>(void);
Regular method corresponding to the C API function B<uuid_export> for single integer value representation usage.

=item char *B<uuid::summary>(void);
Regular method corresponding to the C API function B<uuid_export> for textual summary representation usage.

=item unsigned long B<uuid::version>(void);
Regular method corresponding to the C API function B<uuid_version>.
=item B<uuid_error_t>()

The standard constructor for B<uuid_error_t> class.

=item B<uuid_error_t>(uuid_rc_t _code)

The standard constructor for B<uuid_error_t> class with return code initialization.

=item ~B<uuid_error_t>()

The standard destructor for B<uuid_error_t> class.

=item void B<uuid_error_t::code>(uuid_rc_t _code)

Regular method for setting the return code.

=item uuid_rc_t B<uuid_error_t::code>(void)

Regular method for fetching the return code.

=item char *B<uuid_error_t::string>(void)

Regular method for fetching the string corresponding to the current return code.

=back

=head1 EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;

uuid id_ns;
char *str;

id_ns.load("ns:URL");
id.make(UUID_MAKE_V3, &id_ns, url);
str = id.string();
return str;
}

=head1 SEE ALSO

uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid++.pod

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### uuid_cli.pod: manual page
###
=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
   [B<-v> I<version>]
   [B<-m>]
   [B<-n> I<count>]
   [B<-l>]
   [B<-F> I<format>]
   [B<-o> I<filename>]
   [I<namespace> I<name>]

B<uuid>
   B<-d>
   [B<-r>]
   [B<-o> I<filename>]
   I<uuid>

=head1 DESCRIPTION

B<OSSP uuid> is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B<OSSP uuid>. For a
detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS

=over 3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>", and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>

Generate I<count> UUIDs instead of just a single one (the default).

=item B<-l>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-l> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a
UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.

=head1 EXAMPLES

# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272ff725

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
encode: STR: 01c47915-4777-11d8-bc70-0090272ff725
SIV: 2349374037528578887923094374772111141
version: 1 (time and node based)
clock: 15472 (usually random)
node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.ossp.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd
# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV: 3789866285607910888100818383505376205
version: 3 (name based, MD5)
(not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV: 312712571721458096795100956955942831823
version: 4 (random data based)
(no semantics: random data only)

=head1 SEE ALSO

=cut

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid_cli.pod
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**
** uuid_sha1.c: SHA-1 API implementation
*

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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid_sha1.c

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**
** uuid.c: PHP/Zend API (language: C)
*/

Found in path(s):
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 **
 ** ui128.h: API declaration
 */

Found in path(s):
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 *
 * uuid_prng.c: PRNG API implementation
 */
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##
## uuid.pod: Perl Binding (Perl/POD part)
##
##=pod

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant < Universally Unique Identifier > (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API. Three variants are provided:

=head2 TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

=over 4
=item C<use OSSP::uuid;>
=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>
=item C<$uuid = [ $mode, ... ];>
=item C<print "UUID=$uuid\n";>
=item C<untie $uuid;>
=back

=head2 OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

=over 4
=item C<use OSSP::uuid;>
=item C<my $uuid = >B<new>C< OSSP::uuid;>
=item C<$uuid-E<gt>>B<load>C<($name);>
=item C<$uuid-E<gt>>B<make>C<($mode, ...);>
=item C<$result = $uuid-E<gt>>B<isnil>C<();>
=item C<$result = $uuid-E<gt>>B<compare>C<($uuid2);>
=item C<$uuid-E<gt>>B<import>C<($fmt, $data_ptr);>
=item C<$data_ptr = $uuid-E<gt>>B<export>C<($fmt);>
Additionally, the strings C\"v1\", C\"v3\", C\"v4\", C\"v5\" and C\"mc\" can be used in C<$mode> and the strings C\"bin\", C\"str\", and C\"txt\" can be used for C<$fmt>.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSSP uuid> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=head3 OVER 4

=item C<use OSSP::uuid qw(:all)>;
=item C<my $uuid; $rc = >B<uuid_create>$($uuid)>;
=item C<$rc = >B<uuid_load>$($uuid, $name)>;
=item C<$rc = >B<uuid_make>$($uuid, $mode, ...)>;
=item C<$rc = >B<uuid_isnil>$($uuid, $result)>;
=item C<$rc = >B<uuid_compare>$($uuid, $uuid2, $result)>;
=item C<$rc = >B<uuid_import>$($uuid, $fmt, $data_ptr, $data_len)>;
=item C<$rc = >B<uuid_export>$($uuid, $fmt, $data_ptr, $data_len)>;
=item C<$str = >B<uuid_error>$($rc)>;
=item C<$ver = >B<uuid_version>$()>;
=item C<$src = >B<uuid_destroy>$($uuid)>;
=back

Additionally, the following constants are exported for use in C<$rc>, C<$mode>, C<$fmt> and C<$ver>:
C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
C<UUID_RC_MEM>,
C<UUID_RC_SYS>,
C<UUID_RC_INT>,
C<UUID_RC_IMP>,
C<UUID_MAKE_V1>,
C<UUID_MAKE_V3>,
C<UUID_MAKE_V4>,
C<UUID_MAKE_V5>,
C<UUID_MAKE_MC>,
C<UUID_FMT_BIN>,
C<UUID_FMT_STR>,
C<UUID_FMT_SIV>,
C<UUID_FMT_TXT>.

=head1 EXAMPLES

The following two examples create the version 3 UUID C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid
";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid
";
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str
";

# C-style API (low-level)
use OSSP::uuid qw(all);
my $uuid;  uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.oss.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in
November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

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**
** uuid++.cc: library C++ API implementation
*/

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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--
--
SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING) CASCADE;
DROP FUNCTION uuid_out(uuid) CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid) CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid) CASCADE;
DROP CAST (uuid AS CSTRING) CASCADE;
DROP FUNCTION uuid(CSTRING) CASCADE;
DROP FUNCTION uuid(INTEGER) CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;
DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <>(uuid,uuid) CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR <=(uuid,uuid) CASCADE;
DROP OPERATOR >=(uuid,uuid) CASCADE;
DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;

BEGIN;

--

--  the UUID data type
--

CREATE FUNCTION
  uuid_in(CSTRING) RETURNS uuid
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';
CREATE TYPE uuid (  
    INPUT   = uuid_in,   -- for SQL input  
    OUTPUT  = uuid_out,  -- for SQL output  
    RECEIVE = uuid_recv, -- for DB input  
    SEND    = uuid_send, -- for DB output  
    DEFAULT = 'uuid(1)',  
    INTERNALLENGTH = 16,  
    ALIGNMENT = char  
);  

COMMENT ON TYPE uuid 
    IS 'UUID type';  

-- CREATE CAST (CSTRING AS uuid)  
--     WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;  
--  
-- CREATE CAST (uuid AS CSTRING)  
--     WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;  

--  
-- the UUID constructor function  
--  
CREATE FUNCTION uuid(CSTRING) RETURNS uuid  
    IMMUTABLE STRICT  
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';  

CREATE FUNCTION uuid(INTEGER) RETURNS uuid  
    VOLATILE CALLED ON NULL INPUT  
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';  

CREATE FUNCTION uuid_out(uuid) RETURNS CSTRING  
    STRICT  
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';  

CREATE FUNCTION uuid_recv(INTERNAL) RETURNS uuid  
    STRICT  
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';  

CREATE FUNCTION uuid_send(uuid) RETURNS BYTEA  
    STRICT  
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';
uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--
-- the UUID operators
--

CREATE FUNCTION
  uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
  uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
  uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
  uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (  
  leftarg = uuid,  
  rightarg = uuid,  
  negator = <>,  
  procedure = uuid_eq  
);

CREATE OPERATOR <> (  
  leftarg = uuid,  
  rightarg = uuid,  
  negator = <>,  
  procedure = uuid_eq  
);
negator    = =,
procedure  = uuid_ne
);

CREATE OPERATOR < (
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = >,
  negator    = >=
);

CREATE OPERATOR > (
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = <,
  negator    = <=,
  procedure  = uuid_gt
);

CREATE OPERATOR <= (  
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = >=,
  negator    = >,
  procedure  = uuid_le
);

CREATE OPERATOR >= (  
  leftarg    = uuid,
  rightarg   = uuid,
  commutator = <=,
  negator    = <,
  procedure  = uuid_ge
);

--
-- the UUID support for indexing
--

CREATE FUNCTION
  uuid_hash(uuid) RETURNS INTEGER
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION
  uuid_cmp(uuid, uuid) RETURNS INTEGER
IMMUTABLE STRICT
CREATE OPERATOR CLASS uuid_ops
DEFAULT FOR TYPE uuid USING hash AS
OPERATOR 1 =, -- 1: equal
FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops
DEFAULT FOR TYPE uuid USING btree AS
OPERATOR 1 <, -- 1: less than
OPERATOR 2 <=, -- 2: less than or equal
OPERATOR 3 =, -- 3: equal
OPERATOR 4 >=, -- 4: greater than or equal
OPERATOR 5 >, -- 5: greater than
FUNCTION 1 uuid_cmp(uuid, uuid);

--
-- epilog
--

COMMIT;

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** uuid_mac.h: Media Access Control (MAC) resolver API definition
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** uuid_cli.c: command line tool
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** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

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** uuid_md5.h: MD5 API definition
*/

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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.pm
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.ts
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php5
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php4
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid.pm
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/Makefile.PL
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/Makefile.PL
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid-config.pod
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid-config.in
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/Makefile.local
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.ts
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dnl  config.m4: PHP/Zend API build-time configuration (language: m4)
dnl

PHP_ARG_ENABLE(uuid, OSSP uuid module,
[  --enable-uuid             Enable OSSP uuid extension module.])

if test "$PHP_UUID" != "no"; then
    PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
    AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
    PHP_ADD_LIBPATH([..], )
    PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
    PHP_ADD_INCLUDE([..])
    PHP_SUBST(UUID_SHARED_LIBADD)
    dnl  avoid linking conflict with a potentially existing uuid_create(3) in libc
    AC_CHECK_FUNC(uuid_create,[
        SAVE_LDFLAGS="$LDFLAGS"
        LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
        AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
        LDFLAGS="$SAVE_LDFLAGS" ])
fi

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**
** uuid_ac.c: auto-configuration
*/

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** uuid_bm.c: bitmask API implementation
*/

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**
** uuid++.hh: library C++ API definition
*/

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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
*/

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version
1 (time and node based), version 3 (name based, MD5), version 4
(random number based) and version 5 (name based, SHA-1). Additional
API bindings are provided for the languages ISO-C++:1998, Perl:5 and
PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1
and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult
to guess. They are globally unique identifiers which can be locally
generated without contacting a global registration authority. UUIDs
are intended as unique identifiers for both mass tagging objects
with an extremely short lifetime and to reliably identifying very
persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

  o http://www.ossp.org/pkg/lib/uuid/
  o ftp://ftp.ossp.org/pkg/lib/uuid/

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ui64.c: implementation of 64-bit unsigned integer arithmetic
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=pod
=head1 NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

=head1 DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without changes.

=head1 SEE ALSO

B<OSSP::uuid>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<dexter@debian.orgE> . It was later cleaned up and speed optimized in December 2005 by David Wheeler E<david@justatheory.comE> .

=cut

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** uuid_time.h: Time Management API
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1.497 makedev 2.3.1-93ubuntu2~ubuntu16.04.1

1.498 libsgutils 1.40-0ubuntu1
1.498.1 Available under license:

This package was debianized by Eric Schwartz <emschwar@debian.org> on
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It was downloaded from <URL:http://sg.danny.cz/sg/>

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1.505 libx11 1.6.3-1ubuntu2

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* /opt/ws_local/PERMITS_SQL/1030681835_1591366318.59/0/jackcess-3-0-1-sources-jar/com/healthmarketscience/jackcess/impl/expr/BaseValue.java
* /opt/ws_local/PERMITS_SQL/1030681835_1591366318.59/0/jackcess-3-0-1-sources-jar/com/healthmarketscience/jackcess/impl/JetFormat.java
* /opt/ws_local/PERMITS_SQL/1030681835_1591366318.59/0/jackcess-3-0-1-sources-jar/com/healthmarketscience/jackcess/impl/IndexImpl.java
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* /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-
  jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/RowSortedTable.java
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  jar/jersey/repackaged/com/google/common/util/concurrent/UncaughtExceptionHandler.java

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jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.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/io/LineReader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/Resources.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/io/Flushables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/eventbus/SynchronizedEventSubscriber.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/Objects.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/Sets.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/Predicates.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/Interner.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/Function.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/Multiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/BiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/collect/NullsFirstOrdering.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/collect/Interners.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/EnumMultiset.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-
  jar/jersey/repackaged/com/google/common/collection/ComputingConcurrentHashMap.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-
  jar/jersey/repackaged/com/google/common/collection/MapMakerInternalMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/Cut.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/MapMaker.java
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  jar/jersey/repackaged/com/google/common/collection/RegularImmutableTable.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-jar/jersey/repackaged/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutaibleListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Serialization.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Tables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMultimap.java
* /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/collect/ImmutableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/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/collect/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
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/CollectPreconditions.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/HashBasedTable.java

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  jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/GeneralRange.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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* /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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*/

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java
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jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java
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jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/LongAddables.java
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jar/jersey/repackaged/com/google/common/html/package-info.java
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jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/xml/package-info.java
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jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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1.518 jackson 2.9.5

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 * Abstract: The main routine
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For hadoop-common-project/hadoop-common/src/main/native/gtest

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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.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

   a) The modified work must itself be a software library.
   
   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
   
   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
   
   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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directing the user to the copy of this License. Also, you must do one
of these things:

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

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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

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

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

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

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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.
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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.

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.

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1.524 netifaces 0.10.4-0.1build2

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

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?

----------

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

This package attempts to solve that problem.

2. How do I use it?
--------------

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

tar xvf 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'}]}

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

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

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

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

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

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

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

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

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

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

Let's look at a more interesting interface.

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

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

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

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

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

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:
>>> 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:

>>> 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

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

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

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

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

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

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

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

4. What license is this under?
-----------------------------

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

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

Found in path(s):
* /opt/cola/permits/1144946493_1633499383.58/0/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",
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Found in path(s):
* /opt/cola/permits/1144946493_1633499383.58/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/setup.py
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Metadata-Version: 1.1  
Name: netifaces  
Version: 0.10.4  
Summary: Portable network interface information.  
Home-page: https://bitbucket.org/al45tair/netifaces  
Author: Alastair Houghton  
Author-email: alastair@alastairs-place.net  
License: MIT License  
Description: netifaces 0.10.4  
================  
.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png  
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest  
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```

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

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

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

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

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

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

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

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

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

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5. Why the jump to 0.10.0?

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

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

Platform: UNKNOWN
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Found in path(s):
* /opt/cola/permits/1144946493_1633499383.58/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO
* /opt/cola/permits/1144946493_1633499383.58/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/PKG-INFO

1.525 lucene-analyzers-stempel 8.8.2

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noggit

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into Solr codebase.

https://github.com/yonik/noggit
1.532 diffutils 3.7-5

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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
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/*
 * Javassist, a Java-bytecode translator toolkit.
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Found in path(s):
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5- jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5- jar/javassist/expr/Handler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5- jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5- jar/javassist/CtNewConstructor.java
1.540 zookeeper-jute 3.6.2

1.540.1 Available under license:

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options {
  STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
@SuppressWarnings("unused")
public class Rcc {
  private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
  private static String curDir = System.getProperty("user.dir");
  private static String curFileName;
  private static String curModuleName;
}
public static void main(String args[]) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile=null;

    for (int i=0; i<args.length; i++) {
        if ("-l".equalsIgnoreCase(args[i]) ||
            "--language".equalsIgnoreCase(args[i])) {
            language = args[i+1].toLowerCase();
            i++;
        } else {
            recFiles.add(args[i]);
        }
    }

    if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
        System.out.println("Cannot recognize language:" + language);
        System.exit(1);
    }

    if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
    }

    for (int i=0; i<recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
            curFile = parseFile(file);
        } catch (FileNotFoundException e) {
            System.out.println("File " + recFiles.get(i) + " Not found.");
            System.exit(1);
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
        System.out.println(recFiles.get(i) + " Parsed Successfully");
        try {
            curFile.genCode(language, new File("."));
        } catch (IOException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
FileReader reader = new FileReader(file);
try {
    RCC parser = new RCC(reader);
    recTab = new Hashtable<String, JRecord>();
    return parser.Input();
} finally {
    try {
        reader.close();
    } catch (IOException e) {
    }
}
}

PARSER_END(RCC)

SKIP :
{
    " "
    | "\r"
    | "\n"
    | "\t"
}

SPECIAL_TOKEN :
{
    "//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    <("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE :
{
    "~[]"
}

SPECIAL_TOKEN :
{
    "/\*/" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
{
    "\*/" : DEFAULT
}
MORE:
{
<-[]>
}

TOKEN:
{
  <MODULE_TKN: "module">
  | <RECORD_TKN: "class">
  | <INCLUDE_TKN: "include">
  | <BYTE_TKN: "byte">
  | <BOOLEAN_TKN: "boolean">
  | <INT_TKN: "int">
  | <LONG_TKN: "long">
  | <FLOAT_TKN: "float">
  | <DOUBLE_TKN: "double">
  | <USTRING_TKN: "ustring">
  | <BUFFER_TKN: "buffer">
  | <VECTOR_TKN: "vector">
  | <MAP_TKN: "map">
  | <LBRACE_TKN: "{">
  | <RBRACE_TKN: "}">
  | <LT_TKN: "<">
  | <GT_TKN: "">
  | <SEMICOLON_TKN: ";">
  | <COMMA_TKN: ",">
  | <DOT_TKN: ".">
  | <CSTRING_TKN: "" ( ~\[""\] )+ "">
  | <IDENT_TKN: \["A"-"Z","a"-"z"] (["a"-"z","A"-"Z","0"-"9","_"])#>
}

JFile Input() :
{
  ArrayList<JFile> ilist = new ArrayList<JFile>();
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JFile i;
  ArrayList <JRecord>l;
}

  { 
    i = Include()
    { ilist.add(i); }
    | l = Module()
    { rlist.addAll(l); }
  }

  <EOF>
  { return new JFile(curFileName, ilist, rlist); }
JFile Include() :
{
    String fname;
    Token t;
}
{
    <INCLUDE_TKN>
    t = <CSTRING_TKN>
    {
        JFile ret = null;
        fname = t.image.replaceAll("^\"", "").replaceAll("\"$", "");
        File file = new File(curDir, fname);
        String tmpDir = curDir;
        String tmpFile = curFileName;
        curDir = file.getParent();
        curFileName = file.getName();
        try {
            FileReader reader = new FileReader(file);
            Rcc parser = new Rcc(reader);
            try {
                ret = parser.Input();
                System.out.println(fname + " Parsed Successfully");
            } catch (ParseException e) {
                System.out.println(e.toString());
                System.exit(1);
            }
            try {
                reader.close();
            } catch (IOException e) {
            }
        } catch (FileNotFoundException e) {
            System.out.println("File " + fname + " Not found.");
            System.exit(1);
        }
        curDir = tmpDir;
        curFileName = tmpFile;
        return ret;
    }
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{<MODULE_TKN>
mName = ModuleName()
{ curModuleName = mName; }
<LBRACE_TKN>
rlist = RecordList()
<RBRACE_TKN>
{ return rlist; }
}

String ModuleName() :
{
String name = "";
Token t;
}
{
t = <IDENT_TKN>
{ name += t.image; }
(<DOT_TKN>
t = <IDENT_TKN>
{ name += "." + t.image; }
)*
{ return name; }
}

ArrayList<JRecord> RecordList() :
{
ArrayList<JRecord> rlist = new ArrayList<JRecord>();
JRecord r;
}
{
(r = Record())
{ rlist.add(r); }
)+
{ return rlist; }
}

JRecord Record() :
{
String rname;
ArrayList<JField> flist = new ArrayList<JField>();
Token t;
JField f;
}
{<RECORD_TKN>
t = <IDENT_TKN>
{ rname = t.image; }
<LBRACE_TKN>
(
  f = Field()
  { flist.add(f); }
  <SEMICOLON_TKN>
)+
<RBRACE_TKN>
{
  String fqn = curModuleName + "." + rname;
  JRecord r = new JRecord(fqn, flist);
  recTab.put(fqn, r);
  return r;
}

JField Field() :
{
  JType jt;
  Token t;
}
{
  jt = Type()
  t = <IDENT_TKN>
  { return new JField(jt, t.image); }
}

JType Type() :
{
  JType jt;
  Token t;
  String rname;
}
{
  jt = Map()
  { return jt; }
  | jt = Vector()
  { return jt; }
  | <BYTE_TKN>
  { return new JByte(); }
  | <BOOLEAN_TKN>
  { return new JBoolean(); }
  | <INT_TKN>
  { return new JInt(); }
  | <LONG_TKN>
  { return new JLong(); }
  | <FLOAT_TKN>
{ return new JFloat(); }

<DOUBLE_TKN>
{ return new JDouble(); }

<USTRING_TKN>
{ return new JString(); }

<BUFFER_TKN>
{ return new JBuffer(); }

|rname = ModuleName()
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/WatcherEvent.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/TxnRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/data/ACL.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ExistsRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/data/ACL.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckVersionRequest.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JInt.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JMap.java
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1.541 libxml 2.9.3+dfsg1 1ubuntu0.5

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--- tdbsa.orig/tdb.c
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That's all there is to it!
#
# 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
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSDLIB_LIB)

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

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB) \\$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB) \
@ -$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ./.$(BSDLIB_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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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

------
Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.547 libparams-util-perl 1.07-2build2
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1.550 swagger-annotations 1.5.0

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
 */
* @since 1.5.0
*/

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

1.551 hk2-utils 2.5.0

1.552 zlib 1.2.11

1.552.1 Available under license :

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

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This package was debianized by Mike Hommey <glandium@debian.org> on Sun, 25 Mar 2007 19:36:42 +0200.

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Since 2.4 there are special exceptions for JSON Tree model

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Eclipse

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

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

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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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**1.572 ifupdown 0.8.10ubuntu1.4**

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1.574 jboss-transaction-api 1.0.1.GA

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EcdsaUsingShaAlgorithm contains code for converting the concatenated R & S values of the signature to and from DER, which was originally derived from the Apache Santuario XML Security library's SignatureECDSA implementation. http://santuario.apache.org/

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Noggit is a fast streaming JSON parser for java. The code is included into Solr codebase.

https://github.com/yonik/noggit

1.576 collectd 5.8.0
1.576.1 Available under license:

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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)

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=cut

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  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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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

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### 1.580 icu 60

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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 $@ $<

%.$(SO).o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

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

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

# 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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1.588 owasp-java-html-sanitizer 20211018.2

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1.589 jdom 2.0.6
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  jar/org/jdom2/StringBin.java
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  jar/org/jdom2/contrib/perf/TimeRunnable.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/xpath/xalan/XalanXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/perf/PerfVerifier.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/android/TranslateTests.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/DevNull.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfTest.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfDoc.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/XalanXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttFilter.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMConstants.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/Filters.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ClassFilter.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/EntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AndFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/CDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ContentFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Text.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DefaultJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/AttributeList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/SAXOutputter.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AbstractFilter.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DescendantIterator.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestSerialization.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/doc-
files/TestIds.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestElement.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMSource.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMResult.java
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/*
/*
* Support methods for Text-content formatting. Should all be protected. The following are used when printing Text-based data. Because of complicated multi-sequential text sometimes the requirements are odd. All Text content will be output using these methods, which is why there is the None version.
* */

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestCDATA.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DataConversionException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/adapters/DOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalDataException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Namespace.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalTargetException.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerPRESERVE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/Walker.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerTRIM_FULL_WHITE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/located/LocatedCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/WalkerTRIM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/Located.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerNORMALIZE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttAwareXMLOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestVerifier.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/XSLTransformer.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scan/ElementListener.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scan/XPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdDocument.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdFactory.java

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*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberSAXHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberElement.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/dom/JDOMImplementation.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JaxenCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/dom/JNamespaceAware.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/dom/JElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/util/ IteratorIterable.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/dom/JAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/xpath/xalan/NamespacePointer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/ XPathDiagnostic.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JParent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JNodeList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JNamespace.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/ util/AbstractXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/xpath/xalan/JDOM2DTM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/ XPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JContent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JSimpleCharacterContent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/domain/JWrapper.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/ JaxenXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/xpath/AbstractTestXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/ XPathBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ SystemProperty.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOM2Navigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/CloneBase.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestNamespace.java

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*/
/*
* Support methods for Text-content formatting. Should all be protected. The following are used when printing Text-based data. Because of complicated multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
* ---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/AbstractOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/contrib/schema/ValidationError.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/contrib/schema/Schema.java

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* /opt/cola/permits/1135936329_1613638824.69/jdom2-2-0-6-sources-1.jar/org/jdom2/internal/ReflectionConstructor.java
* /opt/cola/permits/1135936329_1613638824.69/jdom2-2-0-6-sources-1.jar/org/jdom2/util/NamespaceStack.java
* /opt/cola/permits/1135936329_1613638824.69/jdom2-2-0-6-sources-1.jar/org/jdom2/internal/ArrayCopy.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXEventBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/EscapeStrategy.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/output/support/SAXTarget.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/output/support/DOMOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/input/ResultSetBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/TestBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/JDOMBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/TestIndexed.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/DateUtils.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/XPathHelper.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/output/JTreeOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/contrib/beans/BeanMapperException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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1.591 libtest-requires-perl 0.10-1

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1.592 debian-archive-keyring 2021.1.1

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1.594 libsub-uplevel-perl 0.2500-1

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1.595 python 3.5.2 2ubuntu0~16.04.13

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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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1.596 libclass-c3-perl 0.30-1

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=pod

=encoding UTF-8

=head1 NAME

ExtUtils::HasCompiler - Check for the presence of a compiler
=head1 VERSION

version 0.012

=head1 DESCRIPTION

This module tries to check if the current system is capable of compiling, linking and loading an XS module.

B<Notice>: this is an early release, interface stability isn't guaranteed yet.

=head1 FUNCTIONS

=head2 can_compile_loadable_object(%opts)

This checks if the system can compile, link and load a perl loadable object. It may take the following options:

=over 4
=item * quiet
Do not output the executed compilation commands.

=item * config
An L<ExtUtils::Config|ExtUtils::Config> (compatible) object for configuration.

=item * skip_load
This causes can_compile_loadable_object to not try to load the generated object. This defaults to true on a cross-compiling perl.
=back

=head1 AUTHOR

Leon Timmermans <leont@cpan.org>

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=cut

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=head1 NAME

Class::C3::next - Pure-perl next::method and friends

=head1 DESCRIPTION

This module is used internally by Class::C3 when necessary, and shouldn't be used (or required in distribution dependencies) directly. It defines next::method, next::can, and maybe::next::method in pure perl.

=head1 AUTHOR

Stevan Little, stevan@iinteractive.com
Brandon L. Black, blblack@gmail.com

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* /opt/cola/permits/1144945934_1633499382.49/0/libclass-c3-perl-0-30-orig-1-tar-gz/Class-C3-0.30/lib/Class/C3/next.pm

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NAME
Class::C3 - A pragma to use the C3 method resolution order algorithm

SYNOPSIS

# NOTE - DO NOT USE Class::C3 directly as a user, use MRO::Compat instead!
package ClassA;
use Class::C3;
sub hello { `A::hello` }
package ClassB;
use base 'ClassA';
use Class::C3;

package ClassC;
use base 'ClassA';
use Class::C3;

sub hello { 'C::hello' }

package ClassD;
use base ('ClassB', 'ClassC');
use Class::C3;

# Classic Diamond MI pattern
#    <A>
#   /   \
# <B>   <C>
#   \   /
#    <D>

package main;

# initializez the C3 module
# (formerly called in INIT)
Class::C3::initialize();

print join ', ' => Class::C3::calculateMRO('ClassD'); # prints ClassD, ClassB, ClassC, ClassA

print ClassD->hello(); # prints 'C::hello' instead of the standard p5 'A::hello'

ClassD->can('hello')->(); # can() also works correctly
UNIVERSAL::can('ClassD', 'hello'); # as does UNIVERSAL::can()

DESCRIPTION
This is pragma to change Perl 5's standard method resolution order from depth-first left-to-right (a.k.a - pre-order) to the more sophisticated C3 method resolution order.

NOTE: YOU SHOULD NOT USE THIS MODULE DIRECTLY - The feature provided is integrated into perl version >= 5.9.5, and you should use MRO::Compat instead, which will use the core implementation in newer perls, but fallback to using this implementation on older perls.

What is C3?
C3 is the name of an algorithm which aims to provide a sane method resolution order under multiple inheritance. It was first introduced in the language Dylan (see links in the "SEE ALSO" section), and then later
adopted as the preferred MRO (Method Resolution Order) for the new-style classes in Python 2.3. Most recently it has been adopted as the 'canonical' MRO for Perl 6 classes, and the default MRO for Parrot objects as well.

How does C3 work.
C3 works by always preserving local precedence ordering. This essentially means that no class will appear before any of its subclasses. Take the classic diamond inheritance pattern for instance:

```
   <A>
   / \ 
 <B> <C> 
 \ / 
 <D>
```

The standard Perl 5 MRO would be (D, B, A, C). The result being that A appears before C, even though C is the subclass of A. The C3 MRO algorithm however, produces the following MRO (D, B, C, A), which does not have this same issue.

This example is fairly trivial, for more complex examples and a deeper explanation, see the links in the "SEE ALSO" section.

How does this module work?
This module uses a technique similar to Perl 5's method caching. When "Class::C3::initialize" is called, this module calculates the MRO of all the classes which called "use Class::C3". It then gathers information from the symbol tables of each of those classes, and builds a set of method aliases for the correct dispatch ordering. Once all these C3-based method tables are created, it then adds the method aliases into the local classes symbol table.

The end result is actually classes with pre-cached method dispatch. However, this caching does not do well if you start changing your @ISA or messing with class symbol tables, so you should consider your classes to be effectively closed. See the CAVEATS section for more details.

OPTIONAL LOWERCASE PRAGMA
This release also includes an optional module c3 in the opt/ folder. I did not include this in the regular install since lowercase module names are considered "bad" by some people. However I think that code looks much nicer like this:

```
package MyClass;
use c3;
```

This is more clunky:
package MyClass;
use Class::C3;

But hey, it's your choice, that's why it is optional.

FUNCTIONS

calculateMRO ($class)

Given a $class this will return an array of class names in the
proper C3 method resolution order.

initialize

This must be called to initialize the C3 method dispatch tables,
this module will not work if you do not do this. It is advised to do
this as soon as possible after loading any classes which use C3.
Here is a quick code example:

package Foo;
use Class::C3;
# ... Foo methods here

package Bar;
use Class::C3;
use base 'Foo';
# ... Bar methods here

package main;

Class::C3::initialize(); # now it is safe to use Foo and Bar

This function used to be called automatically for you in the INIT
phase of the perl compiler, but that lead to warnings if this module
was required at runtime. After discussion with my user base (the
DBIx::Class folks), we decided that calling this in INIT was more of
an annoyance than a convenience. I apologize to anyone this causes
problems for (although I would be very surprised if I had any other
users other than the DBIx::Class folks). The simplest solution of
course is to define your own INIT method which calls this function.

NOTE:

If "initialize" detects that "initialize" has already been executed,
it will "uninitialize" and clear the MRO cache first.

uninitialize

Calling this function results in the removal of all cached methods,
and the restoration of the old Perl 5 style dispatch order
(depth-first, left-to-right).
reinitialize
This is an alias for "initialize" above.

METHOD REDISPATCHING
It is always useful to be able to re-dispatch your method call to the
"next most applicable method". This module provides a pseudo package
along the lines of "SUPER::" or "NEXT::" which will re-dispatch the
method along the C3 linearization. This is best shown with an example.

# a classic diamond MI pattern ...
#    <A>
#   /   \
#  <B>   <C>
#  / \ /
#   <D>

package A;
use c3;
sub foo { 'A::foo' }

package B;
use base 'A';
use c3;
sub foo { 'B::foo => ' . (shift)->next::method() }

package C;
use base 'A';
use c3;
sub foo { 'C::foo => ' . (shift)->next::method() }

package D;
use base ('B', 'C');
use c3;
sub foo { 'D::foo => ' . (shift)->next::method() }

print D->foo; # prints out "D::foo => B::foo => C::foo => A::foo"

A few things to note. First, we do not require you to add on the method
name to the "next::method" call (this is unlike "NEXT::" and "SUPER::"
which do require that). This helps to enforce the rule that you cannot
dispatch to a method of a different name (this is how "NEXT::" behaves
as well).

The next thing to keep in mind is that you will need to pass all
arguments to "next::method". It can not automatically use the current
@_.
If "next::method" cannot find a next method to re-dispatch the call to, it will throw an exception. You can use "next::can" to see if "next::method" will succeed before you call it like so:

$self->next::method(@_) if $self->next::can;

Additionally, you can use "maybe::next::method" as a shortcut to only call the next method if it exists. The previous example could be simply written as:

$self->maybe::next::method(@_);

There are some caveats about using "next::method", see below for those.

CAVEATS

This module used to be labeled as *experimental*, however it has now been pretty heavily tested by the good folks over at DBIx::Class and I am confident this module is perfectly usable for whatever your needs might be.

But there are still caveats, so here goes ...

Use of "SUPER::".
The idea of "SUPER::" under multiple inheritance is ambiguous, and generally not recommended anyway. However, its use in conjunction with this module is very much not recommended, and in fact very discouraged. The recommended approach is to instead use the supplied "next::method" feature, see more details on its usage above.

Changing @ISA.
It is the author's opinion that changing @ISA at runtime is pure insanity anyway. However, people do it, so I must caveat. Any changes to the @ISA will not be reflected in the MRO calculated by this module, and therefore probably won't even show up. If you do this, you will need to call "reinitialize" in order to recalculate all method dispatch tables. See the "reinitialize" documentation and an example in t/20_reinitialize.t for more information.

Adding/deleting methods from class symbol tables.
This module calculates the MRO for each requested class by interrogating the symbol tables of said classes. So any symbol table manipulation which takes place after our INIT phase is run will not be reflected in the calculated MRO. Just as with changing the @ISA, you will need to call "reinitialize" for any changes you make to take effect.

Calling "next::method" from methods defined outside the class
There is an edge case when using "next::method" from within a
subroutine which was created in a different module than the one it is called from. It sounds complicated, but it really isn't. Here is an example which will not work correctly:

*Foo::foo = sub { (shift)->next::method( @_ ) };

The problem exists because the anonymous subroutine being assigned to the glob *Foo::foo will show up in the call stack as being called "__ANON__" and not "foo" as you might expect. Since "next::method" uses "caller" to find the name of the method it was called in, it will fail in this case.

But fear not, there is a simple solution. The module "Sub::Name" will reach into the perl internals and assign a name to an anonymous subroutine for you. Simply do this:

use Sub::Name 'subname';
*Foo::foo = subname 'Foo::foo' => sub { (shift)->next::method( @_ ) };

and things will Just Work. Of course this is not always possible to do, but to be honest, I just can't manage to find a workaround for it, so until someone gives me a working patch this will be a known limitation of this module.

COMPATIBILITY

If your software requires Perl 5.9.5 or higher, you do not need Class::C3, you can simply "use mro 'c3'", and not worry about "initialize()", avoid some of the above caveats, and get the best possible performance. See mro for more details.

If your software is meant to work on earlier Perls, use Class::C3 as documented here. Class::C3 will detect Perl 5.9.5+ and take advantage of the core support when available.

Class::C3::XS
This module will load Class::C3::XS if it's installed and you are running on a Perl version older than 5.9.5. The optional module will be automatically installed for you if a C compiler is available, as it results in significant performance improvements (but unlike the 5.9.5+ core support, it still has all of the same caveats as Class::C3).

CODE COVERAGE
Devel::Cover was reporting 94.4% overall test coverage earlier in this module's life. Currently, the test suite does things that break under coverage testing, but it is fair to assume the coverage is still close to that value.

SEE ALSO
The original Dylan paper

The prototype Perl 6 Object Model uses C3
<http://svn.openfoundry.org/pugs/perl5/Perl6-MetaModel/>

Parrot now uses C3
<http://aspn.activestate.com/ASPN/Mail/Message/perl6-internals/2746631>
<http://use.perl.org/~autrijus/journal/25768>

Python 2.3 MRO related links
<http://www.python.org/2.3/mro.html>
<http://www.python.org/2.2.2/descrintro.html#mro>

C3 for TinyCLOS

ACKNOWLEGEMENTS
Thanks to Matt S. Trout for using this module in his module DBIx::Class and finding many bugs and providing fixes.
Thanks to Justin Guenther for making "next::method" more robust by handling calls inside "eval" and anon-sub.
Thanks to Robert Norris for adding support for "next::can" and "maybe::next::method".

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=pod

=head1 NAME

Class::C3 - A pragma to use the C3 method resolution order algorithm
=head1 SYNOPSIS

# NOTE - DO NOT USE Class::C3 directly as a user, use MRO::Compat instead!
package ClassA;
use Class::C3;
sub hello { 'A::hello' }

package ClassB;
use base 'ClassA';
use Class::C3;

package ClassC;
use base 'ClassA';
use Class::C3;

sub hello { 'C::hello' }

package ClassD;
use base ('ClassB', 'ClassC');
use Class::C3;

# Classic Diamond MI pattern
#    <A>
#   /   \
# <B>   <C>
#   \   /
#    <D>

package main;

# initializez the C3 module
# (formerly called in INIT)
Class::C3::initialize();

print join ', ' => Class::C3::calculateMRO('ClassD'); # prints ClassD, ClassB, ClassC, ClassA

print ClassD->hello(); # prints 'C::hello' instead of the standard p5 'A::hello'

ClassD->can('hello')->();  # can() also works correctly
UNIVERSAL::can('ClassD', 'hello');  # as does UNIVERSAL::can()

=head1 DESCRIPTION

This is pragma to change Perl 5's standard method resolution order from depth-first left-to-right (a.k.a - pre-order) to the more sophisticated C3 method resolution order.

B<NOTE:> YOU SHOULD NOT USE THIS MODULE DIRECTLY - The feature provided
is integrated into perl version >= 5.9.5, and you should use L<MRO::Compat> instead, which will use the core implementation in newer perls, but fallback to using this implementation on older perls.

=head2 What is C3?

C3 is the name of an algorithm which aims to provide a sane method resolution order under multiple inheritance. It was first introduced in the language Dylan (see links in the L<SEE ALSO> section), and then later adopted as the preferred MRO (Method Resolution Order) for the new-style classes in Python 2.3. Most recently it has been adopted as the 'canonical' MRO for Perl 6 classes, and the default MRO for Parrot objects as well.

=head2 How does C3 work.

C3 works by always preserving local precedence ordering. This essentially means that no class will appear before any of its subclasses. Take the classic diamond inheritance pattern for instance:

```
    <A>
   /   \
 <B>   <C>
  \
   <D>
```

The standard Perl 5 MRO would be (D, B, A, C). The result being that B<A> appears before B<C>, even though B<C> is the subclass of B<A>. The C3 MRO algorithm however, produces the following MRO (D, B, C, A), which does not have this same issue.

This example is fairly trivial, for more complex examples and a deeper explanation, see the links in the L<SEE ALSO> section.

=head2 How does this module work?

This module uses a technique similar to Perl 5's method caching. When C<Class::C3::initialize> is called, this module calculates the MRO of all the classes which called C<use Class::C3>. It then gathers information from the symbol tables of each of those classes, and builds a set of method aliases for the correct dispatch ordering. Once all these C3-based method tables are created, it then adds the method aliases into the local classes symbol table.

The end result is actually classes with pre-cached method dispatch. However, this caching does not do well if you start changing your C<@ISA> or messing with class symbol tables, so you should consider your classes to be effectively closed. See the L<CAVEATS> section for more details.

=head1 OPTIONAL LOWERCASE PRAGMA

This release also includes an optional module B<c3> in the F<opt/> folder. I did not include this in the regular install since lowercase module names are considered I<"bad"> by some people. However I think that code looks much nicer like this:
package MyClass;
use c3;

This is more clunky:

package MyClass;
use Class::C3;

But hey, it's your choice, that's why it is optional.

=head1 FUNCTIONS

=over 4

=item B<calculateMRO ($class)>

Given a C<$class> this will return an array of class names in the proper C3 method resolution order.

=item B<initialize>

This B<must be called> to initialize the C3 method dispatch tables, this module B<will not work> if you do not do this. It is advised to do this as soon as possible B<after> loading any classes which use C3. Here is a quick code example:

package Foo;
use Class::C3;
# ... Foo methods here

package Bar;
use Class::C3;
use base 'Foo';
# ... Bar methods here

package main;

Class::C3::initialize(); # now it is safe to use Foo and Bar

This function used to be called automatically for you in the INIT phase of the perl compiler, but that lead to warnings if this module was required at runtime. After discussion with my user base (the L<DBIx::Class> folks), we decided that calling this in INIT was more of an annoyance than a convenience. I apologize to anyone this causes problems for (although I would be very surprised if I had any other users other than the L<DBIx::Class> folks). The simplest solution of course is to define your own INIT method which calls this function.

NOTE:

If C<initialize> detects that C<initialize> has already been executed, it will L</uninitialize> and clear the MRO cache first.
Calling this function results in the removal of all cached methods, and the restoration of the old Perl 5 style dispatch order (depth-first, left-to-right).

This is an alias for L</initialize> above.

=head1 METHOD REDISPATCHING

It is always useful to be able to re-dispatch your method call to the "next most applicable method". This module provides a pseudo package along the lines of C<SUPER::> or C<NEXT::> which will re-dispatch the method along the C3 linearization. This is best shown with an example.

# a classic diamond MI pattern ...
#   <A>
#  / \
# <B> <C>
# / \ /
# <D>

package A;
use c3;
sub foo { 'A::foo' }

package B;
use base 'A';
use c3;
sub foo { 'B::foo => '.(shift)->next::method() }

package C;
use base 'A';
use c3;
sub foo { 'C::foo => '.(shift)->next::method() }

package D;
use base ('B', 'C');
use c3;
sub foo { 'D::foo => '.(shift)->next::method() }

print D->foo; # prints out "D::foo => B::foo => C::foo => A::foo"

A few things to note. First, we do not require you to add on the method name to the C<next::method> call (this is unlike C<NEXT::> and C<SUPER::> which do require that). This helps to enforce the rule
that you cannot dispatch to a method of a different name (this is how C<NEXT::> behaves as well).

The next thing to keep in mind is that you will need to pass all arguments to C<next::method>. It can
not automatically use the current C<@_>.

If C<next::method> cannot find a next method to re-dispatch the call to, it will throw an exception.
You can use C<next::can> to see if C<next::method> will succeed before you call it like so:

$self->next::method(@_) if $self->next::can;

Additionally, you can use C<maybe::next::method> as a shortcut to only call the next method if it exists.
The previous example could be simply written as:

$self->maybe::next::method(@_);

There are some caveats about using C<next::method>, see below for those.

=head1 CAVEATS

This module used to be labeled as I<experimental>, however it has now been pretty heavily tested by
the good folks over at L<DBIx::Class> and I am confident this module is perfectly usable for
whatever your needs might be.

But there are still caveats, so here goes ...

=over 4

=item Use of C<SUPER::>.

The idea of C<SUPER::> under multiple inheritance is ambiguous, and generally not recommended anyway.
However, its use in conjunction with this module is very much not recommended, and in fact very
discouraged. The recommended approach is to instead use the supplied C<next::method> feature, see
more details on its usage above.

=item Changing C<@ISA>.

It is the author's opinion that changing C<@ISA> at runtime is pure insanity anyway. However, people
do it, so I must caveat. Any changes to the C<@ISA> will not be reflected in the MRO calculated by this
module, and therefore probably won't even show up. If you do this, you will need to call C<reinitialize>
in order to recalculate B<all> method dispatch tables. See the C<reinitialize> documentation and an example
in F<util20_reinitialize.t> for more information.

=item Adding/deleting methods from class symbol tables.

This module calculates the MRO for each requested class by interrogating the symbol tables of said classes.
So any symbol table manipulation which takes place after our INIT phase is run will not be reflected in
the calculated MRO. Just as with changing the C<@ISA>, you will need to call C<reinitialize> for any
changes you make to take effect.
Calling C<next::method> from methods defined outside the class

There is an edge case when using C<next::method> from within a subroutine which was created in a different module than the one it is called from. It sounds complicated, but it really isn't. Here is an example which will not work correctly:

*Foo::foo = sub { (shift)->next::method(@_) };

The problem exists because the anonymous subroutine being assigned to the glob C<*Foo::foo> will show up in the call stack as being called C<__ANON__> and not C<foo> as you might expect. Since C<next::method> uses C<caller> to find the name of the method it was called in, it will fail in this case.

But fear not, there is a simple solution. The module C<Sub::Name> will reach into the perl internals and assign a name to an anonymous subroutine for you. Simply do this:

use Sub::Name 'subname';
*Foo::foo = subname 'Foo::foo' => sub { (shift)->next::method(@_) };

and things will Just Work. Of course this is not always possible to do, but to be honest, I just can't manage to find a workaround for it, so until someone gives me a working patch this will be a known limitation of this module.

=head1 COMPATIBILITY

If your software requires Perl 5.9.5 or higher, you do not need L<Class::C3>, you can simply C<use mro 'c3'>, and not worry about C<initialize()>, avoid some of the above caveats, and get the best possible performance. See L<mro> for more details.

If your software is meant to work on earlier Perls, use L<Class::C3> as documented here. L<Class::C3> will detect Perl 5.9.5+ and take advantage of the core support when available.

=head1 Class::C3::XS

This module will load L<Class::C3::XS> if it's installed and you are running on a Perl version older than 5.9.5. The optional module will be automatically installed for you if a C compiler is available, as it results in significant performance improvements (but unlike the 5.9.5+ core support, it still has all of the same caveats as L<Class::C3>).

=head1 CODE COVERAGE

L<Devel::Cover> was reporting 94.4% overall test coverage earlier in this module's life. Currently, the test suite does things that break under coverage testing, but it is fair to assume the coverage is still close to that value.

=head1 SEE ALSO

=head2 The original Dylan paper
The prototype Perl 6 Object Model uses C3

Parrot now uses C3

Python 2.3 MRO related links

C3 for TinyCLOS

ACKNOWLEDGEMENTS
Thanks to Matt S. Trout for using this module in his module `DBIx::Class` and finding many bugs and providing fixes.

Thanks to Justin Guenther for making `next::method` more robust by handling calls inside `eval` and anon-sub.

Thanks to Robert Norris for adding support for `next::can` and `maybe::next::method`.

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---

abstract: 'A pragma to use the C3 method resolution order algorithm'

author:
- 'Stevan Little, <stevan@iinteractive.com>'

buildRequires:
  Test::More: '0.47'

configureRequires:
  ExtUtils::MakeMaker: '0'

dynamicConfig: 1

generatedBy: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150001'

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metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: '1.4'

name: Class-C3
1.597 public-suffix 20210108.1309-1

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1.598 netkit-telnet 0.17-40

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1.600 snmp-4j 2.4.1

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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
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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
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.618 grep 2.25 1~16.04.1

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1.619 urllib3 1.13.1

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
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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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  * 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>
  * 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 <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

* 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()`.

* 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.

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

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# Contributions to the urllib3 project

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

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

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

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

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  * 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 <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>
  * 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 <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

* 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()```.

* 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.

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

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1.628 opentracing-mock 0.33.0

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1.632 ubuntu-keyring 2012.05.19

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1.633 asn1crypto 0.22.0
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1.634 libtest-differences-perl 0.64-1
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=head1 LIMITATIONS

=head2 C<Test> or C<Test::More>

This module "mixes in" with Test.pm or any of the test libraries based on
Test::Builder (Test::Simple, Test::More, etc). It does this by peeking to see
whether Test.pm or Test/Builder.pm in %INC, so if you are not using one of
those, it will print a warning and play dumb by not emitting test numbers (or
incrementing them). If you are using one of these, it should interoperate
nicely.

=head2 Exporting
Exports all 3 functions by default (and by design). Use

    use Test::Differences ();

to suppress this behavior if you don't like the namespace pollution.

This module will not override functions like ok(), is(), is_deeply(), etc. If it did, then you could C<eval "use Test::Differences qw( is_deeply );"> to get automatic upgrading to diffing behaviors without the C<sub my_ok> shown above. Test::Differences intentionally does not provide this behavior because this would mean that Test::Differences would need to emulate every popular test module out there, which would require far more coding and maintenance that I'm willing to do. Use the eval and my_ok deployment shown above if you want some level of automation.

=head2 Unicode

Perls before 5.6.0 don't support characters > 255 at all, and 5.6.0 seems broken. This means that you might get odd results using perl5.6.0 with unicode strings.

=head2 C<Data::Dumper> and older Perls.

Relies on Data::Dumper (for now), which, prior to perl5.8, will not always report hashes in the same order. C<$Data::Dumper::Sortkeys> I<is> set to 1, so on more recent versions of Data::Dumper, this should not occur. Check CPAN to see if it's been peeled out of the main perl distribution and backported. Reported by Ilya Martynov <ilya@martynov.org>, although the Sortkeys "future perfect" workaround has been set in anticipation of a new Data::Dumper for a while. Note that the two hashes should report the same here:

    not ok 5
    #   Failed test (t/ctrl/05-home.t at line 51)
    # +------------------------------------------+
    # | Elt|Got                           | Elt|Expected                        |
    # +------------------------------------------+
    # | 0{|   | 0{|                           |
    # | 1| 'password' => '',  | 1| 'password' => '',            |
    # * 2| 'method' => 'login', * | 2| 'ctrl' => 'home',            |
    # | 3| 'ctrl' => 'home', | 2| 'ctrl' => 'home',            |
    # | 4| 'email' => 'test' | 4| 'email' => 'test'           |
    # | 5}|   | 5}|                           |
    # +------------------------------------------+

Data::Dumper also overlooks the difference between

    $a[0] = \$a[1];
$a[1] = \$a[0];  # $a[0] = \$a[1]

and

$x = \$y;
$y = \$x;
@a = ( $x, $y );  # $a[0] = \$y, not \$a[1]

The former involves two scalars, the latter 4: $x, $y, and @a[0,1].
This was carefully explained to me in words of two syllables or less by
Yves Orton <demerphq@hotmail.com>. The plan to address this is to allow
you to select Data::Denter or some other module of your choice as an
option.

=head1 AUTHORS

Barrie Slaymaker <barries@slaysys.com> - original author

Curtis "Ovid" Poe <ovid@cpan.org>

David Cantrell <david@cantrell.org.uk>

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=cut

Found in path(s):
* /opt/cola/permits/1143253259_1615553159.37/0/lib/test-differences-perl-0-64-orig-1-tar-gz/Test-Differences-0.64/lib/Test/Differences.pm
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Test-Differences

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

SUPPORT AND DOCUMENTATION
After installing, you can find documentation for this module with the perldoc command.

perldoc Test::Differences

You can also look for information at:

RT, CPAN's request tracker
  http://rt.cpan.org/NoAuth/Bugs.html?Dist=Test-Differences

AnnoCPAN, Annotated CPAN documentation
  http://annocpan.org/dist/Test-Differences

CPAN Ratings
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---
abstract: 'Test strings and data structures and show differences if not ok'
author:
  - 'David Cantrell <david@cantrell.org.uk>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Test-Differences
no_index:
directory:
  - t
  - inc
requires:
  Capture::Tiny: '0.24'
  Data::Dumper: '2.126'
  Test::More: '0.88'
  Text::Diff: '1.43'
resources:
  bugtracker: https://github.com/Ovid/Test-Differences/issues
  repository: https://github.com/Ovid/Test-Differences
  version: '0.64'

Found in path(s):
* /opt/cola/permits/1143253259_1615553159.37/0/libtest-differences-perl-0-64-orig-1-tar-gz/Test-Differences-0.64/META.yml

1.635 jackson 2.4.0
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Found in path(s):
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidJsonException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidCriteriaException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPathException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Utils.java
1.642 libksba 1.5.0-3
1.642.1 Available under license:

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1.646 libtest-class-perl 0.47-1

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=head1 NAME

Test::Class - Easily create test classes in an xUnit/JUnit style

=head1 SYNOPSIS

package Example::Test;
use base qw(Test::Class);
use Test::More;
# setup methods are run before every test method.
sub make_fixture : Test(setup) {
    my $array = [1, 2];
    shift->{test_array} = $array;
};

# a test method that runs 1 test
sub test_push : Test {
    my $array = shift->{test_array};
    push @$array, 3;
    is_deeply($array, [1, 2, 3], 'push worked');
};

# a test method that runs 4 tests
sub test_pop : Test(4) {
    my $array = shift->{test_array};
    is(pop @$array, 2, 'pop = 2');
    is(pop @$array, 1, 'pop = 1');
    is_deeply($array, [], 'array empty');
    is(pop @$array, undef, 'pop = undef');
};

# teardown methods are run after every test method.
sub teardown : Test(teardown) {
    my $array = shift->{test_array};
    diag("array = (@$array) after test(s)");
};

later in a nearby .t file

#!/usr/bin/perl
use Example::Test;

# run all the test methods in Example::Test
Test::Class->runtests;

Outputs:

1..5
ok 1 - pop = 2
ok 2 - pop = 1
ok 3 - array empty
ok 4 - pop = undef
# array = () after test(s)
ok 5 - push worked
# array = (1 2 3) after test(s)
Test::Class provides a simple way of creating classes and objects to test your code in an xUnit style.

Built using L<Test::Builder>, it was designed to work with other Test::Builder based modules (L<Test::More>, L<Test::Differences>, L<Test::Exception>, etc.).

I<Note:> This module will make more sense, if you are already familiar with the "standard" mechanisms for testing perl code. Those unfamiliar with L<Test::Harness>, L<Test::Simple>, L<Test::More> and friends should go take a look at them now. L<Test::Tutorial> is a good starting point.

Introduction

A brief history lesson

In 1994 Kent Beck wrote a testing framework for Smalltalk called SUnit. It was popular. You can read a copy of his original paper at L<http://www.xprogramming.com/testfram.htm>.

Later Kent Beck and Erich Gamma created JUnit for testing Java L<http://www.junit.org/>. It was popular too.

Now there are xUnit frameworks for every language from Ada to XSLT. You can find a list at L<http://www.xprogramming.com/software.htm>.

While xUnit frameworks are traditionally associated with unit testing they are also useful in the creation of functional/acceptance tests.

Test::Class is (yet another) implementation of xUnit style testing in Perl.

Why you should use Test::Class

Test::Class attempts to provide simple xUnit testing that integrates simply with the standard perl *.t style of testing. In particular:

All the advantages of xUnit testing. You can easily create test fixtures and isolate tests. It provides a framework that should be familiar to people who have used other xUnit style test systems.

It is built with L<Test::Builder> and should co-exist happily with all other Test::Builder based modules. This makes using test classes in *.t scripts, and refactoring normal tests into test classes, much simpler because:
You do not have to learn a new set of new test APIs and can continue using ok(), like(), etc. from L<Test::More> and friends.

Skipping tests and todo tests are supported.

You can have normal tests and Test::Class classes co-existing in the same *.t script. You don't have to re-write an entire script, but can use test classes as and when it proves useful.

You can easily package your tests as classes/modules, rather than *.t scripts. This simplifies reuse, documentation and distribution, encourages refactoring, and allows tests to be extended by inheritance.

You can have multiple setup/teardown methods. For example have one teardown method to clean up resources and another to check that class invariants still hold.

It can make running tests faster. Once you have refactored your *.t scripts into classes they can be easily run from a single script. This gains you the (often considerable) start up time that each separate *.t script takes.

If your *.t scripts are working fine then don't bother with Test::Class. For simple test suites it is almost certainly overkill. Don't start thinking about using Test::Class until issues like duplicate code in your test scripts start to annoy.
If you are distributing your code it is yet another module that the user has to have to run your tests (unless you
distribute it with your test suite of course).

=item *

If you are used to the TestCase/Suite/Runner class structure used by JUnit and similar testing frameworks you may
find Test::Unit more familiar (but try reading L</"HELP FOR CONFUSED JUNIT USERS"> before you give up).

=back

=head1 TEST CLASSES

A test class is just a class that inherits from Test::Class. Defining a test class is as simple as doing:

package Example::Test;
use base qw(Test::Class);

Since Test::Class does not provide its own test functions, but uses those provided by L<Test::More> and friends,
you will nearly always also want to have:

use Test::More;

to import the test functions into your test class.

=head1 METHOD TYPES

There are three different types of method you can define using Test::Class.

=head2 1) Test methods

You define test methods using the L<Test|/_Test"> attribute. For example:

package Example::Test;
use base qw(Test::Class);
use Test::More;

sub subtraction : Test {
  is( 2-1, 1, 'subtraction works' );
};

This declares the C<subtraction> method as a test method that runs one test.

If your test method runs more than one test, you should put the number of tests in brackets like this:

sub addition : Test(2) {
  is(10 + 20, 30, 'addition works');
is(20 + 10, 30, ' both ways');

If you don't know the number of tests at compile time you can use `<no_plan>` like this.

```perl
sub check_class : Test(no_plan) {
  my $objects = shift->{objects};
  isa_ok($_, "Object") foreach @objects;
}
```

or use the `<Tests>` attribute, which acts just like `<:Test>` but defaults to `<no_plan>` if no number is given:

```perl
sub check_class : Tests {
  my $objects = shift->{objects};
  isa_ok($_, "Object") foreach @objects;
}
```

=head2 2) Setup and teardown methods

Setup and teardown methods are run before and after every test. For example:

```perl
sub before : Test(setup)    { diag("running before test") };
sub after  : Test(teardown) { diag("running after test") };
```

You can use setup and teardown methods to create common objects used by all of your test methods (a test fixture) and store them in your Test::Class object, treating it as a hash. For example:

```perl
sub pig : Test(setup) {
  my $self = shift;
  $self->{test_pig} = Pig->new;
}

sub born_hungry : Test {
  my $pig = shift->{test_pig};
  is($pig->hungry, 'pigs are born hungry');
}

sub eats : Test(3) {
  my $pig = shift->{test_pig};
  ok( $pig->feed,  'pig fed okay');
  ok(! $pig->hungry, 'fed pig not hungry');
  ok(! $pig->feed,  'cannot feed full pig');
}
```

You can also declare setup and teardown methods as running tests. For example you could check that the test pig survives each test method by doing:
sub pig_alive : Test(teardown => 1) {
    my $pig = shift->{test_pig};
    ok($pig->alive, 'pig survived tests');
};

=head2 3) Startup and shutdown methods

Startup and shutdown methods are like setup and teardown methods for the whole test class. All the startup methods
are run once when you start running a test class. All the shutdown methods are run once just before a test class stops
running.

You can use these to create and destroy expensive objects that you don't want to have to create and destroy for every
test - a database connection for example:

sub db_connect : Test(startup) {
    shift->{dbi} = DBI->connect;
};

sub db_disconnect : Test(shutdown) {
    shift->{dbi}->disconnect;
};

Just like setup and teardown methods you can pass an optional number of tests to startup and shutdown methods.
For example:

sub example : Test(startup => 1) {
    ok(1, 'a startup method with one test');
};

If you want to run an unknown number of tests within your startup method, you need to say e.g.

sub example : Test(startup => no_plan) {
    ok(1, q{The first of many tests that don't want to have to count});
    ...
}

as the : Tests attribute behaves exactly like : Test in this context.

If a startup method has a failing test or throws an exception then all other tests for the current test object are ignored.

=head1 RUNNING TESTS

You run test methods with L<runtests()|"runtests">. Doing:

Test::Class->runtests
runs all of the test methods in every loaded test class. This allows you to easily load multiple test classes in a *.t file and run them all.

```perl
#! /usr/bin/perl

# load all the test classes I want to run
use Foo::Test;
use Foo::Bar::Test;
use Foo::Fribble::Test;
use Foo::Ni::Test;

# and run them all
Test::Class->runtests;
```

You can use `L<Test::Class::Load>` to automatically load all the test classes in a given set of directories.

If you need finer control you can create individual test objects with `L<new()|"new">`. For example to just run the tests in the test class `C<Foo::Bar::Test>` you can do:

```perl
Example::Test->new->runtests
```

You can also pass `L<runtests()>|/"runtests">` a list of test objects to run. For example:

```perl
my $o1 = Example::Test->new;
my $o2 = Another::Test->new;
# runs all the tests in $o1 and $o2
$o1->runtests($o2);
```

Since, by definition, the base `Test::Class` has no tests you could also have written:

```perl
my $o1 = Example::Test->new;
my $o2 = Another::Test->new;
Test::Class->runtests($o1, $o2);
```

If you pass `L<runtests()>|/"runtests">` class names it will automatically create test objects for you, so the above can be written more compactly as:

```perl
Test::Class->runtests(qw( Example::Test Another::Test ))
```

In all of the above examples `L<runtests()>|/"runtests">` will look at the number of tests both test classes run and output an appropriate test header for `L<Test::Harness>` automatically.

What happens if you run test classes and normal tests in the same script? For example:

```perl
Test::Class->runtests;
ok(Example->new->foo, 'a test not in the test class');
ok(Example->new->bar, 'ditto');
```
L<Test::Harness> will complain that it saw more tests than it expected since the test header output by 
L<runtests()>/"runtests"> will not include the two normal tests.

To overcome this problem you can pass an integer value to L<runtests()>/"runtests">. This is added to the total 
number of tests in the test header. So the problematic example can be rewritten as follows:

Test::Class->runtests(+2);
ok(Example->new->foo, 'a test not in the test class');
ok(Example->new->bar, 'ditto');

If you prefer to write your test plan explicitly you can use L<expected_tests()>/"expected_tests"> to find out the 
number of tests a class/object is expected to run.

Since L<runtests()>/"runtests"> will not output a test plan if one has already been set the previous example can be 
written as:

plan tests => Test::Class->expected_tests(+2);
Test::Class->runtests;
ok(Example->new->foo, 'a test not in the test class');
ok(Example->new->bar, 'ditto');

I<Remember:> Test objects are just normal perl objects. Test classes are just normal perl classes. Setup, test and 
tear down methods are just normal methods. You are completely free to have other methods in your class that are 
called from your test methods, or have object specific C<new> and C<DESTROY> methods.

In particular you can override the new() method to pass parameters to your test object, or re-define the number of 
tests a method will run. See L<num_method_tests()>/"num_method_tests"> for an example.

=head1 TEST DESCRIPTIONS

The test functions you import from L<Test::More> and other L<Test::Builder> based modules usually take an 
optional third argument that specifies the test description, for example:

is $something, $something_else, 'a description of my test';

If you do not supply a test description, and the test function does not supply its own default, then Test::Class will 
use the name of the currently running test method, replacing all "_" characters with spaces so:

sub one_plus_one_is_two : Test {
    is 1+1, 2;
}

will result in:

ok 1 - one plus one is two
RUNNING ORDER OF METHODS

Methods of each type are run in the following order:

item 1.
All of the startup methods in alphabetical order

item 2.
For each test method, in alphabetical order:

item *
All of the setup methods in alphabetical order

item *
The test method.

item *
All of the teardown methods in alphabetical order

item 3.
All of the shutdown methods in alphabetical order.

Most of the time you should not care what order tests are run in, but it can occasionally be useful to force some test methods to be run early. For example:

sub _check_new {
    my $self = shift;
    isa_ok(Object->new, "Object") or $self->BAILOUT('new fails!');
};

The leading C<_> will force the above method to run first - allowing the entire suite to be aborted before any other test methods run.
=head1 HANDLING EXCEPTIONS

If a startup, setup, test, teardown or shutdown method dies then L<runtests()> will catch the exception and fail any remaining test. For example:

    sub test_object : Test(2) {
        my $object = Object->new;
        isa_ok( $object, "Object" ) or die "could not create object\n";
        ok( $object->open, "open worked" );
    }

will produce the following if the first test failed:

    not ok 1 - The object isa Object
    # Failed test 'The object isa Object'
    # at /Users/adrianh/Desktop/foo.pl line 14.
    # (in MyTest->test_object)
    # The object isn't defined
    not ok 2 - test_object died (could not create object)
    # Failed test 'test_object died (could not create object)'
    # at /Users/adrianh/Desktop/foo.pl line 19.
    # (in MyTest->test_object)

This can considerably simplify testing code that throws exceptions.

Rather than having to explicitly check that the code exited normally (e.g. with L<Test::Exception/lives_ok>) the test will fail automatically - without aborting the other test methods. For example contrast:

    use Test::Exception;
    my $file;
    lives_ok { $file = read_file('test.txt') } 'file read';
    is($file, "content", 'test file read');

with:

    sub read_file : Test {
        is(read_file('test.txt'), "content", 'test file read');
    }

If more than one test remains after an exception then the first one is failed, and the remaining ones are skipped.

If the setup method of a test method dies, then all of the remaining setup and shutdown methods are also skipped.

Since startup methods will usually be creating state needed by all the other test methods an exception within a startup method will prevent all other test methods of that class running.
RETURNING EARLY

If a test method returns before it has run all of its tests, by default the missing tests are deemed to have been skipped; see L<"Skipped Tests"> for more information.

However, if the class's C<fail_if_returned_early> method returns true, then the missing tests will be deemed to have failed. For example,

```perl
package MyClass;
use base 'Test::Class';
sub fail_if_returned_early { 1 }

sub oops : Tests(8) {
    for (my $n=1; $n*$n<50; ++$n) {
        ok 1, "$n squared is less than fifty";
    }
}
```

SKIPPED TESTS

You can skip the rest of the tests in a method by returning from the method before all the test have finished running (but see L<"Returning Early"> for how to change this). The value returned is used as the reason for the tests being skipped.

This makes managing tests that can be skipped for multiple reasons very simple. For example:

```perl
sub flying_pigs : Test(5) {
    my $pig = Pig->new;
    isa_ok($pig, 'Pig') or return("cannot breed pigs")
    can_ok($pig, 'takeoff') or return("pigs don't fly here");
    ok($pig->takeoff, 'takeoff') or return("takeoff failed");
    ok($pig->altitude > 0, 'Pig is airborne');
    ok($pig->airspeed > 0, ' and moving');
}
```

If you run this test in an environment where C<Pig-E<gt>new> worked and the takeoff method existed, but failed when ran, you would get:

```
ok 1 - The object isa Pig
ok 2 - can takeoff
not ok 3 - takeoff
ok 4 # skip takeoff failed
ok 5 # skip takeoff failed
```

You can also skip tests just as you do in Test::More or Test::Builder - see L<Test::More/"Conditional tests"> for more information.
I<Note:> if you want to skip tests in a method with C<no_plan> tests then you have to explicitly skip the tests in the method - since Test::Class cannot determine how many tests (if any) should be skipped:

sub test_objects : Tests {
    my $self = shift;
    my $objects = $self->{objects};
    if (@$objects) {
        isa_ok($_, "Object") foreach (@$objects);
    } else {
        $self->builder->skip("no objects to test");
    }
};

Another way of overcoming this problem is to explicitly set the number of tests for the method at run time using L<num_method_tests()|/"num_method_tests"> or L<"num_tests">.

You can make a test class skip all of its tests by setting L<SKIP_CLASS()|SKIP_CLASS> before L<runtests()|"runtests"> is called.

=head1 TO DO TESTS

You can create todo tests just as you do in L<Test::More> and L<Test::Builder> using the C<$TODO> variable. For example:

sub live_test : Test {
    local $TODO = "live currently unimplemented";
    ok(Object->live, "object live");
};

See L<Test::Harness/"Todo tests"> for more information.

=head1 EXTENDING TEST CLASSES BY INHERITANCE

You can extend test methods by inheritance in the usual way. For example consider the following test class for a C<Pig> object.

package Pig::Test;
use base qw(Test::Class);
use Test::More;

sub testing_class { "Pig" };
sub new_args { (-age => 3) };

sub setup : Test(setup) {
    my $self = shift;
    my $class = $self->testing_class;
    my @args = $self->new_args;

$self->{pig} = $class->new( @args );
;

sub _creation : Test {
    my $self = shift;
    isa_ok($self->{pig}, $self->testing_class)
    or $self->FAIL_ALL('Pig->new failed');
};

sub check_fields : Test {
    my $pig = shift->{pig};
    is($pig->age, 3, "age accessed");
};

Next consider C<NamedPig> a subclass of C<Pig> where you can give your pig a name.

We want to make sure that all the tests for the C<Pig> object still work for C<NamedPig>. We can do this by subclassing C<Pig::Test> and overriding the C<testing_class> and C<new_args> methods.

package NamedPig::Test;
use base qw(Pig::Test);
use Test::More;

sub testing_class { "NamedPig" };
sub new_args { (shift->SUPER::new_args, -name => 'Porky') };

Now we need to test the name method. We could write another test method, but we also have the option of extending the existing C<check_fields> method.

sub check_fields : Test(2) {
    my $self = shift;
    $self->SUPER::check_fields;
    is($self->{pig}->name, 'Porky', 'name accessed');
};

While the above works, the total number of tests for the method is dependent on the number of tests in its C<SUPER::check_fields>. If we add a test to C<Pig::Test-E<gt>check_fields> we will also have to update the number of tests of C<NamedPig::test-E<gt>check_fields>.

Test::Class allows us to state explicitly that we are adding tests to an existing method by using the C<+> prefix. Since we are adding a single test to C<check_fields> it can be rewritten as:

sub check_fields : Test(+1) {
    my $self = shift;
    $self->SUPER::check_fields;
    is($self->{pig}->name, 'Porky', 'name accessed');
};
With the above definition you can add tests to C<check_fields> in C<Pig::Test> without affecting C<NamedPig::Test>.

=head1 RUNNING INDIVIDUAL TESTS

B<NOTE:> The exact mechanism for running individual tests is likely to change in the future.

Sometimes you just want to run a single test. Commenting out other tests or writing code to skip them can be a hassle, so you can specify the C<TEST_METHOD> environment variable. The value is expected to be a valid regular expression and, if present, only runs test methods whose names match the regular expression. Startup, setup, teardown and shutdown tests will still be run.

One easy way of doing this is by specifying the environment variable I<before> the C<runtests> method is called.

Running a test named C<customer_profile>:

#! /usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = 'customer_profile';
Test::Class->runtests;

Running all tests with C<customer> in their name:

#! /usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = '.*customer.*';
Test::Class->runtests;

If you specify an invalid regular expression, your tests will not be run:

#! /usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = 'C++';
Test::Class->runtests;

And when you run it:

TEST_METHOD (C++) is not a valid regular expression: Search pattern \ not terminated at (eval 17) line 1.

=head1 ORGANISING YOUR TEST CLASSES

You can, of course, organise your test modules as you wish. My personal preferences is:
Name test classes with a suffix of \texttt{C<::Test>} so the test class for the \texttt{C<Foo::Bar>} module would be \texttt{C<Foo::Bar::Test>}.

Place all test classes in \texttt{F<t/lib>}.

The \texttt{L<Test::Class::Load>} provides a simple mechanism for easily loading all of the test classes in a given set of directories.

\textbf{A NOTE ON LOADING TEST CLASSES}

Due to its use of subroutine attributes \texttt{Test::Class} based modules must be loaded at compile rather than run time. This is because the \texttt{:Test} attribute is applied by a CHECK block.

This can be problematic if you want to dynamically load \texttt{Test::Class} modules. Basically while:

\begin{verbatim}
require $some_test_class;
\end{verbatim}

will break, doing:

\begin{verbatim}
BEGIN { require $some_test_class; }
\end{verbatim}

will work just fine. For more information on CHECK blocks see \texttt{L<perlmod/"BEGIN, CHECK, INIT and END".}

If you still can't arrange for your classes to be loaded at runtime, you could use an alternative mechanism for adding your tests:

\begin{verbatim}
# sub test_something : Test(3) {...}
# becomes
sub test_something {...}
__PACKAGE__->add_testinfo('test_something', test => 3);
\end{verbatim}

See the \texttt{L<add_testinfo/"add_testinfo"} method for more details.

\textbf{GENERAL FILTERING OF TESTS}

The use of \texttt{SENV[TEST_METHOD]} to run just a subset of tests is useful, but sometimes it doesn't give the level of granularity that you desire. Another feature of this class is the ability to do filtering on other static criteria.
In order to permit this, a generic filtering method is supported. This can be used by specifying coderefs to the `add_filter` method of this class.

In determining which tests should be run, all filters that have previously been specified via the `add_filter` method will be run in-turn for each normal test method. If B\any\ of these filters return a false value, the method will not be executed, or included in the number of tests. Note that filters will only be run for normal test methods, they are ignored for startup, shutdown, setup, and teardown test methods.

Note that test filters are global, and will affect all tests in all classes, not just the one that they were defined in.

An example of this mechanism that mostly simulates the use of TEST_METHOD above is:

```perl
package MyTests;

use Test::More;

use base qw( Test::Class );

my $MYTEST_METHOD = qr/^t_not_filtered$/;

my $filter = sub {
    my ( $test_class, $test_method ) = @_;

    return $test_method =~ $MYTEST_METHOD;
};
Test::Class->add_filter( $filter );

sub t_filtered : Test( 1 ) {
    fail( "filtered test run" );
}

sub t_not_filtered : Test( 1 ) {
    pass( "unfiltered test run" );
}

=head1 METHODS

=head2 Creating and running tests

=over 4

=item B<Test>

# test methods
```
sub method_name : Test { ... };
sub method_name : Test(N) { ... };

# setup methods
sub method_name : Test(setup) { ... };
sub method_name : Test(setup => N) { ... };

# teardown methods
sub method_name : Test(teardown) { ... };
sub method_name : Test(teardown => N) { ... };

# startup methods
sub method_name : Test(startup) { ... };
sub method_name : Test(startup => N) { ... };

# shutdown methods
sub method_name : Test(shutdown) { ... };
sub method_name : Test(shutdown => N) { ... };

Marks a startup, setup, test, teardown or shutdown method. See L<runtests()> for information on how to run methods declared with the C<Test> attribute.

N specifies the number of tests the method runs.

=over 4

=item *

If N is an integer then the method should run exactly N tests.

=item *

If N is an integer with a C<+> prefix then the method is expected to call its C<SUPER::> method and extend it by running N additional tests.

=item *

If N is the string C<no_plan> then the method can run an arbitrary number of tests.

=back

If N is not specified it defaults to C<1> for test methods, and C<0> for startup, setup, teardown and shutdown methods.

You can change the number of tests that a method runs using L<num_method_tests()> or L<num_tests>().
sub method_name : Tests { ... };
sub method_name : Tests(N) { ... };

Acts just like the C<:Test> attribute, except that if the number of tests is not specified it defaults to C<no_plan>. So the following are equivalent:

sub silly1 : Test( no_plan ) { ok(1) foreach (1 .. rand 5) };
sub silly2 : Tests { ok(1) foreach (1 .. rand 5) };

=item B<new>

$Tests = CLASS->new(KEY => VAL ...)
$Tests2 = $Tests->new(KEY => VAL ...)

Creates a new test object (blessed hashref) containing the specified key/value pairs.

If called as an object method the existing object's key/value pairs are copied into the new object. Any key/value pairs passed to C<new> override those in the original object if duplicates occur.

Since the test object is passed to every test method as it runs it is a convenient place to store test fixtures. For example:

sub make_fixture : Test(setup) {
  my $self = shift;
  $self->{object} = Object->new();
  $self->{dbh} = Mock::DBI->new(-type => normal);
};

sub test_open : Test {
  my $self = shift;
  my ($o, $dbh) = ($self->{object}, $self->{dbh});
  ok($o->open($dbh), "opened ok");
};

See L<num_method_tests()|/"num_method_tests"> for an example of overriding C<new>.

=item B<expected_tests>

$n = $Tests->expected_tests
$n = CLASS->expected_tests
$n = $Tests->expected_tests(TEST, ...)
$n = CLASS->expected_tests(TEST, ...)

Returns the total number of tests that L<runtests()|/"runtests"> will run on the specified class/object. This includes
tests run by any setup and teardown methods.

Will return C<no_plan> if the exact number of tests is undetermined (i.e. if any setup, test or teardown method has an undetermined number of tests).

The C<expected_tests> of an object after L<runtests()|"runtests"> has been executed will include any run time changes to the expected number of tests made by L<num_tests()|"num_tests"> or L<num_method_tests()|"num_method_tests">.

C<expected_tests> can also take an optional list of test objects, test classes and integers. In this case the result is the total number of expected tests for all the test/object classes (including the one the method was applied to) plus any integer values.

C<expected_tests> is useful when you’re integrating one or more test classes into a more traditional test script, for example:

use Test::More;
use My::Test::Class;

plan tests => My::Test::Class->expected_tests(+2);

ok(whatever, 'a test');
ok(whatever, 'another test');
My::Test::Class->runtests;

=item B<runtests>

$allok = $Tests->runtests
$allok = CLASS->runtests
$allok = $Tests->runtests(TEST, ...)
$allok = CLASS->runtests(TEST, ...)

C<runtests> is used to run test classes. At its most basic doing:

$test->runtests

will run the test methods of the test object $test, unless C<< $test->SKIP_CLASS >> returns a true value.

Unless you have already specified a test plan using Test::Builder (or Test::More, et al) C<runtests> will set the test plan just before the first method that runs a test is executed.

If the environment variable C<TEST_VERBOSE> is set C<runtests> will display the name of each test method before it runs like this:

# My::Test::Class->my_test
ok 1 - fribble
Just like \texttt{L\textasciitilde{expected_tests}}/\texttt{expected_tests}, \texttt{C<runtests>} can take an optional list of test object/classes and integers. All of the test object/classes are run. Any integers are added to the total number of tests shown in the test header output by \texttt{C<runtests>}.

For example, you can run all the tests in test classes A, B and C, plus one additional normal test by doing:

\begin{verbatim}
Test::Class->runtests(qw(A B C), +1);
ok(1==1, 'non class test');
\end{verbatim}

Finally, if you call \texttt{C<runtests>} on a test class without any arguments it will run all of the test methods of that class, and all subclasses of that class. For example:

\begin{verbatim}
#!/usr/bin/perl
# Test all the Foo stuff
use Foo::Test;
use Foo::Bar::Test;
use Foo::Ni::Test;

# run all the Foo*Test modules we just loaded
Test::Class->runtests;
\end{verbatim}

\item \textbf{SKIP_CLASS}

$reason = CLASS->SKIP_CLASS;
CLASS->SKIP_CLASS( $reason );

Determines whether the test class \texttt{CLASS} should run it's tests. If \texttt{SKIP_CLASS} returns a true value then \texttt{L<runtests()}/\texttt{runtests>} will not run any of the test methods in \texttt{CLASS}.

You can override the default on a class-by-class basis by supplying a new value to \texttt{SKIP_CLASS}. For example if you have an abstract base class that should not run just add the following to your module:

\begin{verbatim}
My::Abstract::Test->SKIP_CLASS( 1 );
\end{verbatim}

This will not affect any sub-classes of \texttt{C<My::Abstract::Test>} which will run as normal.

If the true value returned by \texttt{SKIP_CLASS} is anything other than "1" then a skip test is output using this value as the skip message. For example:

\begin{verbatim}
My::Postgres::Test->SKIP_CLASS(
    $ENV{POSTGRES_HOME} ? 0 : '$POSTGRES_HOME needs to be set'
);)
\end{verbatim}
will output something like this if C<POSTGRES_HOME> is not set

... other tests ...
ok 123 # skip My::Postgres::Test - $POSTGRES_HOME needs to be set
... more tests ...

You can also override SKIP_CLASS for a class hierarchy. For example, to prevent any subclasses of My::Postgres::Test running we could override SKIP_CLASS like this:

    sub My::Postgres::Test::SKIP_CLASS {  
        $ENV{POSTGRES_HOME} ? 0 : '$POSTGRES_HOME needs to be set'  
    :=back
    =head2 Fetching and setting a method's test number

    =over 4
    =item B<num_method_tests>

    $n = $Tests->num_method_tests($method_name)
    $Tests->num_method_tests($method_name, $n)
    $n = CLASS->num_method_tests($method_name)
    CLASS->num_method_tests($method_name, $n)

    Fetch or set the number of tests that the named method is expected to run.

    If the method has an undetermined number of tests then $n should be the string C<no_plan>.

    If the method is extending the number of tests run by the method in a superclass then $n should have a C<+> prefix.

    When called as a class method any change to the expected number of tests applies to all future test objects. Existing test objects are unaffected.

    When called as an object method any change to the expected number of tests applies to that object alone.

    C<num_method_tests> is useful when you need to set the expected number of tests at object creation time, rather than at compile time.

    For example, the following test class will run a different number of tests depending on the number of objects supplied.

    package Object::Test;
    use base qw(Test::Class);
    use Test::More;
sub new {
    my $class = shift;
    my $self = $class->SUPER::new(@_);
    my $num_objects = @{$self->{objects}};
    $self->num_method_tests('test_objects', $num_objects);
    return($self);
};

sub test_objects : Tests {
    my $self = shift;
    ok($_->open, "opened $_") foreach @{$self->{objects}};
};
...
# This runs two tests
Object::Test->new(objects => [$o1, $o2]);

The advantage of setting the number of tests at object creation time, rather than using a test method without a plan, is that the number of expected tests can be determined before testing begins. This allows better diagnostics from L<runtests()|/"runtests">, L<Test::Builder> and L<Test::Harness>.

C<num_method_tests> is a protected method and can only be called by subclasses of Test::Class. It fetches or sets the expected number of tests for the methods of the class it was I<called in>, not the methods of the object/class it was I<applied to>. This allows test classes that use C<num_method_tests> to be subclassed easily.

For example, consider the creation of a subclass of Object::Test that ensures that all the opened objects are read-only:

package Special::Object::Test;
use base qw/Object::Test/;
use Test::More;

sub test_objects : Test(+1) {
    my $self = shift;
    $self->SUPER::test_objects;
    my @bad_objects = grep {! $_->read_only} (@{$self->{objects}});
    ok(@bad_objects == 0, "all objects read only");
};
...
# This runs three tests
Special::Object::Test->new(objects => [$o1, $o2]);

Since the call to C<num_method_tests> in Object::Test only affects the C<test_objects> of Object::Test, the above works as you would expect.

=item B<num_tests>

$n = $Tests->num_tests
Set or return the number of expected tests associated with the currently running test method. This is the same as calling \texttt{L<num_method_tests()|"num_method_tests">} with a method name of \texttt{L<current_method()|"current_method">}.

For example:

```perl
sub txt_files_readable : Tests {
    my $self = shift;
    my @files = <*.txt>;
    $self->num_tests(scalar(@files));
    ok(-r $_, "$_ readable") foreach (@files);
}
```

Setting the number of expected tests at run time, rather than just having a \texttt{C<no_plan>} test method, allows \texttt{L<runtests()|"runtests">} to display appropriate diagnostic messages if the method runs a different number of tests.

=head2 Support methods

=item B<builder>

\$Tests->builder

Returns the underlying \texttt{L<Test::Builder> object} that \texttt{Test::Class} uses. For example:

```perl
sub test_close : Test {
    my $self = shift;
    my ($o, $dbh) = ($self->{object}, $self->{dbh});
    $self->builder->ok($o->close($dbh), "closed ok");
}
```

=item B<current_method>

\$method_name = $Tests->current_method

\$method_name = CLASS->current_method

Returns the name of the test method currently being executed by \texttt{L<runtests()|"runtests">}, or \texttt{C<undef>} if \texttt{L<runtests()|"runtests">} has not been called.

The method name is also available in the setup and teardown methods that run before and after the test method. This
can be useful in producing diagnostic messages, for example:

```perl
sub test_invariant : Test(teardown => 1) {
    my $self = shift;
    my $m = $self->current_method;
    ok($self->invariant_ok, "class okay after $m");
}
```

=item B<BAILOUT>

$Tests->BAILOUT($reason)
CLASS->BAILOUT($reason)

Things are going so badly all testing should terminate, including running any additional test scripts invoked by L<Test::Harness>. This is exactly the same as doing:

$self->builder->BAILOUT

See L<Test::Builder/"BAILOUT"> for details. Any teardown and shutdown methods are I<not> run.

=item B<FAIL_ALL>

$Tests->FAIL_ALL($reason)
CLASS->FAIL_ALL($reason)

Things are going so badly all the remaining tests in the current script should fail. Exits immediately with the number of tests failed, or C<254> if more than 254 tests were run. Any teardown methods are I<not> run.

This does not affect the running of any other test scripts invoked by L<Test::Harness>.

For example, if all your tests rely on the ability to create objects then you might want something like this as an early test:

```perl
sub _test_new : Test(3) {
    my $self = shift;
    isa_ok(Object->new, "Object")
        || $self->FAIL_ALL(‘cannot create Objects’);
    ...
}
```

=item B<SKIP_ALL>

$Tests->SKIP_ALL($reason)
CLASS->SKIP_ALL($reason)

Things are going so badly all the remaining tests in the current script should be skipped. Exits immediately with
C<0> - teardown methods are I<not> run.

This does not affect the running of any other test scripts invoked by L<Test::Harness>.

For example, if you had a test script that only applied to the darwin OS you could write:

    sub _darwin_only : Test(setup) {
        my $self = shift;
        $self->SKIP_ALL("darwin only") unless $^O eq "darwin";
    }

=item B<add_testinfo>

    CLASS->add_testinfo($name, $type, $num_tests)

Chiefly for use by libraries like L<Test::Class::Sugar>, which can’t use the C<:Test(...) > interfaces make test
methods. C<add_testinfo> informs the class about a test method that has been defined without a C< Test>, C<Tests>
or other attribute.

C<$name> is the name of the method, C<$type> must be one of C<startup>, C<setup>, C<test>, C<teardown> or
C<shutdown>, and C<$num_tests> has the same meaning as C<N> in the description of the L<Test|/"Test"> attribute.

=item B<add_filter>

    CLASS->add_filter($filter_coderef);

Adds a filtering coderef. Each filter is passed a test class and method name and returns a boolean. All filters are
applied globally in the order they were added. If any filter returns false the test method is not run or included in the
number of tests.

Note that filters will only be run for normal test methods, they are ignored for startup, shutdown, setup, and
teardown test methods.

See the section on the L<"GENERAL FILTERING OF TESTS"> for more information.

=item B<fail_if_returned_early>

Controls what happens if a method returns before it has run all of its tests. It is called with no arguments in boolean
context; if it returns true, then the missing tests fail, otherwise, they skip. See L<"Returning Early"> and
L<"Skipped Tests">.
HELP FOR CONFUSED JUNIT USERS

This section is for people who have used JUnit (or similar) and are confused because they don't see the TestCase/Suite/Runner class framework they were expecting. Here we take each of the major classes in JUnit and compare them with their equivalent Perl testing modules.

=over 4

=item B<Class Assert>

The test assertions provided by Assert correspond to the test functions provided by the L<Test::Builder> based modules (L<Test::More>, L<Test::Exception>, L<Test::Differences>, etc.)

Unlike JUnit the test functions supplied by Test::More et al do I<not> throw exceptions on failure. They just report the failure to STDOUT where it is collected by L<Test::Harness>. This means that where you have

sub foo : Test(2) {
  ok($foo->method1);
  ok($foo->method2);
};

The second test I<will> run if the first one fails. You can emulate the JUnit way of doing it by throwing an explicit exception on test failure:

sub foo : Test(2) {
  ok($foo->method1) or die "method1 failed";
  ok($foo->method2);
};

The exception will be caught by Test::Class and the other test automatically failed.

=item B<Class TestCase>

Test::Class corresponds to TestCase in JUnit.

In Test::Class setup, test and teardown methods are marked explicitly using the L<Test>/"Test" attribute. Since we need to know the total number of tests to provide a test plan for L<Test::Harness> we also state how many tests each method runs.

Unlike JUnit you can have multiple setup/teardown methods in a class.

=item B<Class TestSuite>

Test::Class also does the work that would be done by TestSuite in JUnit.
Since the methods are marked with attributes Test::Class knows what is and isn't a test method. This allows it to run all the test methods without having the developer create a suite manually, or use reflection to dynamically determine the test methods by name. See the L<runtests()|"runtests"> method for more details.

The running order of the test methods is fixed in Test::Class. Methods are executed in alphabetical order.

Unlike JUnit, Test::Class currently does not allow you to run individual test methods.

=item B<Class TestRunner>

L<Test::Harness> does the work of the TestRunner in JUnit. It collects the test results (sent to STDOUT) and collates the results.

Unlike JUnit there is no distinction made by Test::Harness between errors and failures. However, it does support skipped and todo test - which JUnit does not.

If you want to write your own test runners you should look at L<Test::Harness::Straps>.

=back

=head1 OTHER MODULES FOR XUNIT TESTING IN PERL

In addition to Test::Class there are two other distributions for xUnit testing in perl. Both have a longer history than Test::Class and might be more suitable for your needs.

I am biased since I wrote Test::Class - so please read the following with appropriate levels of scepticism. If you think I have misrepresented the modules please let me know.

=over 4

=item B<Test::SimpleUnit>

A very simple unit testing framework. If you are looking for a lightweight single module solution this might be for you.

The advantage of L<Test::SimpleUnit> is that it is simple! Just one module with a smallish API to learn.

Of course this is also the disadvantage.

It's not class based so you cannot create testing classes to reuse and extend.

It doesn't use L<Test::Builder> so it's difficult to extend or integrate with other testing modules. If you are already familiar with L<Test::Builder>, L<Test::More> and friends you will have to learn a new test assertion API. It does not support L<todo tests/Test::Harness/"Todo tests">.

=item B<Test::Unit>
L<Test::Unit> is a port of JUnit L<http://www.junit.org/> into perl. If you have used JUnit then the Test::Unit framework should be very familiar.

It is class based so you can easily reuse your test classes and extend by subclassing. You get a nice flexible framework you can tweak to your heart's content. If you can run Tk you also get a graphical test runner.

However, Test::Unit is not based on L<Test::Builder>. You cannot easily move Test::Builder based test functions into Test::Unit based classes. You have to learn another test assertion API.

Test::Unit implements it's own testing framework separate from L<Test::Harness>. You can retrofit *.t scripts as unit tests, and output test results in the format that L<Test::Harness> expects, but things like L<todo tests[Test::Harness/"Todo tests"> and L<skipping tests[Test::Harness/"Skipping tests"> are not supported.

=head1 BUGS

None known at the time of writing.

If you find any bugs please let me know by e-mail at <adrianh@quietstars.com>, or report the problem with L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=Test-Class>.

=head1 COMMUNITY

=head2 perl-qa

If you are interested in testing using Perl I recommend you visit L<http://qa.perl.org/> and join the excellent perl-qa mailing list. See L<http://lists.perl.org/showlist.cgi?name=perl-qa> for details on how to subscribe.

=head2 perlmonks

You can find users of Test::Class, including the module author, on L<http://www.perlmonks.org/>. Feel free to ask questions on Test::Class there.

=head2 CPAN::Forum

The CPAN Forum is a web forum for discussing Perl's CPAN modules. The Test::Class forum can be found at L<http://www.cpanforum.com/dist/Test-Class>.

=head1 TO DO

If you think this module should do something that it doesn't (or does something that it shouldn't) please let me know.

You can see my current to do list at L<http://adrianh.tadalist.com/lists/public/4798>, with an RSS feed of changes at
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=head1 AUTHORS

Adrian Howard <adrianh@quietstars.com>, Curtis "Ovid" Poe, <ovid at cpan.org>, Mark Morgan <makk384@gmail.com>.

If you use this module, and can spare the time please let us know or rate it at L<http://cpanratings.perl.org/rate/?distribution=Test-Class>.

=head1 SEE ALSO

=over 4

=item L<Test::Class::Load>

Simple way to load "Test::Class" classes automatically.

=item L<http://del.icio.us/tag/Test::Class>

Delicious links on Test::Class.

=item Perl Testing: A Developer's Notebook by Ian Langworth and chromatic

Chapter 8 covers using Test::Class.
Chapter 8 has a few pages on using Test::Class.

The Perl Journal, April 2003

Includes the article "Test-Driven Development in Perl" by Piers Cawley that uses Test::Class.

Support module for building test libraries.

Basic utilities for writing tests.

Overview of some of the many testing modules available on CPAN.

Delicious links on perl testing.

Another approach to object oriented testing.

Alternatives to grouping sets of tests together.

The following modules use Test::Class as part of their test suite. You might want to look at them for usage examples:

Aspect, Bricolage (http://www.bricolage.cc/), Class::StorageFactory, CGI::Application::Search, DBIx::Romani, XML::Doom, Object::Relational, File::Random, Geography::JapanesePrefectures, Google::Adwords, Merge::HashRef, PerlBuildSystem, Pixie, Yahoo::Marketing, and XUL-Node

The following modules are not based on Test::Builder, but may be of interest as alternatives to Test::Class.
Perl unit testing framework closely modeled on JUnit.

A very simple unit testing framework.

NAME
Test::Class - Easily create test classes in an xUnit/JUnit style

SYNOPSIS
package Example::Test;
use base qw(Test::Class);
use Test::More;

# setup methods are run before every test method.
sub make_fixture : Test(setup) {
    my $array = [1, 2];
    shift->{test_array} = $array;
}

# a test method that runs 1 test
sub test_push : Test {
    my $array = shift->{test_array};
    push @$array, 3;
    is_deeply($array, [1, 2, 3], 'push worked');
}

# a test method that runs 4 tests
sub test_pop : Test(4) {
    my $array = shift->{test_array};
    shift->test_array = shift->[test_array];
    shift->setup;
    is_deeply($array, [1, 2, 3], 'push worked');
}
is(pop @$array, 2, 'pop = 2');
is(pop @$array, 1, 'pop = 1');
is_deeply($array, [], 'array empty');
is(pop @$array, undef, 'pop = undef');
};

# teardown methods are run after every test method.
sub teardown : Test(teardown) {
    my $array = shift->{test_array};
    diag("array = (@$array) after test(s)");
};

later in a nearby .t file

#!/usr/bin/perl
use Example::Test;

# run all the test methods in Example::Test
Test::Class->runtests;

Outputs:

1..5
ok 1 - pop = 2
ok 2 - pop = 1
ok 3 - array empty
ok 4 - pop = undef
# array = () after test(s)
ok 5 - push worked
# array = (1 2 3) after test(s)

DESCRIPTION
Test::Class provides a simple way of creating classes and objects to
test your code in an xUnit style.

Built using Test::Builder, it was designed to work with other
Test::Builder based modules (Test::More, Test::Differences,
Test::Exception, etc.).

*Note:* This module will make more sense, if you are already familiar
with the "standard" mechanisms for testing perl code. Those unfamiliar
with Test::Harness, Test::Simple, Test::More and friends should go take
a look at them now. Test::Tutorial is a good starting point.

INTRODUCTION
A brief history lesson
In 1994 Kent Beck wrote a testing framework for Smalltalk called SUnit.
It was popular. You can read a copy of his original paper at

Later Kent Beck and Erich Gamma created JUnit for testing Java http://www.junit.org/. It was popular too.

Now there are xUnit frameworks for every language from Ada to XSLT. You can find a list at http://www.xprogramming.com/software.htm.

While xUnit frameworks are traditionally associated with unit testing they are also useful in the creation of functional/acceptance tests.

Test::Class is (yet another) implementation of xUnit style testing in Perl.

Why you should use Test::Class
Test::Class attempts to provide simple xUnit testing that integrates simply with the standard perl *.t style of testing. In particular:

* All the advantages of xUnit testing. You can easily create test fixtures and isolate tests. It provides a framework that should be familiar to people who have used other xUnit style test systems.

* It is built with Test::Builder and should co-exist happily with all other Test::Builder based modules. This makes using test classes in *.t scripts, and refactoring normal tests into test classes, much simpler because:

* You do not have to learn a new set of new test APIs and can continue using ok(), like(), etc. from Test::More and friends.

* Skipping tests and todo tests are supported.

* You can have normal tests and Test::Class classes co-existing in the same *.t script. You don't have to re-write an entire script, but can use test classes as and when it proves useful.

* You can easily package your tests as classes/modules, rather than *.t scripts. This simplifies reuse, documentation and distribution, encourages refactoring, and allows tests to be extended by inheritance.

* You can have multiple setup/teardown methods. For example have one teardown method to clean up resources and another to check that class invariants still hold.

* It can make running tests faster. Once you have refactored your *.t scripts into classes they can be easily run from a single script. This gains you the (often considerable) start up time that each
Why you should *not* use Test::Class
* If your *.t* scripts are working fine then don't bother with Test::Class. For simple test suites it is almost certainly overkill. Don't start thinking about using Test::Class until issues like duplicate code in your test scripts start to annoy.

* If you are distributing your code it is yet another module that the user has to have to run your tests (unless you distribute it with your test suite of course).

* If you are used to the_TestCase/Suite/Runner class structure used by JUnit and similar testing frameworks you may find Test::Unit more familiar (but try reading "HELP FOR CONFUSED JUNIT USERS" before you give up).

**TEST CLASSES**
A test class is just a class that inherits from Test::Class. Defining a test class is as simple as doing:

```perl
package Example::Test;
use base qw(Test::Class);
use Test::More;

sub subtraction : Test {
    is( 2-1, 1, 'subtraction works' );
}
```

Since Test::Class does not provide its own test functions, but uses those provided by Test::More and friends, you will nearly always also want to have:

```perl
use Test::More;
```

to import the test functions into your test class.

**METHOD TYPES**
There are three different types of method you can define using Test::Class.

1) Test methods
You define test methods using the Test attribute. For example:

```perl
package Example::Test;
use base qw(Test::Class);
use Test::More;

sub subtraction : Test {
    is( 2-1, 1, 'subtraction works' );
}
```

This declares the `subtraction` method as a test method that runs one
If your test method runs more than one test, you should put the number of tests in brackets like this:

```
sub addition : Test(2) {
    is(10 + 20, 30, 'addition works');
    is(20 + 10, 30, 'both ways');
}
```

If you don't know the number of tests at compile time you can use `no_plan` like this.

```
sub check_class : Test(no_plan) {
    my $objects = shift->objects;
    isa_ok($_, 'Object') foreach @$objects;
}
```

or use the :Tests attribute, which acts just like ':Test' but defaults to `no_plan` if no number is given:

```
sub check_class : Tests {
    my $objects = shift->objects;
    isa_ok($_, 'Object') foreach @$objects;
}
```

2) Setup and teardown methods

Setup and teardown methods are run before and after every test. For example:

```
sub before : Test(setup)    { diag("running before test") };
sub after  : Test(teardown) { diag("running after test") };
```

You can use setup and teardown methods to create common objects used by all of your test methods (a test *fixture*) and store them in your Test::Class object, treating it as a hash. For example:

```
sub pig : Test(setup) {
    my $self = shift;
    $self->{test_pig} = Pig->new;
}

sub born_hungry : Test {
    my $pig = shift->{test_pig};
    is($pig->hungry, 'pigs are born hungry');
}

sub eats : Test(3) {
```
my $pig = shift->{test_pig};
ok( $pig->feed, 'pig fed okay');
ok(! $pig->hungry, 'fed pig not hungry');
ok(! $pig->feed, 'cannot feed full pig');
};

You can also declare setup and teardown methods as running tests. For example you could check that the test pig survives each test method by doing:

sub pig_alive : Test(teardown => 1) {
    my $pig = shift->{test_pig};
    ok($pig->alive, 'pig survived tests');
};

3) Startup and shutdown methods
Startup and shutdown methods are like setup and teardown methods for the whole test class. All the startup methods are run once when you start running a test class. All the shutdown methods are run once just before a test class stops running.

You can use these to create and destroy expensive objects that you don't want to have to create and destroy for every test - a database connection for example:

sub db_connect : Test(startup) {
    shift->{dbi} = DBI->connect;
};

sub db_disconnect : Test(shutdown) {
    shift->{dbi}->disconnect;
};

Just like setup and teardown methods you can pass an optional number of tests to startup and shutdown methods. For example:

sub example : Test(startup => 1) {
    ok(1, 'a startup method with one test');
};

If you want to run an unknown number of tests within your startup method, you need to say e.g.

sub example : Test(startup => no_plan) {
    ok(1, q{The first of many tests that don't want to have to count});
    ...
}
as the : Tests attribute behaves exactly like : Test in this context.

If a startup method has a failing test or throws an exception then all other tests for the current test object are ignored.

**RUNNING TESTS**
You run test methods with runtests(). Doing:

```
Test::Class->runtests
```

runs all of the test methods in every loaded test class. This allows you to easily load multiple test classes in a *.t file and run them all.

```#!/usr/bin/perl

# load all the test classes I want to run
use Foo::Test;
use Foo::Bar::Test;
use Foo::Fribble::Test;
use Foo::Ni::Test;

# and run them all
Test::Class->runtests;
```

You can use Test::Class::Load to automatically load all the test classes in a given set of directories.

If you need finer control you can create individual test objects with new(). For example to just run the tests in the test class `Foo::Bar::Test` you can do:

```
Example::Test->new->runtests
```

You can also pass runtests() a list of test objects to run. For example:

```my $o1 = Example::Test->new;
my $o2 = Another::Test->new;
# runs all the tests in $o1 and $o2
{o1}->runtests($o2);
```

Since, by definition, the base Test::Class has no tests you could also have written:

```my $o1 = Example::Test->new;
my $o2 = Another::Test->new;
Test::Class->runtests($o1, $o2);
```

If you pass runtests() class names it will automatically create test
objects for you, so the above can be written more compactly as:

    Test::Class->runtests(qw( Example::Test Another::Test ))

In all of the above examples runtests() will look at the number of tests both test classes run and output an appropriate test header for Test::Harness automatically.

What happens if you run test classes and normal tests in the same script? For example:

    Test::Class->runtests;
    ok(Example->new->foo, 'a test not in the test class');
    ok(Example->new->bar, 'ditto');

Test::Harness will complain that it saw more tests than it expected since the test header output by runtests() will not include the two normal tests.

To overcome this problem you can pass an integer value to runtests(). This is added to the total number of tests in the test header. So the problematic example can be rewritten as follows:

    Test::Class->runtests(+2);
    ok(Example->new->foo, 'a test not in the test class');
    ok(Example->new->bar, 'ditto');

If you prefer to write your test plan explicitly you can use expected_tests() to find out the number of tests a class/object is expected to run.

Since runtests() will not output a test plan if one has already been set the previous example can be written as:

    plan tests => Test::Class->expected_tests(+2);
    Test::Class->runtests;
    ok(Example->new->foo, 'a test not in the test class');
    ok(Example->new->bar, 'ditto');

*Remember:* Test objects are just normal perl objects. Test classes are just normal perl classes. Setup, test and teardown methods are just normal methods. You are completely free to have other methods in your class that are called from your test methods, or have object specific `new' and `DESTROY' methods.

In particular you can override the new() method to pass parameters to your test object, or re-define the number of tests a method will run. See num_method_tests() for an example.
TEST DESCRIPTIONS
The test functions you import from Test::More and other Test::Builder based modules usually take an optional third argument that specifies the test description, for example:

    is $something, $something_else, 'a description of my test';

If you do not supply a test description, and the test function does not supply its own default, then Test::Class will use the name of the currently running test method, replacing all "_" characters with spaces so:

    sub one_plus_one_is_two : Test {
        is 1+1, 2;
    }

will result in:

    ok 1 - one plus one is two

RUNNING ORDER OF METHODS
Methods of each type are run in the following order:

1. All of the startup methods in alphabetical order
2. For each test method, in alphabetical order:
   * All of the setup methods in alphabetical order
   * The test method.
   * All of the teardown methods in alphabetical order
3. All of the shutdown methods in alphabetical order.

Most of the time you should not care what order tests are run in, but it can occasionally be useful to force some test methods to be run early. For example:

    sub _check_new {
        my $self = shift;
        isa_ok(Object->new, "Object") or $self->BAILOUT('new fails!');
    }

The leading `_` will force the above method to run first - allowing the entire suite to be aborted before any other test methods run.
HANDLING EXCEPTIONS
If a startup, setup, test, teardown or shutdown method dies then runtests() will catch the exception and fail any remaining test. For example:

```
sub test_object : Test(2) {
    my $object = Object->new;
    isa_ok( $object, "Object" ) or die "could not create object\n";
    ok( $object->open, "open worked" );
};
```

will produce the following if the first test failed:

```
not ok 1 - The object isa Object
# Failed test 'The object isa Object'
# at /Users/adrianh/Desktop/foo.pl line 14.
# (in MyTest->test_object)
# The object isn't defined
not ok 2 - test_object died (could not create object)
# Failed test 'test_object died (could not create object)'
# at /Users/adrianh/Desktop/foo.pl line 19.
# (in MyTest->test_object)
```

This can considerably simplify testing code that throws exceptions.

Rather than having to explicitly check that the code exited normally (e.g. with Test::Exception) the test will fail automatically - without aborting the other test methods. For example contrast:

```
use Test::Exception;

my $file;
lives_ok { $file = read_file('test.txt') } 'file read';
is($file, "content", 'test file read');
```

with:

```
sub read_file : Test {
    is(read_file('test.txt'), "content", 'test file read');
};
```

If more than one test remains after an exception then the first one is failed, and the remaining ones are skipped.

If the setup method of a test method dies, then all of the remaining setup and shutdown methods are also skipped.

Since startup methods will usually be creating state needed by all the
other test methods an exception within a startup method will prevent all other test methods of that class running.

RETURNING EARLY
If a test method returns before it has run all of its tests, by default the missing tests are deemed to have been skipped; see "Skipped Tests" for more information.

However, if the class's `fail_if_returned_early' method returns true, then the missing tests will be deemed to have failed. For example,

    package MyClass;
    use base 'Test::Class';
    sub fail_if_returned_early { 1 }

    sub oops : Tests(8) {
        for (my $n=1; $n*$n<50; ++$n) {
            ok 1, "$n squared is less than fifty";
        }
    }

SKIPPED TESTS
You can skip the rest of the tests in a method by returning from the method before all the test have finished running (but see "Returning Early" for how to change this). The value returned is used as the reason for the tests being skipped.

This makes managing tests that can be skipped for multiple reasons very simple. For example:

    sub flying_pigs : Test(5) {
        my $pig = Pig->new;
        isa_ok($pig, 'Pig')      or return("cannot breed pigs")
        can_ok($pig, 'takeoff') or return("pigs don't fly here");
        ok($pig->takeoff, 'takeoff') or return("takeoff failed");
        ok( $pig->altitude > 0, 'Pig is airborne' );
        ok( $pig->airspeed > 0, ' and moving' );
    }

If you run this test in an environment where `Pig->new' worked and the takeoff method existed, but failed when ran, you would get:

    ok 1 - The object isa Pig
    ok 2 - can takeoff
    not ok 3 - takeoff
    ok 4 # skip takeoff failed
    ok 5 # skip takeoff failed
You can also skip tests just as you do in Test::More or Test::Builder - see Test::More for more information.

*Note:* if you want to skip tests in a method with `no_plan` tests then you have to explicitly skip the tests in the method - since Test::Class cannot determine how many tests (if any) should be skipped:

```perl
sub test_objects : Tests {
  my $self = shift;
  my $objects = $self->{objects};
  if (@$objects) {
    isa_ok($_, "Object") foreach (@$objects);
  } else {
    $self->builder->skip("no objects to test");
  }
}
```

Another way of overcoming this problem is to explicitly set the number of tests for the method at run time using num_method_tests() or "num_tests".

You can make a test class skip all of its tests by setting SKIP_CLASS() before runtests() is called.

TO DO TESTS
You can create todo tests just as you do in Test::More and Test::Builder using the `$TODO` variable. For example:

```perl
sub live_test : Test {
  local $TODO = "live currently unimplemented";
  ok(Object->live, "object live");
}
```

See Test::Harness for more information.

EXTENDING TEST CLASSES BY INHERITANCE
You can extend test methods by inheritance in the usual way. For example consider the following test class for a 'Pig' object.

```perl
package Pig::Test;
use base qw(Test::Class);
use Test::More;

sub testing_class { "Pig" };
sub new_args { (-age => 3) };

sub setup : Test(setup) {
  my $self = shift;
```
my $class = $self->testing_class;
my @args = $self->new_args;
$self->{pig} = $class->new( @args );
}

sub _creation : Test {
    my $self = shift;
    isa_ok($self->{pig}, $self->testing_class)
or $self->FAIL_ALL('Pig->new failed');
}

sub check_fields : Test {
    my $pig = shift->{pig};
is($pig->age, 3, "age accessed");
}

Next consider `NamedPig' a subclass of `Pig' where you can give your pig a name.

We want to make sure that all the tests for the `Pig' object still work for `NamedPig'. We can do this by subclassing `Pig::Test' and overriding the `testing_class' and `new_args' methods.

package NamedPig::Test;
use base qw(Pig::Test);
use Test::More;

sub testing_class { "NamedPig" ;
sub new_args { (shift->SUPER::new_args, -name => 'Porky') };

Now we need to test the name method. We could write another test method, but we also have the option of extending the existing `check_fields' method.

sub check_fields : Test(2) {
    my $self = shift;
    $self->SUPER::check_fields;
    is($self->{pig}->name, 'Porky', 'name accessed');
}

While the above works, the total number of tests for the method is dependent on the number of tests in its `SUPER::check_fields'. If we add a test to `Pig::Test->check_fields' we will also have to update the number of tests of `NamedPig::test->check_fields'.

Test::Class allows us to state explicitly that we are adding tests to an existing method by using the `+' prefix. Since we are adding a single test to `check_fields' it can be rewritten as:
sub check_fields : Test(+1) {
    my $self = shift;
    $self->SUPER::check_fields;
    is($self->{pig}->name, 'Porky', 'name accessed');
};

With the above definition you can add tests to `check_fields' in `Pig::Test' without affecting `NamedPig::Test'.

**RUNNING INDIVIDUAL TESTS**
NOTE: The exact mechanism for running individual tests is likely to change in the future.

Sometimes you just want to run a single test. Commenting out other tests or writing code to skip them can be a hassle, so you can specify the `TEST_METHOD' environment variable. The value is expected to be a valid regular expression and, if present, only runs test methods whose names match the regular expression. Startup, setup, teardown and shutdown tests will still be run.

One easy way of doing this is by specifying the environment variable *before* the `runtests' method is called.

Running a test named `customer_profile':

```perl
#!/usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = 'customer_profile';
Test::Class->runtests;
```

Running all tests with `customer' in their name:

```perl
#!/usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = '.*customer.*';
Test::Class->runtests;
```

If you specify an invalid regular expression, your tests will not be run:

```perl
#!/usr/bin/perl
use Example::Test;

$ENV{TEST_METHOD} = 'C++';
Test::Class->runtests;
```
And when you run it:

TEST_METHOD (C++) is not a valid regular expression: Search pattern \ not terminated at (eval 17) line 1.

ORGANISING YOUR TEST CLASSES
You can, of course, organise your test modules as you wish. My personal preferences is:

* Name test classes with a suffix of `::Test' so the test class for the `Foo::Bar' module would be `Foo::Bar::Test'.

* Place all test classes in t/lib.

The Test::Class::Load provides a simple mechanism for easily loading all of the test classes in a given set of directories.

A NOTE ON LOADING TEST CLASSES
Due to its use of subroutine attributes Test::Class based modules must be loaded at compile rather than run time. This is because the :Test attribute is applied by a CHECK block.

This can be problematic if you want to dynamically load Test::Class modules. Basically while:

    require $some_test_class;

will break, doing:

    BEGIN { require $some_test_class };  

will work just fine. For more information on CHECK blocks see perlmod.

If you still can't arrange for your classes to be loaded at runtime, you could use an alternative mechanism for adding your tests:

    # sub test_something : Test(3) {...}  
    # becomes  
    sub test_something { ...}  
    __PACKAGE__->add_testinfo('test_something', test => 3);

See the add_testinfo method for more details.

GENERAL FILTERING OF TESTS
The use of $ENV{'TEST_METHOD'} to run just a subset of tests is useful, but sometimes it doesn't give the level of granularity that you desire. Another feature of this class is the ability to do filtering on other
static criteria. In order to permit this, a generic filtering method is supported. This can be used by specifying coderefs to the 'add_filter' method of this class.

In determining which tests should be run, all filters that have previously been specified via the add_filter method will be run in-turn for each normal test method. If any of these filters return a false value, the method will not be executed, or included in the number of tests. Note that filters will only be run for normal test methods, they are ignored for startup, shutdown, setup, and teardown test methods.

Note that test filters are global, and will affect all tests in all classes, not just the one that they were defined in.

An example of this mechanism that mostly simulates the use of TEST_METHOD above is:

```perl
package MyTests;

use Test::More;

use base qw( Test::Class );

my $MYTEST_METHOD = qr/^t_not_filtered$/;

my $filter = sub {
    my ( $test_class, $test_method ) = @_;

    return $test_method =~ $MYTEST_METHOD;
};
Test::Class->add_filter( $filter );

sub t_filtered : Test( 1 ) {
    fail( "filtered test run" );
}

sub t_not_filtered : Test( 1 ) {
    pass( "unfiltered test run" );
}
```

METHODS

Creating and running tests

Test

# test methods
sub method_name : Test { ... };
sub method_name : Test(N) { ... };

# setup methods
sub method_name : Test(setup) { ... }
sub method_name : Test(setup => N) { ... }

# teardown methods
sub method_name : Test(teardown) { ... }
sub method_name : Test(teardown => N) { ... }

# startup methods
sub method_name : Test(startup) { ... }
sub method_name : Test(startup => N) { ... }

# shutdown methods
sub method_name : Test(shutdown) { ... }
sub method_name : Test(shutdown => N) { ... }

Marks a startup, setup, test, teardown or shutdown method. See runtests() for information on how to run methods declared with the `Test' attribute.

N specifies the number of tests the method runs.

* If N is an integer then the method should run exactly N tests.

* If N is an integer with a `+' prefix then the method is expected to call its `SUPER::' method and extend it by running N additional tests.

* If N is the string `no_plan' then the method can run an arbitrary number of tests.

If N is not specified it defaults to `1' for test methods, and `0' for startup, setup, teardown and shutdown methods.

You can change the number of tests that a method runs using num_method_tests() or num_tests().

Tests
sub method_name : Tests { ... }
sub method_name : Tests(N) { ... }

Acts just like the `:Test' attribute, except that if the number of tests is not specified it defaults to `no_plan'. So the following are equivalent:

sub silly1 :Test( no_plan ) { ok(1) foreach (1 .. rand 5) }
sub silly2 :Tests { ok(1) foreach (1 .. rand 5) }

new
$Tests = CLASS->new(KEY => VAL ...)
$Tests2 = $Tests->new(KEY => VAL ...)

Creates a new test object (blessed hashref) containing the specified key/value pairs.

If called as an object method the existing object's key/value pairs are copied into the new object. Any key/value pairs passed to `new' override those in the original object if duplicates occur.

Since the test object is passed to every test method as it runs it is a convenient place to store test fixtures. For example:

sub make_fixture : Test(setup) {
    my $self = shift;
    $self->{object} = Object->new();
    $self->{dbh} = Mock::DBI->new(-type => normal);
}

sub test_open : Test {
    my $self = shift;
    my ($o, $dbh) = ($self->{object}, $self->{dbh});
    ok($o->open($dbh), "opened ok");
}

See num_method_tests() for an example of overriding `new'.

expected_tests
$e = $Tests->expected_tests
$e = CLASS->expected_tests
$e = $Tests->expected_tests(TEST, ...)
$e = CLASS->expected_tests(TEST, ...)

Returns the total number of tests that runtests() will run on the specified class/object. This includes tests run by any setup and teardown methods.

Will return `no_plan' if the exact number of tests is undetermined (i.e. if any setup, test or teardown method has an undetermined number of tests).

The `expected_tests' of an object after runtests() has been executed will include any run time changes to the expected number of tests made by num_tests() or num_method_tests().

`expected_tests' can also take an optional list of test objects, test classes and integers. In this case the result is the total number of expected tests for all the test/object classes (including
the one the method was applied to) plus any integer values.

`expected_tests' is useful when you're integrating one or more test classes into a more traditional test script, for example:

```perl
use Test::More;
use My::Test::Class;

plan tests => My::Test::Class->expected_tests(+2);

ok(whatever, 'a test');
ok(whatever, 'another test');
My::Test::Class->runtests;
```

`runtests' is used to run test classes. At its most basic doing:

```perl
$test->runtests
```

will run the test methods of the test object $test, unless
`$test->SKIP_CLASS' returns a true value.

Unless you have already specified a test plan using Test::Builder (or Test::More, et al) `runtests' will set the test plan just before the first method that runs a test is executed.

If the environment variable `TEST_VERBOSE' is set `runtests' will display the name of each test method before it runs like this:

```
# My::Test::Class->my_test
ok 1 - fribble
# My::Test::Class->another_test
ok 2 - bar
```

Just like expected_tests(), `runtests' can take an optional list of test object/classes and integers. All of the test object/classes are run. Any integers are added to the total number of tests shown in the test header output by `runtests'.

For example, you can run all the tests in test classes A, B and C, plus one additional normal test by doing:

```perl
Test::Class->runtests(qw(A B C), +1);
```
ok(1==1, 'non class test');

Finally, if you call `runtests' on a test class without any arguments it will run all of the test methods of that class, and all subclasses of that class. For example:

``` perl
#!/usr/bin/perl
# Test all the Foo stuff
use Foo::Test;
use Foo::Bar::Test;
use Foo::Ni::Test;

# run all the Foo*Test modules we just loaded
Test::Class->runtests;
```

**SKIP_CLASS**

``` perl
$reason = CLASS->SKIP_CLASS;
CLASS->SKIP_CLASS( $reason );
```

Determines whether the test class CLASS should run it's tests. If SKIP_CLASS returns a true value then runtests() will not run any of the test methods in CLASS.

You can override the default on a class-by-class basis by supplying a new value to SKIP_CLASS. For example if you have an abstract base class that should not run just add the following to your module:

``` perl
My::Abstract::Test->SKIP_CLASS( 1 );
```

This will not affect any sub-classes of `My::Abstract::Test' which will run as normal.

If the true value returned by SKIP_CLASS is anything other than "1" then a skip test is output using this value as the skip message. For example:

``` perl
My::Postgres::Test->SKIP_CLASS( 0 :
      $ENV{POSTGRES_HOME} ? 0 : '$POSTGRES_HOME needs to be set' );
```

will output something like this if `POSTGRES_HOME' is not set

``` perl
... other tests ...
ok 123 # skip My::Postgres::Test - $POSTGRES_HOME needs to be set
... more tests ...
```

You can also override SKIP_CLASS for a class hierarchy. For example,
to prevent any subclasses of My::Postgres::Test running we could override SKIP_CLASS like this:

```
sub My::Postgres::Test::SKIP_CLASS {
    $ENV{POSTGRES_HOME} ? 0 : '$POSTGRES_HOME needs to be set'
};
```

Fetching and setting a method's test number

```
num_method_tests
$n = $Tests->num_method_tests($method_name)
$Tests->num_method_tests($method_name, $n)
$n = CLASS->num_method_tests($method_name)
CLASS->num_method_tests($method_name, $n)
```

Fetch or set the number of tests that the named method is expected to run.

If the method has an undetermined number of tests then $n should be the string `no_plan'.

If the method is extending the number of tests run by the method in a superclass then $n should have a `+' prefix.

When called as a class method any change to the expected number of tests applies to all future test objects. Existing test objects are unaffected.

When called as an object method any change to the expected number of tests applies to that object alone.

`num_method_tests' is useful when you need to set the expected number of tests at object creation time, rather than at compile time.

For example, the following test class will run a different number of tests depending on the number of objects supplied.

```
package Object::Test;
use base qw(Test::Class);
use Test::More;

sub new {
    my $class = shift;
    my $self = $class->SUPER::new(@_);
    my $num_objects = @{$self->{objects}};
    $self->num_method_tests('test_objects', $num_objects);
    return($self);
};
```
sub test_objects : Tests {
    my $self = shift;
    ok($_->open, "$opened $_") foreach @{$self->{objects}};
    ...
    # This runs two tests
    Object::Test->new(objects => [$o1, $o2]);

    The advantage of setting the number of tests at object creation
    time, rather than using a test method without a plan, is that the
    number of expected tests can be determined before testing begins.
    This allows better diagnostics from runtests(), Test::Builder and
    Test::Harness.

    `num_method_tests' is a protected method and can only be called by
    subclasses of Test::Class. It fetches or sets the expected number of
    tests for the methods of the class it was *called in*, not the
    methods of the object/class it was *applied to*. This allows test
    classes that use `num_method_tests' to be subclassed easily.

    For example, consider the creation of a subclass of Object::Test
    that ensures that all the opened objects are read-only:

    package Special::Object::Test;
    use base qw(Object::Test);
    use Test::More;

    sub test_objects : Test(+1) {
        my $self = shift;
        $self->SUPER::test_objects;
        my @bad_objects = grep {! $_->read_only} (@{$self->{objects}});
        ok(@bad_objects == 0, "all objects read only");
    }
    ...
    # This runs three tests
    Special::Object::Test->new(objects => [$o1, $o2]);

    Since the call to `num_method_tests' in Object::Test only affects
    the `test_objects' of Object::Test, the above works as you would
    expect.

    num_tests
    $n = $Tests->num_tests
    $Tests->num_tests($n)
    $n = CLASS->num_tests
    CLASS->num_tests($n)
Set or return the number of expected tests associated with the currently running test method. This is the same as calling num_method_tests() with a method name of current_method().

For example:

```
sub txt_files_readable : Tests {
    my $self = shift;
    my @files = <*.txt>;
    $self->num_tests(scalar(@files));
    ok(-r $_, "$_ readable") foreach (@files);
};
```

Setting the number of expected tests at run time, rather than just having a `no_plan' test method, allows runtests() to display appropriate diagnostic messages if the method runs a different number of tests.

Support methods

**builder**

$Tests->builder

Returns the underlying Test::Builder object that Test::Class uses.

For example:

```
sub test_close : Test {
    my $self = shift;
    my ($o, $dbh) = ($self->{object}, $self->{dbh});
    $self->builder->ok($o->close($dbh), "closed ok");
};
```

**current_method**

$method_name = $Tests->current_method
$method_name = CLASS->current_method

Returns the name of the test method currently being executed by runtests(), or `undef' if runtests() has not been called.

The method name is also available in the setup and teardown methods that run before and after the test method. This can be useful in producing diagnostic messages, for example:

```
sub test_invariant : Test(teardown => 1) {
    my $self = shift;
    my $m = $self->current_method;
    ok($self->invariant_ok, "class okay after $m");
};
```
BAILOUT

$Tests->BAILOUT($reason)
CLASS->BAILOUT($reason)

Things are going so badly all testing should terminate, including running any additional test scripts invoked by Test::Harness. This is exactly the same as doing:

$self->builder->BAILOUT

See Test::Builder for details. Any teardown and shutdown methods are *not* run.

FAIL_ALL

$Tests->FAIL_ALL($reason)
CLASS->FAIL_ALL($reason)

Things are going so badly all the remaining tests in the current script should fail. Exits immediately with the number of tests failed, or `254' if more than 254 tests were run. Any teardown methods are *not* run.

This does not affect the running of any other test scripts invoked by Test::Harness.

For example, if all your tests rely on the ability to create objects then you might want something like this as an early test:

sub _test_new : Test(3) {
    my $self = shift;
    isa_ok(Object->new, "Object") || $self->FAIL_ALL('cannot create Objects');
    ...
};

SKIP_ALL

$Tests->SKIP_ALL($reason)
CLASS->SKIP_ALL($reason)

Things are going so badly all the remaining tests in the current script should be skipped. Exits immediately with `0' - teardown methods are *not* run.

This does not affect the running of any other test scripts invoked by Test::Harness.

For example, if you had a test script that only applied to the darwin OS you could write:
sub _darwin_only : Test(setup) {
    my $self = shift;
    $self->SKIP_ALL("darwin only") unless $^O eq "darwin";
};

add_testinfo
    CLASS->add_testinfo($name, $type, $num_tests)

Chiefly for use by libraries like Test::Class::Sugar, which can't use the `:Test(...)' interfaces make test methods. `add_testinfo' informs the class about a test method that has been defined without a `Test', `Tests' or other attribute.

`$name' is the name of the method, `$type' must be one of `startup', `setup', `test', `teardown' or `shutdown', and `$num_tests' has the same meaning as `$N' in the description of the Test attribute.

add_filter
    CLASS->add_filter($filter_coderef);

Adds a filtering coderef. Each filter is passed a test class and method name and returns a boolean. All filters are applied globally in the order they were added. If any filter returns false the test method is not run or included in the number of tests.

Note that filters will only be run for normal test methods, they are ignored for startup, shutdown, setup, and teardown test methods.

See the section on the "GENERAL FILTERING OF TESTS" for more information.

fail_if_returned_early
    Controls what happens if a method returns before it has run all of its tests. It is called with no arguments in boolean context; if it returns true, then the missing tests fail, otherwise, they skip. See "Returning Early" and "Skipped Tests".

HELP FOR CONFUSED JUNIT USERS
This section is for people who have used JUnit (or similar) and are confused because they don't see the TestCase/Suite/Runner class framework they were expecting. Here we take each of the major classes in JUnit and compare them with their equivalent Perl testing modules.

Class Assert
The test assertions provided by Assert correspond to the test functions provided by the Test::Builder based modules (Test::More, Test::Exception, Test::Differences, etc.)
Unlike JUnit the test functions supplied by Test::More et al do *not* throw exceptions on failure. They just report the failure to STDOUT where it is collected by Test::Harness. This means that where you have

```perl
sub foo : Test(2) {
    ok($foo->method1);
    ok($foo->method2);
};
```

The second test *will* run if the first one fails. You can emulate the JUnit way of doing it by throwing an explicit exception on test failure:

```perl
sub foo : Test(2) {
    ok($foo->method1) or die "method1 failed";
    ok($foo->method2);
};
```

The exception will be caught by Test::Class and the other test automatically failed.

**Class TestCase**

Test::Class corresponds to TestCase in JUnit.

In Test::Class setup, test and teardown methods are marked explicitly using the Test attribute. Since we need to know the total number of tests to provide a test plan for Test::Harness we also state how many tests each method runs.

Unlike JUnit you can have multiple setup/teardown methods in a class.

**Class TestSuite**

Test::Class also does the work that would be done by TestSuite in JUnit.

Since the methods are marked with attributes Test::Class knows what is and isn't a test method. This allows it to run all the test methods without having the developer create a suite manually, or use reflection to dynamically determine the test methods by name. See the runtests() method for more details.

The running order of the test methods is fixed in Test::Class. Methods are executed in alphabetical order.

Unlike JUnit, Test::Class currently does not allow you to run
individual test methods.

Class TestRunner

Test::Harness does the work of the TestRunner in JUnit. It collects the test results (sent to STDOUT) and collates the results.

Unlike JUnit there is no distinction made by Test::Harness between errors and failures. However, it does support skipped and todo test - which JUnit does not.

If you want to write your own test runners you should look at Test::Harness::Straps.

OTHER MODULES FOR XUNIT TESTING IN PERL

In addition to Test::Class there are two other distributions for xUnit testing in perl. Both have a longer history than Test::Class and might be more suitable for your needs.

I am biased since I wrote Test::Class - so please read the following with appropriate levels of scepticism. If you think I have misrepresented the modules please let me know.

Test::SimpleUnit

A very simple unit testing framework. If you are looking for a lightweight single module solution this might be for you.

The advantage of Test::SimpleUnit is that it is simple! Just one module with a smallish API to learn.

Of course this is also the disadvantage.

It's not class based so you cannot create testing classes to reuse and extend.

It doesn't use Test::Builder so it's difficult to extend or integrate with other testing modules. If you are already familiar with Test::Builder, Test::More and friends you will have to learn a new test assertion API. It does not support todo tests.

Test::Unit

Test::Unit is a port of JUnit http://www.junit.org/ into perl. If you have used JUnit then the Test::Unit framework should be very familiar.

It is class based so you can easily reuse your test classes and extend by subclassing. You get a nice flexible framework you can tweak to your heart's content. If you can run Tk you also get a graphical test runner.
However, Test::Unit is not based on Test::Builder. You cannot easily move Test::Builder based test functions into Test::Unit based classes. You have to learn another test assertion API.

Test::Unit implements it's own testing framework separate from Test::Harness. You can retrofit *.t scripts as unit tests, and output test results in the format that Test::Harness expects, but things like todo tests and skipping tests are not supported.

BUGS
None known at the time of writing.

If you find any bugs please let me know by e-mail at <adrianh@quietstars.com>, or report the problem with http://rt.cpan.org/NoAuth/Bugs.html?Dist=Test-Class.

COMMUNITY
perl-qa
If you are interested in testing using Perl I recommend you visit http://qa.perl.org/ and join the excellent perl-qa mailing list. See http://lists.perl.org/showlist.cgi?name=perl-qa for details on how to subscribe.

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You can find users of Test::Class, including the module author, on http://www.perlmonks.org/. Feel free to ask questions on Test::Class there.

CPAN::Forum
The CPAN Forum is a web forum for discussing Perl's CPAN modules. The Test::Class forum can be found at http://www.cpanforum.com/dist/Test-Class.

TO DO
If you think this module should do something that it doesn't (or does something that it shouldn't) please let me know.


ACKNOWLEDGMENTS
This is yet another implementation of the ideas from Kent Beck's Testing Framework paper http://www.xprogramming.com/testfram.htm.

Thanks to Adam Kennedy, agianni, Alexander D'Archangel, Andrew Grangaard, Apocalypse, Ask Bjorn Hansen, Chris Dolan, Chris Williams,
This module wouldn't be possible without the excellent Test::Builder. Thanks to chromatic and Michael G Schwern for creating such a useful module.

AUTHORS
Adrian Howard <adrianh@quietstars.com>, Curtis "Ovid" Poe, <ovid at cpan.org>, Mark Morgan <makk384@gmail.com>.

If you use this module, and can spare the time please let us know or rate it at http://cpanratings.perl.org/rate/?distribution=Test-Class.

SEE ALSO
Test::Class::Load
   Simple way to load "Test::Class" classes automatically.

http://del.icio.us/tag/Test::Class
   Delicious links on Test::Class.

Perl Testing: A Developer's Notebook by Ian Langworth and chromatic
   Chapter 8 covers using Test::Class.

Advanced Perl Programming, second edition by Simon Cozens
   Chapter 8 has a few pages on using Test::Class.

The Perl Journal, April 2003
   Includes the article "Test-Driven Development in Perl" by Piers Cawley that uses Test::Class.

Test::Builder
   Support module for building test libraries.

Test::Simple & Test::More
   Basic utilities for writing tests.

http://qa.perl.org/test-modules.html
Overview of some of the many testing modules available on CPAN.

http://del.icio.us/tag/perl+testing
Delicious links on perl testing.

Test::Object
Another approach to object oriented testing.

Test::Group and Test::Block
Alternatives to grouping sets of tests together.

The following modules use Test::Class as part of their test suite. You might want to look at them for usage examples:

- Aspect, Bricolage (http://www.bricolage.cc/), Class::StorageFactory,
- CGI::Application::Search, DBIx::Romani, Xmldoom, Object::Relational,
- File::Random, Geography::JapanesePrefectures, Google::Adwords,
- Merge::HashRef, PerlBuildSystem, Pixie, Yahoo::Marketing, and
- XUL-Node

The following modules are not based on Test::Builder, but may be of interest as alternatives to Test::Class.

- Test::Unit
  Perl unit testing framework closely modeled on JUnit.

- Test::SimpleUnit
  A very simple unit testing framework.

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Found in path(s):
* /opt/cola/permits/1144946244_1633499474.36/0/libtest-class-perl-0-47-orig-1-tar-gz/Test-Class-0.47/README
No license file was found, but licenses were detected in source scan.

=head1 NAME
Test::Class::Load - Load C<Test::Class> classes automatically.

=head1 VERSION
Version 0.41

=head1 SYNOPSIS
use Test::Class::Load qw(t/tests t/lib);
Test::Class->runtests;

=head1 EXPORT

None.

=head1 DESCRIPTION

C<Test::Class> typically uses a helper script to load the test classes. It often looks something like this:

#!/usr/bin/perl -T

use strict;
use warnings;

use lib 't/tests';

use MyTest::Foo;
use MyTest::Foo::Bar;
use MyTest::Foo::Baz;

Test::Class->runtests;

This causes a problem, though. When you're writing a test class, it's easy to forget to add it to the helper script. Then you run your huge test suite and see that all tests pass, even though you don't notice that it didn't run your new test class. Or you delete a test class and you forget to remove it from the helper script.

C<Test::Class::Load> automatically finds and loads your test classes for you. There is no longer a need to list them individually.

=head1 BASIC USAGE

Using C<Test::Class::Load> is as simple as this:

#!/usr/bin/perl -T

use strict;
use warnings;

use Test::Class::Load 't/tests';

Test::Class->runtests;

That will search through all files in the C<t/tests> directory and automatically load anything which ends in C<.pm>. You should only put test classes in those directories.
If you have test classes in more than one directory, that's OK. Just list all of them in the import list.

use Test::Class::Load qw<
t/customer
t/order
t/inventory>
Test::Class->runtests;

=head1 ADVANCED USAGE

Here's some examples of advanced usage of C<Test::Class::Load>.

=head2 FILTER LOADED CLASSES

You can redefine the filtering criteria, that is, decide what classes are picked up and what others are not. You do this simply by subclassing C<Test::Class::Load> overriding the C<is_test_class()> method. You might want to do this to only load modules which inherit from C<Test::Class>, or anything else for that matter.

=over 4

=item B<is_test_class>

$\text{is\_test\_class} = \text{is\_test\_class}( $file, $directory )

Returns true if C<$file> in C<$directory> should be considered a test class and be loaded by L<Test::Class::Load>. The default filter simply returns true if C<$file> ends with C<.pm>

=back

For example:

use strict;
use warnings;

package My::Loader;
use base qw( Test::Class::Load );

# Overriding this selects what test classes
# are considered by T::C::Load
sub is_test_class {  
  my ( $class, $file, $dir ) = '@_';

  # return unless it's a .pm (the default)
  return unless $class->SUPER::is_test_class( $file, $dir );
}
and only allow .pm files with "Good" in their filename
return $file =~ m{Good};
}

=head2 CUSTOMIZING TEST RUNS

One problem with this style of testing is that you run all of the tests every time you need to test something. If
you want to run only one test class, it's problematic. The easy way to do this is to change your helper script by
deleting the C<runtests> call:

#!/usr/bin/perl -T

use strict;
use warnings;

use Test::Class::Load 't/tests';

Then, just make sure that all of your test classes inherit from your own base class which runs the tests for you. It
might looks something like this:

package My::Test::Class;

use strict;
use warnings;

use base 'Test::Class';

INIT { Test::Class->runtests } # here's the magic!

1;

Then you can run an individual test class by using the C<prove> utility, tell it the directory of the test classes and the
name of the test package you wish to run:

prove -lv -It/tests Some::Test::Class

You can even automate this by binding it to a key in C<vim>:

noremap ,t :!prove -lv -It/tests %<CR>

Then you can just type C<t> ('comma', 'tee') and it will run the tests for your test class or the tests for your test
script (if you're using a traditional C<Test::More> style script).

Of course, you can still run your helper script with C<prove>, C<make test> or C<./Build test> to run all of your
test classes.
If you do that, you'll have to make sure that the C<-I> switches point to your test class directories.

=head1 SECURITY

C<Test::Class::Load> is taint safe. Because we're reading the class names from the directory structure, they're marked as tainted when running under taint mode. We use the following ultra-paranoid bit of code to untaint them. Please file a bug report if this is too restrictive.

```perl
my ($package) = $_package =~ /^([[:word:]]+)(?:[:[:word:]]+)*$/;
```

=head1 AUTHOR

Curtis "Ovid" Poe, C<< <ovid@cpan.org> >>

=head1 BUGS

Please report any bugs or feature requests to C<bug-test-class-load@rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-Class-Load>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

=head1 ACKNOWLEDGMENTS

Thanks to David Wheeler for the idea and Adrian Howard for C<Test::Class>.

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Found in path(s):
* /opt/cola/permits/114496244_1633499474.36/0/libtest-class-perl-0.47-orig-1-tar-gz/Test-Class-0.47/lib/Test/Class/Load.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Easily create test classes in an xUnit/JUnit style'
author: - 'Adrian Howard <adrianh@quietstars.com>, Curtis "Ovid" Poe, <ovid at cpan.org>, Mark Morgan <makk384@gmail.com>.'
build_requires: 
  Fcntl: '0'
  IO::File: '1.09'
  Test: '0'
  Test::Exception: '0.25'
  Test::More: '0.78'
  base: '0'
  overload: '0'
configure_requires:
  Module::Build: '0.4004'
dynamic_config: 1
generated_by: ' Module::Build version 0.421, CPAN::Meta::Converter version 2.142060'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Test-Class
provides:
  Test::Class:
    file: lib/Test/Class.pm
    version: '0.47'
  Test::Class::Load:
    file: lib/Test/Class/Load.pm
    version: '0.47'
  Test::Class::MethodInfo:
    file: lib/Test/Class/MethodInfo.pm
    version: '0.47'
requires:
  Attribute::Handlers: '0.77'
  Carp: '0'
  File::Find: '0'
  File::Spec: '0'
  MRO::Compat: '0.11'
  Storable: '2.04'
  Test::Builder: '0.78'
  Test::Builder::Tester: '1.02'
  Test::Simple: '1.001002'
constant: '0'
perl: '5.008001'
strict: '0'
warnings: '0'
resources:
  license: http://dev.perl.org/licenses/
  repository: http://github.com/adrianh/test-class/
  version: '0.47'

Found in path(s):
  */opt/cola/permits/1144946244_1633499474.36/0/libtest-class-perl-0.47-orig-1-tar-gz/Test-Class-0.47/META.yml

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=head1 NAME

Test::Class::MethodInfo - the info associated with a test method

=head1 SYNOPSIS
# Secret internal class
# not for public use

=head1 DESCRIPTION

Holds info related to particular test methods. Not part of the public API and likely to change or completely disappear. If you need to rely on any of this code let me know and we'll see if we can work something out.

=head1 METHODS

=over 4

=item B<new>

=item B<is_method_type>

=item B<is_num_tests>

=item B<is_type>

=item B<name>

=item B<type>

=item B<num_tests>

=back

=head1 BUGS

None known at the time of writing. Apart from the fact this seems a bit gnarly so I'm likely to tidy it up at some point.

If you find any please let me know by e-mail, or report the problem with L<http://rt.cpan.org/>.

=head1 TO DO

If you think this module should do something that it doesn't (or does something that it shouldn't) please let me know.


=head1 AUTHOR

Adrian Howard <adrianh@quietstars.com>

If you can spare the time, please drop me a line if you find this module useful.
SEE ALSO

What you should be looking at rather than this internal stuff

LICENCE

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Found in path(s):
* /opt/cola/permits/1144946244_1633499474.36/0/libtest-class-perl-0-47-orig-1-tar-gz/Test-Class-0.47/lib/Test/Class/MethodInfo.pm

1.647 solr-langid 8.8.2

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
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\texttt{analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt},
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NAME
  HTTP::Daemon - a simple http server class

SYNOPSIS
  use HTTP::Daemon;
  use HTTP::Status;

  my $d = HTTP::Daemon->new || die;
  print "Please contact me at: <URL: ", $d->url, ">\n";
  while (my $c = $d->accept) {
    while (my $r = $c->get_request) {
      if ($r->method eq 'GET' and $r->uri->path eq '/xyzzy') {
        # remember, this is *not* recommended practice :-)
        $c->send_file_response("/etc/passwd");
      }
      else {
        $c->send_error(RC_FORBIDDEN)
      }
    }
    $c->close;
    undef($c);
  }

DESCRIPTION
  Instances of the `HTTP::Daemon' class are HTTP/1.1 servers that listen on a socket for incoming requests. The `HTTP::Daemon' is a subclass of `IO::Socket::INET', so you can perform socket operations directly on it too.

  The accept() method will return when a connection from a client is available. The returned value will be an `HTTP::Daemon::ClientConn' object which is another `IO::Socket::INET' subclass. Calling the get_request() method on this object will read data from the client and return an `HTTP::Request' object. The ClientConn object also provide methods to send back various responses.
This HTTP daemon does not fork(2) for you. Your application, i.e. the user of the `HTTP::Daemon' is responsible for forking if that is desirable. Also note that the user is responsible for generating responses that conform to the HTTP/1.1 protocol.

The following methods of `HTTP::Daemon' are new (or enhanced) relative to the `IO::Socket::INET' base class:

$daemon = HTTP::Daemon->new
$daemon = HTTP::Daemon->new( %opts )

The constructor method takes the same arguments as the `IO::Socket::INET' constructor, but unlike its base class it can also be called without any arguments. The daemon will then set up a listen queue of 5 connections and allocate some random port number.

A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

$daemon = HTTP::Daemon->new(
    LocalAddr => 'www.thisplace.com',
    LocalPort => 80,
);

See `IO::Socket::INET' for a description of other arguments that can be used configure the daemon during construction.

$c = $daemon->accept
$c = $daemon->accept( $package )
($client, $peer_addr) = $daemon->accept

This method works the same the one provided by the base class, but it returns an `HTTP::Daemon::ClientConn' reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of `HTTP::Daemon::ClientConn'.

The accept method will return `undef' if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in `IO::Socket'.

In list context both the client object and the peer address will be returned; see the description of the accept method `IO::Socket' for details.

$daemon->url

Returns a URL string that can be used to access the server root.

$daemon->product_tokens
Returns the name that this server will use to identify itself. This is the string that is sent with the `Server' response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/##" where "##" is replaced with the version number of this module.

The `HTTP::Daemon::ClientConn' is a `IO::Socket::INET' subclass. Instances of this class are returned by the accept() method of `HTTP::Daemon'. The following methods are provided:

$c->get_request
$c->get_request( $headers_only )

This method reads data from the client and turns it into an `HTTP::Request' object which is returned. It returns `undef' if reading fails. If it fails, then the `HTTP::Daemon::ClientConn' object ($c) should be discarded, and you should not try call this method again on it. The $c->reason method might give you some information about why $c->get_request failed.

The get_request() method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a TRUE value as the $headers_only argument, then get_request() will return immediately after parsing the request headers and you are responsible for reading the rest of the request content. If you are going to call $c->get_request again on the same connection you better read the correct number of bytes.

$c->read_buffer
$c->read_buffer( $new_value )

Bytes read by $c->get_request, but not used are placed in the *read buffer*. The next time $c->get_request is called it will consume the bytes in this buffer before reading more data from the network connection itself. The read buffer is invalid after $c->get_request has failed.

If you handle the reading of the request content yourself you need to empty this buffer before you read more and you need to place unconsumed bytes here. You also need this buffer if you implement services like *101 Switching Protocols*.

This method always returns the old buffer content and can optionally replace the buffer content if you pass it an argument.
$c->reason
When $c->get_request returns `undef' you can obtain a short string
describing why it happened by calling $c->reason.

$c->proto_ge( $proto )
Return TRUE if the client announced a protocol with version number
greater or equal to the given argument. The $proto argument can be a
string like "HTTP/1.1" or just "1.1".

$c->antique_client
Return TRUE if the client speaks the HTTP/0.9 protocol. No status
code and no headers should be returned to such a client. This should
be the same as !$c->proto_ge("HTTP/1.0").

$c->head_request
Return TRUE if the last request was a `HEAD' request. No content
body must be generated for these requests.

$c->force_last_request
Make sure that $c->get_request will not try to read more requests
off this connection. If you generate a response that is not self
delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces
protocol HTTP/1.0 or worse and does not include a "Connection:
Keep-Alive" header. It is also turned on automatically when HTTP/1.1
or better clients send the "Connection: close" request header.

$c->send_status_line
$c->send_status_line( $code )
$c->send_status_line( $code, $mess )
$c->send_status_line( $code, $mess, $proto )
Send the status line back to the client. If $code is omitted 200 is
assumed. If $mess is omitted, then a message corresponding to $code
is inserted. If $proto is missing the content of the
$HTTP::Daemon::PROTO variable is used.

$c->send_crlf
Send the CRLF sequence to the client.

$c->send_basic_header
$c->send_basic_header( $code )
$c->send_basic_header( $code, $mess )
$c->send_basic_header( $code, $mess, $proto )
Send the status line and the "Date:" and "Server:" headers back to
the client. This header is assumed to be continued and does not end
with an empty CRLF line.
See the description of send_status_line() for the description of the accepted arguments.

$c->send_header( $field, $value )
c->send_header( $field1, $value1, $field2, $value2, ... )
Send one or more header lines.

c->send_response( $res )
Write a `HTTP::Response' object to the client as a response. We try hard to make sure that the response is self delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the `HTTP::Response' object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

c->send_redirect( $loc )
c->send_redirect( $loc, $code )
c->send_redirect( $loc, $code, $entity_body )
Send a redirect response back to the client. The location ($loc) can be an absolute or relative URL. The $code must be one the redirect status codes, and defaults to "301 Moved Permanently"

c->send_error
c->send_error( $code )
c->send_error( $code, $error_message )
Send an error response back to the client. If the $code is missing a "Bad Request" error is reported. The $error_message is a string that is incorporated in the body of the HTML entity body.

c->send_file_response( $filename )
Send back a response with the specified $filename as content. If the file is a directory we try to generate an HTML index of it.

c->send_file( $filename )
c->send_file( $fd )
Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an `IO::Handle' or glob.

c->daemon
Return a reference to the corresponding `HTTP::Daemon' object.

SEE ALSO
NAME
HTTP::Daemon - a simple http server class

SYNOPSIS

use HTTP::Daemon;
use HTTP::Status;

my $d = HTTP::Daemon->new || die;
print "Please contact me at: <URL: ", $d->url, ">\n";
while (my $c = $d->accept) {
  while (my $r = $c->get_request) {
  if ($r->method eq 'GET' and $r->uri->path eq "/xyzzy") {
    # remember, this is *not* recommended practice :-)
    $c->send_file_response("/etc/passwd");
  } else {
    $c->send_error(RC_FORBIDDEN)
  }
}
$c->close;
undef($c);

DESCRIPTION

Instances of the C<HTTP::Daemon> class are HTTP/1.1 servers that
listen on a socket for incoming requests. The C<HTTP::Daemon> is a
subclass of C<IO::Socket::INET>, so you can perform socket operations
directly on it too.

The accept() method will return when a connection from a client is
available. The returned value will be an C<HTTP::Daemon::ClientConn> object which is another C<IO::Socket::INET> subclass. Calling the get_request() method on this object will read data from the client and return an C<HTTP::Request> object. The ClientConn object also provide methods to send back various responses.

This HTTP daemon does not fork(2) for you. Your application, i.e. the user of the C<HTTP::Daemon> is responsible for forking if that is desirable. Also note that the user is responsible for generating responses that conform to the HTTP/1.1 protocol.

The following methods of C<HTTP::Daemon> are new (or enhanced) relative to the C<IO::Socket::INET> base class:

=over 4

=item $d = HTTP::Daemon->new

=item $d = HTTP::Daemon->new( %opts )

The constructor method takes the same arguments as the C<IO::Socket::INET> constructor, but unlike its base class it can also be called without any arguments. The daemon will then set up a listen queue of 5 connections and allocate some random port number.

A server that wants to bind to some specific address on the standard HTTP port will be constructed like this:

$d = HTTP::Daemon->new(
   LocalAddr => 'www.thisplace.com',
   LocalPort => 80,
);

See L<IO::Socket::INET> for a description of other arguments that can be used configure the daemon during construction.

=item $c = $d->accept

=item $c = $d->accept( $pkg )

=item ($c, $peer_addr) = $d->accept

This method works the same the one provided by the base class, but it returns an C<HTTP::Daemon::ClientConn> reference by default. If a package name is provided as argument, then the returned object will be blessed into the given class. It is probably a good idea to make that class a subclass of C<HTTP::Daemon::ClientConn>.
The accept method will return \texttt{C<undef>} if timeouts have been enabled and no connection is made within the given time. The timeout() method is described in \texttt{L<IO::Socket>},

In list context both the client object and the peer address will be returned; see the description of the accept method \texttt{L<IO::Socket>} for details.

\texttt{=item $d->url}

Returns a URL string that can be used to access the server root.

\texttt{=item $d->product_tokens}

Returns the name that this server will use to identify itself. This is the string that is sent with the \texttt{C<Server>} response header. The main reason to have this method is that subclasses can override it if they want to use another product name.

The default is the string "libwww-perl-daemon/#.##" where "#.##" is replaced with the version number of this module.

\texttt{=back}

The \texttt{C<HTTP::Daemon::ClientConn>} is a \texttt{C<IO::Socket::INET>} subclass. Instances of this class are returned by the accept() method of \texttt{C<HTTP::Daemon>}. The following methods are provided:

\texttt{=over 4}

\texttt{=item $c->get_request}

\texttt{=item $c->get_request( $headers_only )}

\texttt{=item $c->get_request( $headers_only )}

This method reads data from the client and turns it into an \texttt{C<HTTP::Request>} object which is returned. It returns \texttt{C<undef>} if reading fails. If it fails, then the \texttt{C<HTTP::Daemon::ClientConn>} object ($c) should be discarded, and you should not try call this method again on it. The \texttt{$c->reason} method might give you some information about why \texttt{$c->get_request} failed.

The \texttt{get_request()} method will normally not return until the whole request has been received from the client. This might not be what you want if the request is an upload of a large file (and with chunked transfer encoding HTTP can even support infinite request messages - uploading live audio for instance). If you pass a \texttt{TRUE} value as the \texttt{$headers_only} argument, then \texttt{get_request()} will return immediately after parsing the request headers and you are responsible for reading
the rest of the request content. If you are going to call 
$c->get_request again on the same connection you better read the 
correct number of bytes.

=item $c->read_buffer

=item $c->read_buffer( $new_value )

Bytes read by $c->get_request, but not used are placed in the I<read buffer>. The next time $c->get_request is called it will consume the bytes in this buffer before reading more data from the network 
connection itself. The read buffer is invalid after $c->get_request 
has failed.

If you handle the reading of the request content yourself you need to 
empty this buffer before you read more and you need to place 
unconsumed bytes here. You also need this buffer if you implement 
services like I<101 Switching Protocols>. 

This method always returns the old buffer content and can optionally 
replace the buffer content if you pass it an argument.

=item $c->reason

When $c->get_request returns C<undef> you can obtain a short string 
describing why it happened by calling $c->reason.

=item $c->proto_ge( $proto )

Return TRUE if the client announced a protocol with version number 
greater or equal to the given argument. The $proto argument can be a 
string like "HTTP/1.1" or just "1.1".

=item $c->antique_client

Return TRUE if the client speaks the HTTP/0.9 protocol. No status 
code and no headers should be returned to such a client. This should 
be the same as !$c->proto_ge("HTTP/1.0").

=item $c->head_request

Return TRUE if the last request was a C<HEAD> request. No content 
body must be generated for these requests.

=item $c->force_last_request

Make sure that $c->get_request will not try to read more requests off 
this connection. If you generate a response that is not self
delimiting, then you should signal this fact by calling this method.

This attribute is turned on automatically if the client announces protocol HTTP/1.0 or worse and does not include a "Connection: Keep-Alive" header. It is also turned on automatically when HTTP/1.1 or better clients send the "Connection: close" request header.

=item $c->send_status_line

=item $c->send_status_line( $code )

=item $c->send_status_line( $code, $mess )

=item $c->send_status_line( $code, $mess, $proto )

Send the status line back to the client. If $code is omitted 200 is assumed. If $mess is omitted, then a message corresponding to $code is inserted. If $proto is missing the content of the $HTTP::Daemon::PROTO variable is used.

=item $c->send_crlf

Send the CRLF sequence to the client.

=item $c->send_basic_header

=item $c->send_basic_header( $code )

=item $c->send_basic_header( $code, $mess )

=item $c->send_basic_header( $code, $mess, $proto )

Send the status line and the "Date:" and "Server:" headers back to the client. This header is assumed to be continued and does not end with an empty CRLF line.

See the description of send_status_line() for the description of the accepted arguments.

=item $c->send_header( $field, $value )

=item $c->send_header( $field1, $value1, $field2, $value2, ... )

Send one or more header lines.

=item $c->send_response( $res )

Write a C<HTTP::Response> object to the
client as a response. We try hard to make sure that the response is self delimiting so that the connection can stay persistent for further request/response exchanges.

The content attribute of the \texttt{HTTP::Response} object can be a normal string or a subroutine reference. If it is a subroutine, then whatever this callback routine returns is written back to the client as the response content. The routine will be called until it return an undefined or empty value. If the client is HTTP/1.1 aware then we will use chunked transfer encoding for the response.

\begin{itemize}
\item \texttt{$c->send_redirect( $loc )}$
\item \texttt{$c->send_redirect( $loc, $code )}$
\item \texttt{$c->send_redirect( $loc, $code, $entity_body )}$
\end{itemize}

Send a redirect response back to the client. The location ($\texttt{loc}$) can be an absolute or relative URL. The $\texttt{code}$ must be one the redirect status codes, and defaults to "301 Moved Permanently".

\begin{itemize}
\item \texttt{$c->send_error}$
\item \texttt{$c->send_error( $code )}$
\item \texttt{$c->send_error( $code, $error_message )}$
\end{itemize}

Send an error response back to the client. If the $\texttt{code}$ is missing a "Bad Request" error is reported. The $\texttt{error_message}$ is a string that is incorporated in the body of the HTML entity body.

\begin{itemize}
\item \texttt{$c->send_file_response( $filename )}$
\end{itemize}

Send back a response with the specified $\texttt{filename}$ as content. If the file is a directory we try to generate an HTML index of it.

\begin{itemize}
\item \texttt{$c->send_file( $filename )}$
\item \texttt{$c->send_file( $fd )}$
\end{itemize}

Copy the file to the client. The file can be a string (which will be interpreted as a filename) or a reference to an \texttt{IO::Handle} or glob.

\begin{itemize}
\item \texttt{$c->daemon}$
\end{itemize}

Return a reference to the corresponding \texttt{HTTP::Daemon} object.
1.656 libdevmapper 1.02.110 1ubuntu10

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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.)
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) 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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1.663 jetty-alpn-server 9.4.34.v20201102

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

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OW2

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

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Apache

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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Eclipse

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

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

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

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

Apache

The following artifacts are ASL2 licensed.

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

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.668 nettle 3.2-1ubuntu0.16.04.2

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

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EcdsaUsingShaAlgorithm contains code for converting the concatenated R & S values of the signature to and from DER, which was originally derived from the Apache Santuario XML Security library's SignatureECDSA implementation. http://santuario.apache.org/

The Base64 implementation in this software was derived from the Apache Commons Codec project. http://commons.apache.org/proper/commons-codec/

JSON processing in this software was derived from the JSON.simple toolkit.
https://code.google.com/p/json-simple/

========================================================================
== noggit notice ==
========================================================================
noggit
Noggit is a fast streaming JSON parser for java. The code is included into Solr codebase.

https://github.com/yonik/noggit

1.672 retrying 1.3.3

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1.673 markupsafe 0.23-2build2

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1.675 webpy 0.37+20120626-1

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1.676 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,   '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);

=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 [Sid, $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.

=over 3

=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
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

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

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

This is the number of bytes used to represent the content.
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):

- **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

=item 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)."

=back

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=head1 AUTHOR

Gisle Aas <gisle@aas.no>

=cut

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* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/lib/HTTP/Negotiate.pm
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NAME
HTTP::Negotiate - choose a variant to serve

SYNOPSIS
use HTTP::Negotiate qw(choose);

# ID   QS     Content-Type   Encoding Char-Set Lang Size
$variants =
    [['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
 ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
 ['var3', 0.3, 'image/gif', undef, undef, undefined, 43555],
];
@preferred = choose($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 [Sid, Sqs,
$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".

collection-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

collection-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

collection-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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>Norwegian</td>
</tr>
<tr>
<td>en</td>
<td>International English</td>
</tr>
<tr>
<td>en-US</td>
<td>US English</td>
</tr>
<tr>
<td>en-cockney</td>
<td></td>
</tr>
</tbody>
</table>

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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AUTHOR
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* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/README
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/META.yml

1.677 lucene-classification 8.8.2
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.680 libgcrypt 1.6.5 2ubuntu0.6

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 */

/**
* Embedded non-blocking server and server bootstrap.

*/

package org.apache.http.impl.nio.bootstrap;

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This package was put together by me, James Troup <james@nocrew.org>, from the GNU sources, which I obtained from:


The changes were small:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.
- buf.c (open_sbuf): use tmpfile() and not mktemp().
- glbl.c (exec_global), io.c (read_stream, get_stream_line), main.c (main, exec_command, get_matching_node_addr, strip_escapes), re.c (get_compiled_pattern), sub.c (extract_subst_template, substitute_matching_text): parentheses to quiet -Wall.
- ed.1: various fixes by Matt Kraai <kraai@alumni.carnegiemellon.edu>

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  jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplateOperations.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/EmbeddedDatabase.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/ScriptStatementFailedException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/datasource/ScriptsStatementFailedException.java

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  jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-
  jar/org/springframework/jdbc/core/namedparam/ParsedSql.java

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Abstraction for handling large binary fields and large text fields in
specific databases, no matter if represented as simple types or Large OBjects.
Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
{@link OracleLobHandler}; most other databases should be able to work
with the provided {@link DefaultLobHandler}.

* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
*
* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
* which by default delegates to JDBC's direct accessor methods, avoiding the
* [@link DefaultLobHandler] can also be configured to access LOBs using
* [@code PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through
* setting the [@link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
*
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* [@link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with [@link DefaultLobHandler]
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use [@link OracleLobHandler] at all anymore.
*
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
*
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use [@link DefaultLobHandler],
* potentially with [@code streamAsLob=true] if your database driver requires that
* hint when populating a LOB field. Fall back to [@code createTemporaryLob=true]
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li><b>Oracle 10g driver:</b> Use [@link DefaultLobHandler] with standard setup.
* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary [@link OracleLobHandler] (see below).
* <li><b>Oracle 9i driver:</b> Use [@link OracleLobHandler] with a connection-pool-specific
* [@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor].
* <li><b>PostgreSQL:</b> Configure [@link DefaultLobHandler] with [@code wrapAsLob=true],
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain [@link DefaultLobHandler].
* </ul>

* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/lob/LobHandler.java
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* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/lob/LobHandler.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
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* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4.3-23-release-sources-1-jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4.3-23-release-sources-1-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
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* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/EmbeddedDatabaseFactoryBean.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/lob/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
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* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionCodes.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/support/CustomSQLExceptionCodes.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1136271308_1613726245.03/0/spring-jdbc-4-3-23-release-sources-1-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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 */

/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/

/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never {@code null})
*/

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/**
* {@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB}
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*/
While most databases are able to work with DefaultLobHandler, Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn't accept large streams for PreparedStatement's corresponding setter methods. Therefore, you need to use a strategy like this LobHandler implementation, or upgrade to the Oracle 10g/11g driver (which still supports access to Oracle 9i databases).

NOTE: As of Oracle 10.2, DefaultLobHandler should work equally well out of the box. On Oracle 11g, JDBC 4.0 based options such as {setStreamAsLob} and {setCreateTemporaryLob} are available as well, rendering this proprietary OracleLobHandler obsolete.

Also, consider upgrading to a new driver even when accessing an older database. See the LobHandler interface javadoc for a summary of recommendations.

Needs to work on a native JDBC Connection, to be able to cast it to oracle.jdbc.OracleConnection. If you pass in Connections from a connection pool (the usual case in a Java EE environment), you need to set an appropriate support.nativejdbc.NativeJdbcExtractor to allow for automatic retrieval of the underlying native JDBC Connection. LobHandler and NativeJdbcExtractor are separate concerns, therefore they are represented by separate strategy interfaces.

Coded via reflection to avoid dependencies on Oracle classes. Even reads in Oracle constants via reflection because of different Oracle drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values! As this LobHandler initializes Oracle classes on instantiation, do not define this as eager-initializing singleton if you do not want to depend on the Oracle JAR being in the class path: use "lazy-init=true" to avoid this issue.

@author Juergen Hoeller
@author Thomas Risberg
@since 04.12.2003
@see DefaultLobHandler
@see #setNativeJdbcExtractor
@deprecated in favor of DefaultLobHandler for the Oracle 10g driver and higher. Consider using the 10g/11g driver even against an Oracle 9i database! {setCreateTemporaryLob} is the direct equivalent of this OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.

That said, in most cases, regular DefaultLobHandler setup will work fine as well. /
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/**
 * Strategy interface for translating between {link SQLException SQLExceptions}
 * and Spring's data access strategy-agnostic {link DataAccessException}
 * hierarchy.
 *
 * Implementations can be generic (for example, using
 * {link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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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

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MortBay

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

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.702 libimport-into-perl 1.002005-1

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NAME
Import::Into - Import packages into other packages

SYNOPSIS
package My::MultiExporter;

use Import::Into;

# simple
sub import {
    Thing1->import::into(scalar caller);
}

# multiple
sub import {
    my $target = caller;
    Thing1->import::into($target);
    Thing2->import::into($target, qw(import arguments));
}

# by level
sub import {
    Thing1->import::into(1);
}

# with exporter
use base qw(Exporter);
sub import {
    shift->export_to_level(1);
    Thing1->import::into(1);
}
# no My::MultiExporter == no Thing1
sub unimport {
  Thing1->unimport::out_of(scalar caller);
}

People wanting to re-export your module should also be using Import::Into. Any exporter or pragma will work seamlessly.

Note: You do not need to make any changes to Thing1 to be able to call "import::into" on it. This is a global method, and is callable on any package (and in fact on any object as well, although it's rarer that you'd want to do that).

DESCRIPTION
Writing exporters is a pain. Some use Exporter, some use Sub::Exporter, some use Moose::Exporter, some use Exporter::Declare ... and some things are pragmas.

Exporting on someone else's behalf is harder. The exporters don't provide a consistent API for this, and pragmas need to have their import method called directly, since they effect the current unit of compilation.

"Import::Into" provides global methods to make this painless.

METHODS
$package->import::into( $target, @arguments );
A global method, callable on any package. Loads and imports the given package into $target. @arguments are passed along to the package's import method.

$target can be an package name to export to, an integer for the caller level to export to, or a hashref with the following options:

package
  The target package to export to.

filename
  The apparent filename to export to. Some exporting modules, such as autodie or strictures, care about the filename they are being imported to.

line
  The apparent line number to export to. To be combined with the "filename" option.

level
  The caller level to export to. This will automatically populate the
"package", "filename", and "line" options, making it the easiest most consistent option.

version
A version number to check for the module. The equivalent of specifying the version number on a "use" line.

$package->unimport::out_of( $target, @arguments );
Equivalent to "import::into", but dispatches to $package's "unimport" method instead of "import".

WHY USE THIS MODULE
The APIs for exporting modules aren't consistent. Exporter subclasses provide export_to_level, but if they overrode their import method all bets are off. Sub::Exporter provides an into parameter but figuring out something used it isn't trivial. Pragmas need to have their "import" method called directly since they affect the current unit of compilation.

It's ... annoying.

However, there is an approach that actually works for all of these types.

eval "package $target; use $thing;"

will work for anything checking caller, which is everything except pragmas. But it doesn't work for pragmas - pragmas need:

$thing->import;

because they're designed to affect the code currently being compiled - so within an eval, that's the scope of the eval itself, not the module that just "use"d you - so

sub import {
    eval "use strict;"
}

doesn't do what you wanted, but

sub import {
    strict->import;
}

will apply strict to the calling file correctly.

Of course, now you have two new problems - first, that you still need to
know if something's a pragma, and second that you can't use either of these approaches alone on something like Moose or Moo that's both an exporter and a pragma.

So, a solution for that is:

```perl
use Module::Runtime;
my $sub = eval "package $target; sub { use_module(shift)->import(@_) }";
$sub->($thing, @import_args);
```

which means that import is called from the right place for pragmas to take effect, and from the right package for caller checking to work - and so behaves correctly for all types of exporter, for pragmas, and for hybrids.

Additionally, some import routines check the filename they are being imported to. This can be dealt with by generating a #line directive in the eval, which will change what "caller" reports for the filename when called in the importer. The filename and line number to use in the directive then need to be fetched using "caller":

```perl
my ($target, $file, $line) = caller(1);
my $sub = eval qq{
package $target;
#line $line "$file"
sub { use_module(shift)->import(@_) }
};
$sub->($thing, @import_args);
```

And you need to switch between these implementations depending on if you are targeting a specific package, or something in your call stack.

Remembering all this, however, is excessively irritating. So I wrote a module so I didn't have to anymore. Loading Import::Into creates a global method "import::into" which you can call on any package to import it into another package. So now you can simply write:

```perl
use Import::Into;
$thing->import::into($target, @import_args);
```

This works because of how perl resolves method calls - a call to a simple method name is resolved against the package of the class or object, so

```perl
$thing->method_name(@args);
```

is roughly equivalent to:
my $code_ref = $thing->can('method_name');
$code_ref->($thing, @args);

while if a "::" is found, the lookup is made relative to the package
name (i.e. everything before the last "::") so

$thing->Package::Name::method_name(@args);

is roughly equivalent to:

my $code_ref = Package::Name->can('method_name');
$code_ref->($thing, @args);

So since Import::Into defines a method "into" in package "import" the
syntax reliably calls that.

For more craziness of this order, have a look at the article I wrote at
<http://shadow.cat/blog/matt-s-trout/madness-with-methods> which covers
coderef abuse and the "${\ldots}" syntax.

And that's it.

SEE ALSO
I gave a lightning talk on this module (and curry and Safe::Isa) at
YAPC::NA 2013 <https://www.youtube.com/watch?v=wFXWV2y7gE&t=46m05s>.

ACKNOWLEDGEMENTS
Thanks to Getty for asking "how can I get "use strict; use warnings;"
turned on for all consumers of my code?" and then "why is this not a
module?!".

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=head1 NAME

Import::Into - Import packages into other packages

=head1 SYNOPSIS

package My::MultiExporter;

use Import::Into;

# simple
sub import {
  Thing1->import::into(scalar caller);
}

# multiple
sub import {
  my $target = caller;
  Thing1->import::into($target);
  Thing2->import::into($target, qw(import arguments));
}

# by level
sub import {
  Thing1->import::into(1);
}

# with exporter
use base qw(Exporter);
sub import {
  shift->export_to_level(1);
  Thing1->import::into(1);
}

# no My::MultiExporter == no Thing1
sub unimport {
  Thing1->unimport::out_of(scalar caller);
}

People wanting to re-export your module should also be using L<Import::Into>.
Any exporter or pragma will work seamlessly.

Note: You do B<not> need to make any changes to Thing1 to be able to call
C<import::into> on it. This is a global method, and is callable on any package (and in fact on any object as well, although it's rarer that you'd want to do that).

=head1 DESCRIPTION

Writing exporters is a pain. Some use L<Exporter>, some use L<Sub::Exporter>, some use L<Moose::Exporter>, some use L<Exporter::Declare> ... and some things are pragmas.

Exporting on someone else's behalf is harder. The exporters don't provide a consistent API for this, and pragmas need to have their import method called directly, since they effect the current unit of compilation.

C<Import::Into> provides global methods to make this painless.

=head1 METHODS

=head2 $package->import::into( $target, @arguments );

A global method, callable on any package. Loads and imports the given package into C<$target>. C@$arguments> are passed along to the package's import method.

C<$target> can be an package name to export to, an integer for the caller level to export to, or a hashref with the following options:

=over 4

=item package

The target package to export to.

=item filename

The apparent filename to export to. Some exporting modules, such as L<autodie> or L<strictures>, care about the filename they are being imported to.

=item line

The apparent line number to export to. To be combined with the C<filename> option.

=item level

The caller level to export to. This will automatically populate the C<package>, C<filename>, and C<line> options, making it the easiest most constant option.
A version number to check for the module. The equivalent of specifying the
version number on a C<use> line.

Equivalent to C<import::into>, but dispatches to C<$package>’s C<unimport>
method instead of C<import>.

WHY USE THIS MODULE

The APIs for exporting modules aren’t consistent. L<Exporter> subclasses
provide export_to_level, but if they overrode their import method all bets
are off. L<Sub::Exporter> provides an into parameter but figuring out
something used it isn’t trivial. Pragmas need to have their C<import> method
called directly since they affect the current unit of compilation.

It’s ... annoying.

However, there is an approach that actually works for all of these types.

eval "package $target; use $thing;"

will work for anything checking caller, which is everything except pragmas.
But it doesn’t work for pragmas - pragmas need:

$thing->import;

because they’re designed to affect the code currently being compiled - so
within an eval, that’s the scope of the eval itself, not the module that
just C<use>d you - so

sub import {
    eval "use strict;"
}

doesn’t do what you wanted, but

sub import {
    strict->import;
}

will apply L<strict> to the calling file correctly.
Of course, now you have two new problems - first, that you still need to know if something's a pragma, and second that you can't use either of these approaches alone on something like L<Moose> or L<Moo> that's both an exporter and a pragma.

So, a solution for that is:

```perl
use Module::Runtime;
my $sub = eval "package $target; sub { use_module(shift)->import(@_) }";
$sub->($thing, @import_args);
```

which means that import is called from the right place for pragmas to take effect, and from the right package for caller checking to work - and so behaves correctly for all types of exporter, for pragmas, and for hybrids.

Additionally, some import routines check the filename they are being imported to. This can be dealt with by generating a L<#line directive|perlsyn/Plain Old Comments (Not!)> in the eval, which will change what C<caller> reports for the filename when called in the importer. The filename and line number to use in the directive then need to be fetched using C<caller>:

```perl
my ($target, $file, $line) = caller(1);
my $sub = eval qq{
    package $target;
    #line $line "$file"
    sub { use_module(shift)->import(@_) }
};
$sub->($thing, @import_args);
```

And you need to switch between these implementations depending on if you are targeting a specific package, or something in your call stack.

Remembering all this, however, is excessively irritating. So I wrote a module so I didn't have to anymore. Loading L<Import::Into> creates a global method C<import::into> which you can call on any package to import it into another package. So now you can simply write:

```perl
use Import::Into;

$thing->import::into($target, @import_args);
```

This works because of how perl resolves method calls - a call to a simple method name is resolved against the package of the class or object, so

```perl
$thing->method_name(@args);
```

is roughly equivalent to:
my $code_ref = $thing->can('method_name');
$code_ref->($thing, @args);

while if a C<::> is found, the lookup is made relative to the package name
(i.e. everything before the last C<::>) so

$thing->Package::Name::method_name(@args);

is roughly equivalent to:

my $code_ref = Package::Name->can('method_name');
$code_ref->($thing, @args);

So since L<Import::Into> defines a method C<into> in package C<import>
the syntax reliably calls that.

For more craziness of this order, have a look at the article I wrote at
L<http://shadow.cat/blog/matt-s-trout/madness-with-methods> which covers
coderef abuse and the C<$\{\ldots\}> syntax.

And that’s it.

=head1 SEE ALSO

I gave a lightning talk on this module (and L<curry> and L<Safe::Isa>) at
L<YAPC::NA 2013|https://www.youtube.com/watch?v=wFXWV2yY7gE&t=46m05s>.

=head1 ACKNOWLEDGEMENTS

Thanks to Getty for asking "how can I get C<< use strict; use warnings; >>
turned on for all consumers of my code?" and then "why is this not a
module?!".

=head1 AUTHOR

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Mithaldu - Christian Walde (cpan:MITHALDU) <walde.christian@gmail.com>

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1.703 libhtml-tagset-perl 3.20-2

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like 
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data tables by altering the data tables themselves. You are welcome 
to try, but be careful; and be aware that different modules may or may 
react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing> 
HTML — for example, C<%isHeadOrBodyElement> lists the tagnames 
for all elements that can appear either in the head or in the body, 
such as "script". That doesn't mean that I am saying your code that 
produces HTML should feel free to put script elements in either place! 
If you are producing programs that spit out HTML, you should be 
I<intimately> familiar with the DTDs for HTML or XHTML (available at 
C<http://www.w3.org/|>), and you should slavishly obey them, not 
the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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=head1 ACKNOWLEDGEMENTS

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<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>
Please report any bugs or feature requests to 
C<bug-html-tagset at rt.cpan.org>, or through the web interface at 
be notified, and then you'll automatically be notified of progress on 
your bug as I make changes.

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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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1.704 ansible 2.0.0.2-2ubuntu1.3

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

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This package was put together by Dirk Eddelbuettel from the previous Debian package time-1.6-2 (from ftp.debian.org) and the GNU sources for time-1.6. The package was subsequently maintained and updated by Tollef Fog Heen, Salvatore Bonaccorso, and Bob Proulx.

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1.716 jacoco-report 0.7.8-SNAPSHOT

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For hadoop-common-project/hadoop-common/src/main/native/gtest
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broccoli-asset-rev v2.4.2
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datatables v1.10.8
em-helpers v0.5.13
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Java8SslUtils.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionStats.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/SslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/IPFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/InsecureTrustManagerFactory.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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Debian maintainer history: The original package was put together by
Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley
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  The idea for -print0 and xargs -0 came from
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* GNU locate and its associated utilities were originally
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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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jar/org/dom4j/XPathException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCharacterData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dtd/ExternalEntityDecl.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/XMLTableDefinition.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XPP3Reader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/DocumentTreeModel.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/ProxyDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/PruningElementStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ContentListFacade.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Visitor.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Node.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Attribute.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Mode.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/NullAction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Namespace.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XPPReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/OutputFormat.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/NamedTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/branch/Branch.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleManager.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleSet.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Text.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentSource.java
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jar/org/dom4j/io/SAXReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXHelper.java

1.735 commons-lang3 3.2.1

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---
abstract: 'Implements default import method for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
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dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, 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: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
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version: 5.70

Found in path(s):
* /opt/cola/permits/1013874315_1622008002.64/0/perl-Exporter-5.72-1001.module_el8.1.0+229+cd132df8.src.rpm-cosi-expand-archive-ThuNoVFp/Exporter-5.70.tar.gz-cosi-expand-archive-fFYWcjvK/Exporter-5.70/META.yml

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

NAME
  Exporter - Implements default import method for modules

SYNOPSIS
  In module YourModule.pm:

  package YourModule;
  require Exporter;
  @ISA = qw(Exporter);
  @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

  or

  package YourModule;
  use Exporter 'import';  # gives you Exporter's import() method directly
  @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

  In other files which wish to use "YourModule":

  use YourModule qw(frobnicate);  # import listed symbols
  frobnicate ($left, $right)      # calls YourModule::frobnicate

  Take a look at "Good Practices" for some variants you will like to use
DESCRIPTION

The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export

The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```
@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export

Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```
my $subref = sub { ... };
$subref->(@args);       # Call it as a function
$obj->$subref(@args);   # Use it as a method
```
However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

[!]name          This name only
[!]:DEFAULT      All names in @EXPORT
[!]:tag          All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/     All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra
names in addition to the default set you will still need to include
:DEFAULT explicitly.

e.g., Module.pm defines:

```perl
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.
Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a
leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the
specifications are being processed and what is actually being imported
into modules.

Exporting without using Exporter's import method
Exporter has a special method, 'export_to_level' which is used in
situations where you can't directly call Exporter's import method. The
export_to_level method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling
stack to export your symbols, and @what_to_export is an array telling
what symbols *to* export (usually this is @_). The $package argument is
currently unused.

For example, suppose that you have a module, A, which already has an
import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);
```
sub import
{
    $A::b = 1;     # not a very useful import method
}

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter
By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which
checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name->export_fail(@failed_symbols);

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

    %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
    Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
    Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.
Generating combined tags

If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
        foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in %EXPORT_TAGS don't have the leading ":".

"AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:
package My ;

use Socket ;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the "AUTOLOAD" for "SO_LINGER" to take place before
SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an
"AUTOLOAD" for any constants explicitly imported by other packages or
which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas,
the "our" keyword is needed to declare the package variables @EXPORT_OK,
@EXPORT, @ISA, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must
write instead a "use vars" statement.

    use vars qw(@ISA @EXPORT_OK);
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require
Exporter" and the assignment to package variables, which can very subtle
for the unaware programmer. This may happen for instance with mutually
recursive modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to
use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
rewritten as:

    package YourModule;

    use strict;
    use warnings;

    our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

    use base qw( Exporter );
    # or
    use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

    use Exporter::Easy (        
        OK => [ qw(munge frobnicate) ],
    ); # @ISA setup is automatic
    # all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names.
Just because "Exporter" lets you do that, it does not mean you should.

```perl
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub::Installer
- Perl6::Export / Perl6::Export::Attrs

LICENSE
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/1013874315_1622008002.64/0/perl-Exporter-5.72-1001.module_el8.1.0+229+cd132df8.src.rpm-cosi-expand-archive-ThzNoVFp/Exporter-5.70.tar.gz-cosi-expand-archive-fFYWcvjK/Exporter-5.70/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

```perl
package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

or
package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)         # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because
Exporter provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a
C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of
modules and how the C<use> statement operates is important to
understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of
symbols that are going to be exported into the users name space by
default, or which they can request to be exported, respectively. The
symbols can represent functions, scalars, arrays, hashes, or typeglobs.
The symbols must be given by full name with the exception that the
ampersand in front of a function is optional, e.g.

@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!
Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };  
$subref->(@args);  # Call it as a function  
$obj->$subref(@args);  # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.
Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- `![name]` This name only
- `![tag]` All names in @EXPORT
- `![pattern/]` All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

For example, `F<Module.pm>` defines:

```plaintext
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => 
                [qw(A1 A2 B1 B2)],
                T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```plaintext
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```plaintext
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.  

---

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You can say `BEGIN { $Exporter::Verbose=1 }` to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, `export_to_level` which is used in situations where you can't directly call Exporter's import method. The `export_to_level` method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where `$where_to_export` is an integer telling how far up the calling stack to export your symbols, and `@what_to_export` is an array telling what symbols to export (usually this is `@_`). The `$package` argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{

$A::b = 1; # not a very useful import method
}
```

and you want to Export symbol `$A::b` back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{

$A::b = 1;
A->export_to_level(1, @_);
}
```
This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify C<@>_ at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do:

package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter
will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the `export_fail` method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default `export_fail` method which simply returns the list unchanged.

Uses for the `export_fail` method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into `@EXPORT_FAIL` by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within `%EXPORT_TAGS` must also appear in either `@EXPORT` or `@EXPORT_OK`, two utility functions are provided which allow you to easily add tagged sets of symbols to `@EXPORT` or `@EXPORT_OK`:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to `@EXPORT` or `@EXPORT_OK` unchanged but will trigger a warning (with `<-w>`) to avoid misspelt tags names being silently added to `@EXPORT` or `@EXPORT_OK`. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in `%EXPORT_TAGS`, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;
```
push @{$EXPORT_TAGS{all}},
grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}  

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
  grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
  foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ":".

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<>()> prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

package My ;

use Socket ;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing
an `AUTOLOAD` for any constants explicitly imported by other packages or which are usually used when your package is `use`d.

=head1 Good Practices

=head2 Declaring ` EXPORT_OK` and Friends

When using `Exporter` with the standard `strict` and `warnings` pragmas, the `our` keyword is needed to declare the package variables ` EXPORT_OK`, ` EXPORT`, `ISA`, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a `use vars` statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `BEGIN` blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

```perl
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
```

The `BEGIN` will assure that the loading of F<Exporter.pm> and the assignments to `ISA` and `EXPORT_OK` happen
immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading C<Exporter> and inheriting, there are alternatives with the use of modules like C<base> and C<parent>.

use base qw(Exporter);
# or
use parent qw(Exporter);

Any of these statements are nice replacements for C<BEGIN { require Exporter; @ISA = qw(Exporter); }>, with the same compile-time effect. The basic difference is that C<base> code interacts with declared C<fields> while C<parent> is a streamlined version of the older C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of L<base> and L<parent>.

Another thorough remedy to that runtime vs. compile-time trap is to use L<Exporter::Easy>, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

use Exporter::Easy (  
    OK => { qw(munge frobnicate) },  
);  
# @ISA setup is automatic  
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export> to not export:

=over 4

=item *

method names (because you don't need to and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users... badly)
anything you don't need to (because less is more)

There's one more item to add to this list. Do *not* export variable names. Just because \texttt{Exporter} lets you do that, it does not mean you should.

\begin{verbatim}
@EXPORT_OK = qw($svar @avar %hvar); # DON'T!
\end{verbatim}

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

\section*{SEE ALSO}

\texttt{Exporter} is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

- \texttt{Exporter::Easy}
- \texttt{Exporter::Lite}
- \texttt{Exporter::Renaming}
- \texttt{Exporter::Tidy}
- \texttt{Sub::Exporter / Sub::Installer}
- \texttt{Perl6::Export / Perl6::Export::Attrs}

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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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=head1 NAME

Want - A generalisation of C<wantarray>

=head1 SYNOPSIS

use Want;
sub foo :lvalue {
    if (want(qw'LVALUE ASSIGN')) {

print "We have been assigned ", want('ASSIGN');
Inoreturn;
}
elseif (want('LIST')) {
  return (1, 2, 3);
}
elseif (want('BOOL')) {
  return 0;
}
elseif (want(qw'SCALAR !REF')) {
  return 23;
}
elseif (want('HASH')) {
  return { foo => 17, bar => 23 }; 
}
return;  # You have to put this at the end to keep the compiler happy 
}

=head1 DESCRIPTION

This module generalises the mechanism of the B<wantarray> function, allowing a function to determine in some detail how its return value is going to be immediately used.

=head2 Top-level contexts:

The three kinds of top-level context are well known:

=over 4

=item B<VOID>

The return value is not being used in any way. It could be an entire statement like C<foo();>, or the last component of a compound statement which is itself in void context, such as C<$test || foo();>n. Be warned that the last statement of a subroutine will be in whatever context the subroutine was called in, because the result is implicitly returned.

=item B<SCALAR>

The return value is being treated as a scalar value of some sort:

  my $x = foo();
  $y += foo();
  print "123" x foo();
  print scalar foo();
  warn foo()->{23};
  ...etc...

The return value is treated as a list of values:

```perl
my @x = foo();
my ($x) = foo();
() = foo(); # even though the results are discarded
print foo();
bar(foo()); # unless the bar subroutine has a prototype
print @hash{foo()}; # (hash slice)
...etc...
```

Lvalue subroutines:

The introduction of lvalue subroutines in Perl 5.6 has created a new type of contextual information, which is independent of those listed above. When an lvalue subroutine is called, it can either be called in the ordinary way (so that its result is treated as an ordinary value, an rvalue); or else it can be called so that its result is considered updatable, an lvalue.

These rather arcane terms (lvalue and rvalue) are easier to remember if you know why they are so called. If you consider a simple assignment statement `C<left = right>`, then the left-hand side is an lvalue and the right-hand side is an rvalue.

So (for lvalue subroutines only) there are two new types of context:

=over 4

=item B<RVALUE>

The caller is definitely not trying to assign to the result:

```perl
foo();
my $x = foo();
...etc...
```

If the sub is declared without the `C<:lvalue>` attribute, then it will always be in RVALUE context.

If you need to return values from an lvalue subroutine in RVALUE context, you should use the `C<rreturn>` function rather than an ordinary `C<return>`. Otherwise you’ll probably get a compile-time error in Perl 5.6.1 and later.

=item B<LVALUE>
Either the caller is directly assigning to the result of the sub call:

```perl
foo() = $x;
foo() = (1, 1, 2, 3, 5, 8);
```

or the caller is making a reference to the result, which might be assigned to later:

```perl
my $ref = \(foo()); # Could now have: $ref = 99;

# Note that this example imposes LIST context on the sub call.
# So we're taking a reference to the first element to be
# returned _in list context_.
# If we want to call the function in scalar context, we can
# do it like this:
my $ref = \(scalar foo());
```

or else the result of the function call is being used as part of the argument list for another function call:

```perl
bar(foo()); # Will *always* call foo in lvalue context,
# (provided that foo is an C:<lvalue> sub)
# regardless of what bar actually does.
```

The reason for this last case is that bar might be a sub which modifies its arguments. They're rare in contemporary Perl code, but perfectly possible:

```perl
sub bar {
    $_[0] = 23;
}
```

(This is really a throwback to Perl 4, which didn't support explicit references.)

=back

=head2 Assignment context:

The commonest use of lvalue subroutines is with the assignment statement:

```perl
size() = 12;
$list() = (1..10);
```

A useful motto to remember when thinking about assignment statements is context comes from the left. Consider code like this:

```perl
my ($x, $y, $z);
sub list () :lvalue { ($x, $y, $z) }
```
list = (1, 2, 3);
print "$x = $x; $y = $y; $z = $z\n";

This prints C<$x = ; $y = ; $z = 3>, which may not be what you were expecting. The reason is that the assignment is in scalar context, so the comma operator is in scalar context too, and discards all values but the last. You can fix it by writing C<(list) = (1,2,3)> instead.

If your lvalue subroutine is used on the left of an assignment statement, it's in B<ASSIGN> context. If ASSIGN is the only argument to C<want()>, then it returns a reference to an array of the value(s) of the right-hand side.

In this case, you should return with the C<lnoreturn> function, rather than an ordinary C<return>.

This makes it very easy to write lvalue subroutines which do clever things:

use Want;
use strict;
sub backstr :lvalue {
    if (want(qw'LVALUE ASSIGN')) {
        my ($a) = want('ASSIGN');
        $_[0] = reverse $a;
        lreturn;
    }
    elsif (want('RVALUE')) {
        return scalar reverse $_[0];
    }
    else {
        carp("Not in ASSIGN context");
    }
    return
}

print "foo -> ", backstr("foo"), "\n";# foo -> oof
backstr(my $robin) = "nibor";
print "$robin is now $robin\n";# $robin is now robin

Notice that you need to put a (meaningless) return statement at the end of the function, otherwise you will get the error I<Can't modify non-lvalue subroutine call in lvalue subroutine return>.

The only way to write that C<backstr> function without using Want is to return a tied variable which is tied to a custom class.

=head2 Reference context:
Sometimes in scalar context the caller is expecting a reference of some sort to be returned:

```perl
print foo()->();  # CODE reference expected
print foo()->{bar};  # HASH reference expected
print foo()->[23];  # ARRAY reference expected
print ${foo()};   # SCALAR reference expected
print foo()->bar();  # OBJECT reference expected
```

```perl
my $format = *{foo()}{FORMAT} # GLOB reference expected
```

You can check this using conditionals like `want('CODE')`. There is also a function `wantref()` which returns one of the strings "CODE", "HASH", "ARRAY", "GLOB", "SCALAR" or "OBJECT"; or the empty string if a reference is not expected.

Because `want('SCALAR')` is already used to select ordinary scalar context, you have to use `want('REFSCALAR')` to find out if a SCALAR reference is expected. Or you could use `want('REF') eq 'SCALAR'` of course.

Be warned that `want('ARRAY')` is a very different thing from `wantarray()`.

=head2 Item count

Sometimes in list context the caller is expecting a particular number of items to be returned:

```perl
my ($x, $y) = foo();   # foo is expected to return two items
```

If you pass a number to the `want` function, then it will return true or false according to whether at least that many items are wanted. So if we are in the definition of a sub which is being called as above, then:

```perl
want(1) returns true
want(2) returns true
want(3) returns false
```

Sometimes there is no limit to the number of items that might be used:

```perl
my @x = foo();
do_something_with( foo() );
```

In this case, `want(2)`, `want(100)`, `want(1E9)` and so on will all return true; and so will `want('Infinity')`.

The `howmany` function can be used to find out how many items are wanted. If the context is scalar, then `want(1)` returns true and `howmany()` returns 1. If you want to check whether your result is being assigned to a singleton
list, you can say C<if (want('LIST', 1)) { ... }>>.

=head2 Boolean context

Sometimes the caller is only interested in the truth or falsity of a function's return value:

```perl
if (everything_is_okay()) {
    # Carry on
}
```

```perl
print (foo() ? "ok
" : "not ok
");
```

In the following example, all subroutine calls are in BOOL context:

```perl
my $x = ( (foo() && !bar()) xor (baz() || quux()) );
```

Boolean context, like the reference contexts above, is considered to be a subcontext of SCALAR.

=head1 FUNCTIONS

=over 4

=item want(SPECIFIERS)

This is the primary interface to this module, and should suffice for most purposes. You pass it a list of context specifiers, and the return value is true whenever all of the specifiers hold.

```perl
want('LVALUE', 'SCALAR');   # Are we in scalar lvalue context?
want('RVALUE', 3);          # Are at least three rvalues wanted?
want('ARRAY');             # Is the return value used as an array ref?
```

You can also prefix a specifier with an exclamation mark to indicate that you don't want it to be true

```perl
want(2, '!3');            # Caller wants exactly two items.
want(qw'REF !CODE !GLOB'); # Expecting a reference that isn't a CODE or GLOB ref.
want(100, '!Infinity');   # Expecting at least 100 items, but there is a limit.
```

If the I<REF> keyword is the only parameter passed, then the type of reference will be returned. This is just a synonym for the C<wantref> function: it's included because you might find it useful if you don't want to pollute your namespace by importing several functions, and to conform to Damian Conway's suggestion in RFC 21.
Finally, the keyword I<COUNT> can be used, provided that it's the only keyword you pass. Mixing COUNT with other keywords is an error. This is a synonym for the C<howmany> function.

A full list of the permitted keyword is in the B<ARGUMENTS> section below.

=item rreturn

Use this function instead of C<return> from inside an lvalue subroutine when you know that you're in RVALUE context. If you try to use a normal C<return>, you'll get a compile-time error in Perl 5.6.1 and above unless you return an lvalue. (Note: this is no longer true in Perl 5.16, where an ordinary return will once again work.)

=item lnoreturn

Use this function instead of C<return> from inside an lvalue subroutine when you're in ASSIGN context and you've used C<want('ASSIGN')> to carry out the appropriate action.

If you use C<rreturn> or C<lnoreturn>, then you have to put a bare C<return;> at the very end of your lvalue subroutine, in order to stop the Perl compiler from complaining. Think of it as akin to the C<1;> that you have to put at the end of a module. (Note: this is no longer true in Perl 5.16.)

=item howmany()

Returns the I<expectation count>, i.e. the number of items expected. If the expectation count is undefined, that indicates that an unlimited number of items might be used (e.g. the return value is being assigned to an array). In void context the expectation count is zero, and in scalar context it is one.

The same as C<want('COUNT')>.

=item wantref()

Returns the type of reference which the caller is expecting, or the empty string if the caller isn't expecting a reference immediately.

The same as C<want('REF')>.

=back

=head1 EXAMPLES

use Carp 'croak';
use Want 'howmany';
sub numbers {
  my $count = howmany();
  croak("Can't make an infinite list") if !defined($count);
  return (1..$count);
}
my ($one, $two, $three) = numbers();

use Want 'want';
sub pi () {
  if    (want('ARRAY')) {
    return [3, 1, 4, 1, 5, 9];
  }
  elsif (want('LIST')) {
    return (3, 1, 4, 1, 5, 9);
  }
  else { return 3;
  }
  print pi->[2];# prints 4
  print ((pi)[3]);# prints 1
}

=head1 ARGUMENTS

The permitted arguments to the C<want> function are listed below.
The list is structured so that sub-contexts appear below the context that they
are part of.

=over 4

=item *
VOID

=item *
SCALAR

=over 4

=item *
REF

=over 4
=item *

REFSCALAR

=itm *

CODE

=itm *

HASH

=itm *

ARRAY

=itm *

GLOB

=itm *

OBJECT

=back

=itm *

BOOL

=back

=itm *

LIST

=over 4

=itm *

COUNT

=itm *

E<lt>numberE<gt>

=itm *
Infinity
=back
=item *
LVALUE
=over 4
=item *
ASSIGN
=back
=item *
RVALUE
=back
=head1 EXPORT
The C<want> and C<rreturn> functions are exported by default. The C<wantref> and/or C<howmany> functions can also be imported:

use Want qw'want howmany';

If you don't import these functions, you must qualify their names as (e.g.) C<Want::wantref>.

=head1 INTERFACE
This module is still under development, and the public interface may change in future versions. The C<want> function can now be regarded as stable.

I'd be interested to know how you're using this module.

=head1 SUBTLETIES
There are two different levels of B<BOOL> context. I<Pure> boolean context occurs in conditional expressions, and the operands of the C<xor> and C<!>/C<not> operators. Pure boolean context also propagates down through the C<&&> and C<||> operators.

However, consider an expression like C<my $x = foo() && "yes">. The subroutine is called in I<pseudo>-boolean context - its return value isn't B<entirely>
ignored, because the undefined value, the empty string and the integer 0 are all false.

At the moment C<want('BOOL')> is true in either pure or pseudo boolean context. Let me know if this is a problem.

=head1 BUGS

* Doesn't work from inside a tie-handler.

=head1 AUTHOR

Robin Houston, E<lt>robin@cpan.orgE<gt>

Thanks to Damian Conway for encouragement and good suggestions, and Father Chrysostomos for a patch.

=head1 SEE ALSO

=over 4

=item *

L<perlfunc/wantarray>

=item *

Perl6 RFC 21, by Damian Conway.
http://dev.perl.org/rfc/21.html

=back

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---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Want
no_index:
directory:
  - t
  - inc
requires: {}
version: 0.26

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| Want v0.26    - Robin Houston, 2015-04-28
|-----------------------------------------------------------------------------

For full documentation, see the POD included with the module.
Below is a brief extract of the documentation, to give you an idea of what this module does. It requires Perl version 5.6 or later.

NAME

Want - Implement the `want' command

SYNOPSIS

use Want;
sub foo :lvalue {
  if (want(qw'LVALUE ASSIGN')) {
    print "We have been assigned ", want('ASSIGN');
    noreturn;
  }
  elsif (want('LIST')) {
    return (1, 2, 3);
  }
  elsif (want('BOOL')) {
    return 0;
  }
elsif (want(qw'SCALAR !REF')) {
    return 23;
}
elserif (want('HASH')) {
    return { foo => 17, bar => 23 };}
return

DESCRIPTION
This module generalises the mechanism of the wantarray function, allowing a function to determine in some detail how its return value is going to be immediately used.

EXAMPLES

use Carp 'croak';
use Want 'howmany';
sub numbers {
    my $count = howmany();
croak("Can't make an infinite list") if !defined($count);
return (1..$count);
}
my ($one, $two, $three) = numbers();

use Want 'want';
sub pi () {
    if    (want('ARRAY')) {
        return [3, 1, 4, 1, 5, 9];
    }
elserif (want('LIST')) {
        return (3, 1, 4, 1, 5, 9);
    }
else {
        return 3;
    }
}
print pi->[2];  # prints 4
print ((pi)[3]);  # prints 1

use Want;
use strict;
sub backstr :lvalue {
    if (want(qw'LVALUE ASSIGN')) {

my ($a) = want('ASSIGN');
$_[0] = reverse $a;
Inoreturn;
}
eelsif (want('RVALUE')) {
    return scalar reverse $_[0];
}
else {
    carp("Not in ASSIGN context");
}
return
}

print "foo -> ", backstr("foo"), ",\n";# foo -> oof
backstr(my $robin) = "nibor";
print "\n$robin is now $robin\n".# $robin is now robin

AUTHOR
Robin Houston, <robin@cpan.org>

Thanks to Damian Conway for encouragement and good
suggestions, and to Father Chrysostomos and Matthew
Horsfall for patches.

SEE ALSO
  o  the wantarray entry in the perlfunc manpage
  
  o  Perl6 RFC 21, by Damian Conway.
      http://dev.perl.org/rfc/21.html

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* /opt/ws_local/PERMITS_SQL/1018348650_1594201443.65/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java
* /opt/ws_local/PERMITS_SQL/1018348650_1594201443.65/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/GlobalTracer.java

1.757 six 1.10.0
1.757.1 Available under license:
The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/AclPermissionEvaluator.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/domain/DefaultPermissionFactory.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/domain/PermissionFactory.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/domain/AbstractPermission.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/domain/DefaultPermissionGrantingStrategy.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/domain/package-info.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/model/package-info.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/model/AclDataAccessException.java
* /opt/cola/permits/1144945777_1633499433.93/0/spring-security-acl-4-2-12-release-sources-2-
  jar/org/springframework/security/acls/model/ObjectIdentityGenerator.java
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* /opt/ws_local/PERMITS_SQL/1030681728_1591846234.54/0/parso-2-0-11-sources-jar/com/epam/parso/CSVDataWriter.java
* /opt/ws_local/PERMITS_SQL/1030681728_1591846234.54/0/parso-2-0-11-sources-jar/com/epam/parso/CSVMetadataWriter.java
* /opt/ws_local/PERMITS_SQL/1030681728_1591846234.54/0/parso-2-0-11-sources-jar/com/epam/parso/impl/ParserMessageConstants.java
* /opt/ws_local/PERMITS_SQL/1030681728_1591846234.54/0/parso-2-0-11-sources-jar/com/epam/parso/Column.java

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1.760 zlib 1.0.9

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/* uncompr.c -- decompress a memory buffer
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/uncompr.c
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/* zutil.c -- target dependent utility functions for the compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
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/* zutil.h -- internal interface and configuration of the compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */

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/* example.c -- usage example of the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1.0-9-tar-gz/zlib-1.0.9/example.c
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/* inftrees.c -- generate Huffman trees for efficient decoding
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* crc32.c -- compute the CRC-32 of a data stream
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1.0-9-tar-gz/zlib-1.0.9/crc32.c
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/* adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-1998 Mark Adler
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 */

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/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */

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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1.0-9-tar-gz/zlib-1.0.9/deflate.c
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/* infcodes.c -- process literals and length/distance pairs
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* minigzip.c -- simulate gzip using the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.0.9, Feb 16th, 1998

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

Found in path(s):
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/* inffast.c -- process literals and length/distance pairs fast
 * Copyright (C) 1995-1998 Mark Adler
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/* infblock.h -- header to use infblock.c
 * Copyright (C) 1995-1998 Mark Adler
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/infblock.h
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/* inftrees.h -- header to use inftrees.c
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/* zconf.h -- configuration of the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */

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/* infutil.h -- types and macros common to blocks and codes
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 */

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/* infblock.c -- interpret and process block types to last block
 * Copyright (C) 1995-1998 Mark Adler
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 */

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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1.0-9-tar-gz/zlib-1.0.9/infblock.c
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/* trees.c -- output deflated data using Huffman coding
 * Copyright (C) 1995-1998 Jean-loup Gailly
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 */

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/* inflate.c -- zlib interface to inflate modules
* Copyright (C) 1995-1998 Mark Adler
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*/

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/* gzio.c -- IO on .gz files
* Copyright (C) 1995-1998 Jean-loup Gailly.
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*
* Compile this file with -DNO_DEFLATE to avoid the compression code.
*/

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/* deflate.h -- internal compression state
* Copyright (C) 1995-1998 Jean-loup Gailly
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*/

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zlib 1.0.9 is a general purpose data compression library. All the code
is thread safe. The data format used by the zlib library
is described by RFCs (Request for Comments) 1950 to 1952 in the files
ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate
format) and rfc1952.txt (gzip format). These documents are also available in
other formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact jloup@gzip.org). A usage
example of the library is given in the file example.c which also tests that
the library is working correctly. Another example is given in the file
minigzip.c. The compression library itself is composed of all source files
except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions
given at the top of Makefile. In short "make test; make install"
should work for most machines. For MSDOS, use one of the special
makefiles such as Makefile.msc; for VMS, use Make_vms.com or descrip.mms.

Questions about zlib should be sent to <zlib@quest.jpl.nasa.gov> or,
if this fails, to the addresses given below in the Copyright section. The zlib home page is http://www.cdrom.com/pub/infozip/zlib/
The official zlib ftp site is ftp://ftp.cdrom.com/pub/infozip/zlib/
Mark Nelson wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available in http://web2.airmail.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.0.9 are documented in the file ChangeLog. The main changes since 1.0.8 are:

- added gzputs and gzgets functions
- do not clear eof flag in gzseek (Mark Diekhans)
- fix gzseek for files in transparent mode (Mark Diekhans)
- do not assume that vsprintf returns the number of bytes written (Jens Krinke)
- replace EXPORT with ZEXPORT to avoid conflict with other programs
- added compress2 in zconf.h, zlib.def, zlib.dnt
- new asm code from Gilles Vollant in contrib/asm386
- simplify the inflate code (Mark):
  . Replace ZALLOC's in huft_build() with single ZALLOC in inflate_blocks_new()
  . ZALLOC the length list in inflate_trees_fixed() instead of using stack
  . ZALLOC the value area for huft_build() instead of using stack
  . Simplify Z_FINISH check in inflate()

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit 1.1 http://www.javasoft.com/products/JDK/1.1/docs/api/Package-java.util.zip.html See the zlib home page http://www.cdrom.com/pub/infozip/zlib/ for details.

A Perl interface to zlib written by Paul Marquess <pmarquess@bfsec.bt.co.uk> is in the CPAN (Comprehensive Perl Archive Network) sites, such as: ftp://ftp.cis.ufl.edu/pub/perl/CPAN/modules/by-module/Compress/Compress-Zlib*

A Python interface to zlib written by A.M. Kuchling <amk@magnet.com> is available from the Python Software Association sites, such as: ftp://ftp.python.org/pub/python/contrib/Encoding/zlib*.tar.gz

Notes for some targets:

- To build a Windows DLL version, include in a DLL project zlib.def, zlib.rc and all .c files except example.c and minigzip.c; compile with -DZLIB_DLL. The zlib DLL support was initially done by Alessandro Iacopetti and is now maintained by Gilles Vollant <info@winimage.com>. Check the zlib DLL home page at http://www.winimage.com/zLibDll

From Visual Basic, you can call the DLL functions which do not take a structure as argument: compress, uncompress and all gz* functions.
See contrib/visual-basic.txt for more information.
I don’t know how to handle structures in Visual Basic, sorry.

- For 64-bit Irix, deflate.c must be compiled without any optimization.
  With -O, one libpng test fails. The test works in 32 bit mode (with
  the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn’t work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1
  it works when compiled with cc.

- zlib doesn’t work on HP-UX 9.05 with some versions of /bin/cc. It works
  with other compilers. Use "make test" to check your compiler.

- For shared memory multiprocessors, the decompression code assumes that
  writes to pointers are atomic. Also the functions zalloc and zfree passed
  to deflateInit must be multi-threaded in this case.

- gzopen is not supported on RISCOS, BEOS and Mac

- For Turbo C the small model is supported only with reduced performance to
  avoid any far allocation; it was tested with -DMAX_WBITS=11 -DMAX_MEM_LEVEL=3

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate
and zlib specifications were written by Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib;
they are too numerous to cite here.

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If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes.

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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/README

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 */

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1.761 bzip2 1.0.8-4

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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}

uriparser - RFC 3986 URI parsing library

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*
* Abstract: The main routine
*
*/

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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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
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and 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>

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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:template>
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
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/**
** XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
* <p>The XSLT Source object is supplied as a parameter in the model and then
* by locating the Source object. Users can either specify
* a specific entry in the model via the @link setSourceKey() sourceKey @link
* property or have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See @link getSourceTypes() here
* for more details.
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure @link setOutputProperties() output properties
* to be passed to the Transformer.
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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   * to provide data integrity, confidentiality, protection against cross-site
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   */
* adding a hidden field to all forms and URLs.
*
* View technologies that support this contract can obtain an instance to
delegate to via {@link RequestContext#getRequestDataValueProcessor()}
* @author Rossen Stoyanchev
* @since 3.1
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/HandlerAdapter.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java

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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/view/jasperreports/ConfigurableJasperReportsView.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesView.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/SpringControllerViewResolver.java
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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java
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1.776 libencode-locale-perl 1.05-1

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Encode-Locale
==============

The purpose of this Perl module is to 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)" failures);
    binmode(STDOUT, "::encoding(console_out)" failures);
    binmode(STDERR, "::encoding(console_out)" failures);
}
# 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:

=over

=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

=over
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.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale”.

=item $ENCODING_LOCALE_FS
The encoding name determined to be suitable for file system interfaces involving file names.
L<Encode> know this encoding as "locale_fs".

=item SENCODING_CONSOLE_IN

=item SENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console.
L<Encode> know these encodings as "console_in" and "console_out".

=head1 NOTES

This table summarizes the mapping of the encodings set up by the C<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>
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<tr>
<td>console_in</td>
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<td>console_out</td>
<td>OEM</td>
<td>nl_langinfo</td>
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<td></td>
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</tbody>
</table>

=head2 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 SENCODING_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>

=head1 AUTHOR

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1.777 junit4-ant 2.7.2

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/**
 * Last resort memory pool released under low memory conditions.
 * This is not a solution, it's a terrible hack. I know this. Everyone knows this.
 * Even monkeys in Madagascar know this. If you know a better solution, patches
 * welcome.
 * *
 * <p>Approximately 5mb is reserved. Really, smaller values don't make any difference
 * and the JVM fails to even return the status passed to Runtime.halt().
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1.778 jctools-core 3.0.0

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1.779 libmnl 1.0.3 5

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libmnl
Upstream-Contact: Pablo Neira Ayuso <pablo@netfilter.org>
Source: http://www.netfilter.org/projects/libmnl/files

Files: *
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1.784 powermock-api-mockito 1.6.2

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// Modifications by Joshua Bell inexorabletash@gmail.com
//  https://github.com/inexorabletash/polyfill
// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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# spdx-license-ids


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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/getting-started/what-is-npm):

```javascript
npm install spdx-license-ids
```  

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...
```

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: `Array<string>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
```
AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true

```
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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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)'),
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
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);

1.790 libexporter-lite-perl 0.08-1

1.790.1 Available under license:
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0.34'
configure_requires:
  ExtUtils::MakeMaker: '6.3'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Exporter-Lite
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  perl: '5.006'
  strict: '0'
  warnings: '0'
resources:
  repository: https://github.com/neilb/Exporter-Lite.git
  version: '0.08'
x_serialization_backend: 'CPAN::Meta::YAML version 0.016'

Found in path(s):
* /opt/cola/permits/1144946302_1633499386.41/0/libexporter-lite-perl-0-08-orig-1-tar-gz/Exporter-Lite-0.08/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Exporter::Lite - lightweight exporting of functions and variables
=head1 SYNOPSIS

package Foo;
use Exporter::Lite;

our @EXPORT = qw($This That);  # default exports
our @EXPORT_OK = qw(@Left %Right);  # optional exports

Then in code using the module:

use Foo;
# $This and &That are imported here

You have to explicitly ask for optional exports:

use Foo qw/ @Left %Right /;

=head1 DESCRIPTION

Exporter::Lite is an alternative to L<Exporter>,
intended to provide a lightweight subset
of the most commonly-used functionality.
It supports C<import()>, C<@EXPORT> and
C<@EXPORT_OK> and not a whole lot else.

Unlike Exporter, it is not necessary to inherit from Exporter::Lite;
Ie you don't need to write:

@ISA = qw(Exporter::Lite);

Exporter::Lite simply exports its import() function into your namespace.
This might be called a "mix-in" or a "role".

Setting up a module to export its variables and functions is simple:

    package My::Module;
    use Exporter::Lite;

    our @EXPORT = qw($Foo bar);

Functions and variables listed in the C<@EXPORT> package variable
are automatically exported if you use the module and don't explicitly
list any imports.
Now, when you C<use My::Module>, C<$Foo> and C<bar()> will show up.

Optional exports are listed in the C<@EXPORT_OK> package variable:
package My::Module;
use Exporter::Lite;

our @EXPORT_OK = qw($Foo bar);

When My::Module is used, C<$Foo> and C<bar()> will I<not> show up, unless you explicitly ask for them:

use My::Module qw($Foo bar);

Note that when you specify one or more functions or variables to import, then you must also explicitly list any of the default symbols you want to use. So if you have an exporting module:

package Games;
our @EXPORT    = qw/pacman defender/;
our @EXPORT_OK = qw/galaga centipede/;

Then if you want to use both C<pacman> and C<galaga>, then you'd write:

use Games qw/pacman galaga/;

=head1 Methods

Export::Lite has one public method, import(), which is called automatically when your modules is use()'d.

In normal usage you don't have to worry about this at all.

=over 4

=item B<import>

Some::Module->import;
Some::Module->import(@symbols);

Works just like C<Exporter::import()> excepting it only honors @Some::Module::EXPORT and @Some::Module::EXPORT_OK.

The given @symbols are exported to the current package provided they are in @Some::Module::EXPORT or @Some::Module::EXPORT_OK. Otherwise an exception is thrown (ie. the program dies).

If @symbols is not given, everything in @Some::Module::EXPORT is exported.

=back
=head1 DIAGNOSTICS

=over 4

=item "%s" is not exported by the %s module'

Attempted to import a symbol which is not in @EXPORT or @EXPORT_OK.

=item 'Can\'t export symbol: %s'

Attempted to import a symbol of an unknown type (ie. the leading $@% salad wasn't recognized).

=back

=head1 SEE ALSO

L<Exporter> is the grandaddy of all Exporter modules, and bundled with Perl itself, unlike the rest of the modules listed here.

L<Attribute::Exporter> defines attributes which you use to mark which subs and variables you want to export, and how.

L<Exporter::Simple> also uses attributes to control the export of functions and variables from your module.

L<Const::Exporter> makes it easy to create a module that exports constants.

L<Constant::Exporter> is another module that makes it easy to create modules that define and export constants.

L<Sub::Exporter> is a "sophisticated exporter for custom-built routines"; it lets you provide generators that can be used to customise what gets imported when someone uses your module.

L<Exporter::Tiny> provides the same features as L<Sub::Exporter>, but relying only on core dependencies.

L<Exporter::Shiny> is a shortcut for L<Exporter::Tiny> that provides a more concise notation for providing optional exports.

L<Exporter::Declare> provides syntactic sugar to make the export status of your functions part of their declaration. Kind of.

L<AppConfig::Exporter> lets you export part of an L<AppConfig>-based configuration.
L<Exporter::Lexical> lets you export lexical subs from your module.

L<Constant::Export::Lazy> lets you write a module that exports function-style constants, which are instantiated lazily.

L<Exporter::Auto> will export everything from your module that it thinks is a public function (name doesn't start with an underscore).

L<Class::Exporter> lets you export class methods as regular subroutines.

L<Xporter> is like Exporter, but with persistent defaults and auto-ISA.

=head1 REPOSITORY

L<https://github.com/neilb/Exporter-Lite>

=head1 AUTHORS

Michael G Schwern <schwern@pobox.com>

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=cut

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1.791 jersey-common 2.28

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## Source Code

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* https://github.com/eclipse-ee4j/jersey

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Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ===============

Installing and Using Setuptools

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`
\Change History <https://pythonhosted.org/setuptools/history.html>`_.

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Installation Instructions

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x`<https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_.

The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)

-------------------------
For best results, uninstall previous versions FIRST (see 'Uninstalling').

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up PowerShell and paste this command::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the PowerShell with Administrative privileges or you may choose to install a user-local installation::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python --user
```

If you have Python 3.3 or later, you can use the ``py`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `\$env:APPDATA\Python\Scripts`.

**Windows (simplified)**

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and run that file.

**Unix (wget)**

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```
Note that you will may need to invoke the command with superuser privileges to install to the system Python::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python

Alternatively, Setuptools may be installed to a user-local path::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | python --user

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter them, install Setuptools as follows::

> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure

Unix including Mac OS X (curl)
================================

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `--o`. For example::

> curl https://bootstrap.pypa.io/ez_setup.py -o - | python

Advanced Installation
=======================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_ and run setup.py with any supported distutils and Setuptools options. For example::

setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially `the section on custom installation locations`_.

```
Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`_, and in-development versions of the `0.6 branch`_ are available as well.

Uninstalling
============

On Windows, if Setuptools was installed using an `.exe` or `.msi` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_
Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setup tools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
-------

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation,
and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

-------------
Code of Conduct
-------------

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7.0-1.tar.gz/setuptools-20.7.0/PKG-INFO
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7.0-1.tar.gz/setuptools-20.7.0/setuptools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# The above copyright notice and this permission notice shall be
Building and Distributing Packages with Setuptools

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not
a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and
  still work even when the end-user doesn't have Pyrex installed (as long as
  you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
  names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on
  `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and
  distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover
  extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools`
and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

Developer's Guide

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Installing `setuptools`

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

Please follow the `EasyInstall Installation Instructions` to install the
current stable version of setuptools. In particular, be sure to read the
section on `Custom Installation Locations` if you are installing anywhere
other than Python's `site-packages` directory.
If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```python
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use
=========  

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

```bash
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
)
In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4c1`` is *newer* than revision ``2.4c1``,
which in turn is newer than `"2.4b1"` or `"2.4a1"`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `"2.4-1"` and `"2.4pl3"` are newer than `"2.4"`, but are *older* than `"2.4.1"` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `"alpha"`, `"beta"`, `"a"`, `"c"`, `"dev"`, and so on. You do not have to place a dot or dash before the prerelease tag if it’s immediately after a number, but it’s okay to do so if you prefer. Thus, `"2.4c1"` and `"2.4c.1"` and `"2.4-c1"` all represent release candidate 1 of version `"2.4"`, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter `"c"`: `"pre"`, `"preview"`, and `"rc"`. So, version `"2.4rc1"`, `"2.4pre1"` and `"2.4preview1"` are all the exact same version as `"2.4c1"`, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("-"). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version `"2.4-r1263"` might denote Subversion revision 1263 of a post-release patch of version `"2.4"`. Or you might use `"2.4-20051127"` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, `"0.6a9.dev-r41475"` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that `"dev"` is a pre-release tag, so this version is a *lower* version number than `"0.6a9"`, which would be the actual ninth alpha of release 0.6. But the `"-r41475"` is a post-release tag, so this version is *newer* than `"0.6a9.dev"`.

For the most part, setuptools’ interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version `"1.9adev"` is the "adev" prerelease of `"1.9"`, *not* a development pre-release of `"1.9a"`. Use "dev" instead, as in `"1.9a.dev"`, or separate the prerelease tags with a number, as in `"1.9a0dev"`, `"1.9a.dev"`, "1.9a0dev"`, and even `"1.9.a.dev"` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `"pkg_resources.parse_version()"` function to compare different version numbers::
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`
* `Managing "Continuous Releases" Using Subversion`
* The `egg_info` command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by setuptools. All of them are optional; you do not have to supply them unless you need the associated setuptools feature.

``include_package_data``
If set to `True`, this tells setuptools to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on Including Data Files.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be excluded from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on Including Data Files.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on Including Data Files. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be
safely installed and run from a zip file. If this argument is not
supplied, the `bdist_egg` command will have to analyze all of your
project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to
be installed when this one is. See the section below on 'Declaring
Dependencies' for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings
defining the entry points. Entry points are used to support dynamic
discovery of services or plugins provided by a project. See 'Dynamic
Discovery of Services and Plugins' for details and examples of the format
of this argument. In addition, this keyword is used to support 'Automatic
Script Creation'.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project)
to strings or lists of strings specifying what other distributions must be
installed to support those features. See the section below on 'Declaring
Dependencies' for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to
be present in order for the *setup script* to run. ``setuptools`` will
attempt to obtain these (even going so far as to download them using
`EasyInstall`) before processing the rest of the setup script or commands.
This argument is needed if you are using distutils extensions as part of
your build process; for example, extensions that process setup() arguments
and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically
installed on the system where the setup script is being run. They are
simply downloaded to the `.eggs` directory if they're not locally available
already. If you want them to be installed, as well as being available
when the setup script is run, you should add them to `install_requires`
**and** `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies.
These links will be used if needed to install packages specified by
``setup_requires`` or `tests_require`. They will also be written into
the egg's metadata for use by tools like EasyInstall to use when installing
an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace
package is a package that may be split across multiple project distributions. For example, Zope 3's "zope" package is a namespace package, because subpackages like "zope.interface" and "zope.publisher" may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's "__init__.py" does not contain any code other than a namespace declaration. See the section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an "additional_tests()" function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:
``test_loader``
If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the 'names' argument: the value supplied for the "test_suite" argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a "test_suite" string.

The module name and class name must be separated by a `:`. The default
value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `"foo.png"` in package `"bar.baz"`, you would include the string `"bar/baz/foo.png"` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction``.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using `find_packages()`

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to
the same
directory as the setup script. Some projects use a `"src"` or `"lib"

directory as the root of their source tree, and those projects would of course
use `"src"` or `"lib"` as the first argument to `find_packages()`. (And
such projects also need something like `"package_dir = {'':'src'}"` in their
`setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion
patterns, and finds Python packages (any directory). On Python 3.2 and
earlier, packages are only recognized if they include an `"__init__.py"` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including
wildcards. For
example, `find_packages(exclude=['*.tests'])` will exclude all packages whose
last name part is `"tests"`. Or, `find_packages(exclude=['*.tests',
"*.tests.*"])` will also exclude any subpackages of packages named `"tests"`,
but it still won't exclude a top-level `"tests"` package or the children
thereof. In fact, if you really want no `"tests"` packages at all, you'll need
something like this:

    find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])

in order to cover all the bases. Really, the exclusion patterns are intended
to cover simpler use cases than this, like excluding a single, specified
package and its subpackages.

Regardless of the parameters, the `find_packages()`
function returns a list of package names suitable for use as the `packages`
argument to `setup()`, and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual "main"
is a function in a module somewhere. And even in Python 2.4, using the `"-m"`
option only works for actual `".py"` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their `"PATHEXT"` settings.
The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on `Declaring Extras`. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`.

"Eggsecutable" Scripts

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

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
```
'setuptools.installation': [
    'eggsecutable = my_package.some_module:main_func',
  ]
}
)

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

**IMPORTANT NOTE:** Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the ``.egg`` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and ``pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `"<"`, `">"`, `"<="`, `">=\`", `"==\`", `"!=\`", or `"!="`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `\``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2,<3"` becomes `"<3"`). `"!=\`` versions are excised from the ranges they fall within. A project's version is then checked for
membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
    ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`).

Dependencies that aren't in PyPI

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

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project.

You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single ``.py`` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
`vcs+proto://host/path@revision#egg=project-version`
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.
The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(
    ...
    dependency_links=[
        "http://peak.telecommunity.com/snapshots/
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)
----------------------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let’s say that Project A offers optional PDF and reST support:

```python
setup(
    name="Project-A",
    ...
    extras_require={
        'PDF': ['ReportLab>=1.2', 'RXP'],
        'reST': ['docutils>=0.3'],
    }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might
declare it like this, so that the "PDF" requirements are only resolved if the
"rst2pdf" script is run:

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies.
For example, if project B needs "project A" with PDF support installed, it
might declare the dependency like this:

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is
installed -- even if project A was already installed. In this way, a project
can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream
dependencies are. If a later version of Project A builds in PDF support and
no longer needs ReportLab, or if it ends up needing other dependencies besides
ReportLab in order to provide PDF support, Project B's setup information does
not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to
support a feature, it should keep an empty requirements list for that feature
in its "extras_require" argument, so that packages depending on that feature
don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its
setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
so that Package B doesn't have to remove the ```[PDF]``` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ```include_package_data``` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils```MANIFEST.in``` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ```package_data``` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        
        # If any package contains *.txt or *.rst files, include them:
        
        
        # And include any *.msg files found in the 'hello' package, too:
        
        
    }
)
```

The ```package_data``` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data
files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
ssetup.py
src/
mypkg/
    __init__.py
    mypkg.txt
data/
    somefile.dat
    otherdata.dat
```

The setuptools setup file might look like this:

```
from setuptools import setup, find_packages
setup(
    ...  # remaining setup options
    packages = find_packages('src'), # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src
    package_data = {
        # If any package contains *.txt files, include them:
        ': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in setuptools, it was also added to the Python distutils package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone
aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src
    include_package_data = True,  # include everything in source control
    ...
    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

```
include_package_data``
Accept all data files and directories matched by `MANIFEST.in`.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

**NOTE:** Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.
Accessing Data Files at Runtime
---------------------------------

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the 'Resource Management API' of 'pkg_resources' to access them. The 'pkg_resources' module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for a quick example of converting code that uses ``__file__`` to use 'pkg_resources' instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The 'distutils' normally install general "data files" to a platform-specific location (e.g. "/usr/share"). This feature intended to be used for things like documentation, example configuration files, and the like. 'setuptools' does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the 'Resource Management API', by specifying a 'Requirement' instead of a package name::

    from pkg_resources import Requirement, resource_filename
    filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use 'resource_filename()' with the directory name to get a filesystem directory that then can be copied with the 'shutil' module. (Even if your package is installed as a zipfile, calling 'resource_filename()' on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your
data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setupools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks

---

.. _Entry Points:
Dynamic Discovery of Services and Plugins
-----------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs into an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool:

```python
setup(
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```
The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
-----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
-------------------

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's
code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ``setuptools``-based project
Using `setuptools`... Without bundling it!

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

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

.. code-block:: python

```python
import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know

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

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to "site-packages", that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and `easy_install`.

Open Source Used In Virtual Topology System 2.6.7 8729
Network Access
If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g., most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not
just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``! Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and ``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ``install`` command, it should be able to work with ``setuptools``. Some examples of "bdist" formats that this should work with include the ``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command` documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the "zip_safe" flag
-----------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's "zip_safe" flag.

You can pass a True or False value for the "zip_safe" argument to the `setup()` function, or you can omit it. If you omit it, the "bdist_egg" command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just
means that the "bdist_egg" authors aren't yet comfortable asserting that
the project *will* work. If the project contains no C or data files, and does
no ``__file__`` or ``__path__`` introspection or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses ``pkg_resources`` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime` section above for more information.)

However, if "bdist_egg" can't be *sure* that your package will work, but
you've checked over all the warnings it issued, and you are either satisfied it
*will* work (or if you want to try it for yourself), then you should set
``zip_safe`` to ``True`` in your "setup()" call. If it turns out that it
doesn't work, you can always change it to ``False``, which will force
``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using
EasyInstall to install your package. And, if you want to override for testing
purposes, you can just run "setup.py easy_install --zip-ok ." or "setup.py
easy_install --always-unzip ." in your project directory. to install the
package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become
more satisfied with the robustness of the "pkg_resources" runtime, the
"zip safety" analysis may become less conservative. However, we strongly
recommend that you determine for yourself whether your project functions
correctly when installed as a zipfile, correct any problems if you can, and
then make an explicit declaration of "True" or "False" for the "zip_safe"
flag, so that it will not be necessary for "bdist_egg" or "EasyInstall" to
try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of
smaller eggs. However, Python does not normally allow the contents of a
package to be retrieved from more than one location. "Namespace packages"
are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
``__init__.py``, and that it is merely a container for modules and subpackages.

The "pkg_resources" runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The "namespace_packages" argument to "setup()" lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

```python
setup(
    # ...
    namespace_packages = ['zope'],
)
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line:

```python
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also
the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

### Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)  

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)  

* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag  

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on...
Specifying Your Project's Version for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
--------------------------------

`setuptools` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `MANIFEST.in` file. See the section below on "Adding Support for Revision Control Systems" for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file.
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
all practical purposes, you'll probably use only the ``--formats`` option, if
you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the `register` command. There
are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links.

``long_description``
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or
``#egg=project-version`` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.
So, if your `"url` or `"download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `"#egg=project` or `"#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `"#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `"#egg=projectname-dev"`), so that users can do something like this:

```plaintext
easy_install --editable projectname==dev
```

in order to check out the in-development version of `"projectname``.

Managing "Continuous Releases" Using Subversion

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

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `"setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `"setuptools` to generate package version numbers like `"1.0a1.dev-r1263```, which will be considered to be an *older* release than `"1.0a1``. Thus, when you actually release `"1.0a1``; the entire egg infrastructure (including `"setuptools``, `"pkg_resources`` and EasyInstall) will know that `"1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `"setup.py`` should always be
the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

.. code-block:: python

    install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (``egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ``setup.py``, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex.
installed, and that your source releases will be similarly usable with or without Pyrex.

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

Command Reference
-----------------

.. _alias:
``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``. Where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options::

    setup.py alias --global-config daily egg_info --tag-svn-revision \
        --tag-build=development

Once the alias is defined, it can then be used with other setup commands, e.g.::

    setup.py daily bdist_egg    # generate a daily-build .egg file
    setup.py daily sdist       # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word ``daily`` were replaced with ``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when used.

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project
===================================================

This command generates a Python Egg (``.egg`` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to ``sys.path`` directly, or they can be placed in a directory on ``sys.path`` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (``.egg-info``) directory. If you have added any extra metadata files to the ``.egg-info`` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use ``bdist_egg`` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``

Set the directory where the ``.egg`` file will be placed. If you don't
supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`
Skip doing any "build" commands; just go straight to the install-and-compress phases.
.. _develop:

``develop`` - Deploy the project source in "Development Mode"
=============================================================================

This command allows you to deploy your project's source for use in one or more
"staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available
in the staging area(s), without needing to run a build or install step after
each change.

The `develop` command works by creating an `.egg-link` file (named for the
project) in the given staging area. If the staging area is Python's
`site-packages` directory, it also updates an `easy-install.pth` file so
that the project is on `sys.path` by default for all programs run using that
Python installation.

The `develop` command also installs wrapper scripts in the staging area (or
a separate directory, as specified) that will ensure the project's dependencies
are available on `sys.path` before running the project's source scripts.
And, it ensures that any missing project dependencies are available in the
staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i`
command to ensure any C extensions in the project have been built and are
up-to-date, and the `egg_info` command to ensure the project's metadata is
updated (so that the runtime and wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions,
you should rerun the `develop` command against all relevant staging areas to
keep the project's scripts, metadata and extensions up-to-date. Most other
kinds of changes to your project should not require any build operations or
rerunning `develop`, but keep in mind that even minor changes to the setup
script (e.g. changing an entry point definition) require you to re-run the
`develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that
they affect the project's dependencies as well as the project itself, so if you
have dependencies that need to be installed and you use `--exclude-scripts`
(for example), the dependencies' scripts will not be installed either! For
this reason, you may want to use EasyInstall to install the project's
dependencies before using the `develop` command, if you need finer control
over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `--d`
option to designate the staging area. The created `.egg-link` file will
be removed, if present and it is still pointing to the project directory.
The project directory will be removed from `easy-install.pth` if the
staging area is Python's "site-packages" directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the "--exclude-scripts" (aka "-x") option when you run "develop" to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents "develop" from adding an "easy-install.pth" entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use "pkg_resources.require()" to put it on "sys.path", or you are running a wrapper script generated by "setuptools" or EasyInstall. (In which case the wrapper script calls "require()" for you.)

Note that if you install to a directory other than "site-packages", this option is automatically in effect, because ".pth" files can only be used in "site-packages" (at least in Python 2.3 and 2.4). So, if you use the "--install-dir" or "-d" option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the "site-packages" directory, but if you are using distutils configuration files, setting things like "prefix" or "install_lib", then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an "--install-dir" (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``

Force the generated ``.egg-link`` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy_install``. If you've configured any ``easy_install`` settings in your ``setup.cfg`` (or other distutils config files), the ``develop`` command will use them as defaults, unless you override them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
============================================

This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the ``easy_install`` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use ``easy_install`` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
===============================================

This command performs two operations: it updates a project's ``.egg-info`` metadata directory (used by the ``bdist_egg``, ``develop``, and ``test`` commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and
required by `pkg_resources`, this command can be extended to write other
metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to `setup()` in order to ensure that the desired
writers are available on `sys.path`.

Release Tagging Options

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

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``
Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number
to be considered *lower* than the project's default version. (If you
want to make the version number *higher* than the default version, you can
always leave off --tag-build and then use one or both of the following
options.)

If you have a default build tag set in your `setup.cfg`, you can suppress
it on the command line using `--tag=` as an argument
to the `egg_info` command.

``--tag-svn-revision, -r``
If the current directory is a Subversion checkout (i.e. has a `.svn`
subdirectory, this appends a string of the form ".rNNNN" to the project's
version string, where NNNN is the revision number of the most recent
modification to the current directory, as obtained from the `svn info`
command.

If the current directory is not a Subversion checkout, the command will
look for a "PKG-INFO" file instead, and try to find the revision number
from that, by looking for a "-rNNNN" string at the end of the version
number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no ``PKG-INFO`` file, or the version number contained therein does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `.egg-info` Options
--------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ``src`` or ``lib`` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the ``package_dir`` argument to the ``setup()`` function, if any. If there is no ``package_dir`` set, this option defaults to the current directory.

`.egg_info` Examples
---------------------
Creating a dated "nightly build" snapshot egg:

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in ``setup.cfg``:

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that ``egg_info`` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation

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

The setuptools ``install`` command is basically a shortcut to run the ``easy_install`` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``

This boolean option tells the ``install`` command to perform an "old style" installation, with the addition of an ``.egg-info`` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the ``--root`` or ``--record`` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm`` will create system packages of eggs. It is also automatically in effect if you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``

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

Setuptools runs this command as part of ``install`` operations that use the ``--single-version-externally-managed`` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the ``.egg-info`` directory will be placed.
Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. _rotate:

``rotate`` - Delete outdated distribution files

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and `*-*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``*.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::
Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the `--compiler` setting as the default for future builds (even those run implicitly by the `install` command):

```
setup.py build --compiler=mingw32 saveopts
```

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```
--global-config, -g
```

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `--u` or `--f`. 
``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
with ``--g`` or ``--f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't
combine this option with ``--g`` or ``--u``. Note that if you specify a
non-standard filename, the ``distutils`` and ``setuptools`` will not
use the file's contents. This option is mainly included for use in
testing.

These options are used by other ``setuptools`` commands that modify
configuration files, such as the `alias` and `setopt` commands.

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================
This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option
names):

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package
installation directory (short option names):

```
setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is
set.
In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

```
--remove, -r
```
Remove (unset) the option, instead of setting it.

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest`` test suite by either a function, a "TestCase" class or method, or a module or package containing "TestCases" classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--quiet` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

```
--test-suite=NAME, -s NAME
```
Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be
set by giving a ``test_suite`` argument to the `setup()` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a ``test_suite`` in your `setup()` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

The `upload` command is implemented and documented in distutils.

Setuptools augments the `upload` command with support for `keyring <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the `.pypirc` file. To use keyring, first install keyring and set the password for the relevant repository, e.g.:

```
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': ********
```

Then, in `.pypirc`, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL `https://pythonhosted.org/<project>/`.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register`` command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    |  |-- build
    |  |  |-- html
    |  |  |  |-- index.html
    |  |  |  `-- tips_tricks.html
    |  |-- conf.py
    |  |-- index.txt
    |  `-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs`` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the ``build_sphinx`` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful defaults in the ``setup.cfg`` of your Python project, e.g.:

    .. code-block:: ini

        [upload_docs]
        upload-dir = docs/build/html

The ``upload_docs`` command has the following options:

``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to
Extending and Reusing Setuptools

Creating `distutils` Extensions

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining ”entry points”. These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running ”install” or ”develop” with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for
entry points in the active distributions on `sys.path`. In fact, this is how
setuptools' own commands are installed: the setuptools project's setup
script defines entry points for them!

Adding `setup()` Arguments
----------------------------

Sometimes, your commands may need additional arguments to the `setup()`
call. You can enable this by defining entry points in the
`distutils.setup_keywords` group. For example, if you wanted a `setup()`
argument called `bar_baz`, you might add something like this to your
distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [  
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [  
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called
to validate the `setup()` argument, if it's supplied. The `Distribution`
object will have the initial value of the attribute set to `None`, and the
validation function will only be called if the `setup()` call sets it to
a non-None value. Here's an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError("%r must be a boolean value (%r)" % (attr,value))
```

Your function should accept three arguments: the `Distribution` object,
the attribute name, and the attribute value. It should raise a
`DistutilsSetupError` (from the `distutils.errors` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be `None` when they access it later.

If more than one active distribution defines an entry point for the same
`setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
```
if value is not None:
    value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
---------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block:: python

    def find_files_for_foobar(dirname):
        # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

```
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```
Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ``setup_requires``. When you create a source distribution with the ``sdist`` command, setuptools automatically records what files were found in the ``SOURCES.txt`` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as ``./some/dir`` or ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``

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

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing ``setuptools`` Code

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

``ez_setup``

-------

XXX
``setuptools.archive_util``

---------------------------
XXX

``setuptools.sandbox``

----------------------
XXX

``setuptools.package_index``

----------------------------
XXX

Mailing List and Bug Tracker

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

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt

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

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Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/six.py
1.793 liblwp-protocol-https-perl 6.06-2

1.793.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: LWP-Protocol-https
Upstream-Contact: Gisle Aas <gisle@activestate.com>
Source: https://metacpan.org/release/LWP-Protocol-https

Files: *
Copyright: 1997-2011, Gisle Aas <gisle@activestate.com>
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ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
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ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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1.808 disruptor 3.3.0

1.809 debianutils 4.11.2

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*
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/InnerClassesAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
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* /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/Tracer.java

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* /opt/cola/permissions/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeData.java
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java-07a0f60/JSONArray.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-
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* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/HTTP.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/CookieList.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/HTTPTokener.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/CDL.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/XMLTokener.java
* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/Cookie.java
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* /opt/cola/permits/1157317091_1619537178.36/0/stleary-json-java-20160212-0-g07a0f60-tar-gz/stleary-JSON-java-07a0f60/JSONWriter.java
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1.820 libalgorithm-c3-perl 0.10-1
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=pod
=head1 NAME
Algorithm::C3 - A module for merging hierarchies using the C3 algorithm
=head1 SYNOPSIS
use Algorithm::C3;
# merging a classic diamond
# inheritance graph like this:
#
# <A>
# / \
# <B> <C>
# \ /
# <D>
my @merged = Algorithm::C3::merge(
'D',
sub {
# extract the ISA array
# from the package
no strict 'refs';
@{$_[0] . '::ISA'};
}
);
print join ", " => @merged; # prints D, B, C, A
=head1 DESCRIPTION
This module implements the C3 algorithm. I have broken this out
into it's own module because I found myself copying and pasting
it way too often for various needs. Most of the uses I have for
C3 revolve around class building and metamodels, but it could
also be used for things like dependency resolution as well since
it tends to do such a nice job of preserving local precedence
orderings.

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Below is a brief explanation of C3 taken from the Class::C3 module. For more detailed information, see the SEE ALSO section and the links there.

=head2 What is C3?

C3 is the name of an algorithm which aims to provide a sane method resolution order under multiple inheritance. It was first introduced in the language Dylan (see links in the SEE ALSO section), and then later adopted as the preferred MRO (Method Resolution Order) for the new-style classes in Python 2.3. Most recently it has been adopted as the 'canonical' MRO for Perl 6 classes, and the default MRO for Parrot objects as well.

=head2 How does C3 work.

C3 works by always preserving local precedence ordering. This essentially means that no class will appear before any of its subclasses. Take the classic diamond inheritance pattern for instance:

```
   <A>
  /   \
 <B>   <C>
 \
 <D>
```

The standard Perl 5 MRO would be (D, B, A, C). The result being that B<A> appears before B<C>, even though B<C> is the subclass of B<A>. The C3 MRO algorithm however, produces the following MRO (D, B, C, A), which does not have this same issue.

This example is fairly trivial, for more complex examples and a deeper explanation, see the links in the SEE ALSO section.

=head1 FUNCTION

=over 4

=item B<merge ($root, $func_to_fetch_parent, $cache)>

This takes a $root node, which can be anything really it is up to you. Then it takes a $func_to_fetch_parent which can be either a CODE reference (see SYNOPSIS above for an example), or a string containing a method name to be called on all the items being linearized. An example of how this might look is below:
package A;

sub supers {
    no strict 'refs';
    @{$_[0] . '::ISA'};
}

package C;
our @ISA = ('A');
package B;
our @ISA = ('A');
package D;
our @ISA = ('B', 'C');
}

print join ', ' => Algorithm::C3::merge('D', 'supers');

The purpose of \$func_to_fetch_parent is to provide a way for \$merge to extract the parents of \$root. This is needed for C3 to be able to do it's work.

The \$cache parameter is an entirely optional performance measure, and should not change behavior.

If supplied, it should be a hashref that merge can use as a private cache between runs to speed things up. Generally speaking, if you will be calling merge many times on related things, and the parent fetching function will return constant results given the same arguments during all of these calls, you can and should reuse the same shared cache hash for all of the calls. Example:

sub do_some_merging {
    my %merge_cache;
    my @foo_mro = Algorithm::C3::Merge('Foo', \&get_supers, \%merge_cache);
    my @bar_mro = Algorithm::C3::Merge('Bar', \&get_supers, \%merge_cache);
    my @baz_mro = Algorithm::C3::Merge('Baz', \&get_supers, \%merge_cache);
    my @quux_mro = Algorithm::C3::Merge('Quux', \&get_supers, \%merge_cache);
    # ...
}

=back

=head1 CODE COVERAGE

I use B<Devel::Cover> to test the code coverage of my tests, below is the B<Devel::Cover> report on this module's test suite.
=head1 SEE ALSO

=head2 The original Dylan paper

=over 4

=item L<http://www.webcom.com/haahr/dylan/linearization-oopsla96.html>

=back

=head2 The prototype Perl 6 Object Model uses C3

=over 4

=item L<http://svn.openfoundry.org/pugs/perl5/Perl6-MetaModel/>

=back

=head2 Parrot now uses C3

=over 4

=item L<http://aspn.activestate.com/ASPN/Mail/Message/perl6-internals/2746631>

=item L<http://use.perl.org/~autrijus/journal/25768>

=back

=head2 Python 2.3 MRO related links

=over 4

=item L<http://www.python.org/2.3/mro.html>

=item L<http://www.python.org/2.2.2/descrintro.html#mro>

=back

=head2 C3 for TinyCLOS
Authors

Stevan Little, Stevan@iinteractive.com
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Abstract: 'A module for merging hierarchies using the C3 algorithm'

Author:
- Stevan Little <stevan@iinteractive.com>
- Brandon L. Black <blblack@gmail.com>

Build Requires:
Test::More: '0.47'

Configure Requires:
ExtUtils::MakeMaker: '0'

Dynamic Config: 1

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Meta-Spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Algorithm-C3
no_index:
directory:
  - t
NAME
Algorithm::C3 - A module for merging hierarchies using the C3 algorithm

SYNOPSIS
use Algorithm::C3;

# merging a classic diamond
# inheritance graph like this:
#
#  <A>
# /   \\n# <B>   <C>
# \   /
#   <D>

my @merged = Algorithm::C3::merge('D',
    sub {
        # extract the ISA array
        # from the package
        no strict 'refs';
        @{$$_[0]::ISA};
    });

print join "", " => @merged; # prints D, B, C, A

DESCRIPTION
This module implements the C3 algorithm. I have broken this out into
it's own module because I found myself copying and pasting it way too
often for various needs. Most of the uses I have for C3 revolve around
class building and metamodels, but it could also be used for things like
dependency resolution as well since it tends to do such a nice job of
preserving local precedence orderings.
Below is a brief explanation of C3 taken from the Class::C3 module. For more detailed information, see the "SEE ALSO" section and the links there.

What is C3?
C3 is the name of an algorithm which aims to provide a sane method resolution order under multiple inheritance. It was first introduced in the language Dylan (see links in the "SEE ALSO" section), and then later adopted as the preferred MRO (Method Resolution Order) for the new-style classes in Python 2.3. Most recently it has been adopted as the 'canonical' MRO for Perl 6 classes, and the default MRO for Parrot objects as well.

How does C3 work.
C3 works by always preserving local precedence ordering. This essentially means that no class will appear before any of it's subclasses. Take the classic diamond inheritance pattern for instance:

```
< A >
 / \```
```
< B > < C >
\ /```
```
< D >```

The standard Perl 5 MRO would be (D, B, A, C). The result being that A appears before C, even though C is the subclass of A. The C3 MRO algorithm however, produces the following MRO (D, B, C, A), which does not have this same issue.

This example is fairly trivial, for more complex examples and a deeper explanation, see the links in the "SEE ALSO" section.

FUNCTION
merge ($root, $func_to_fetch_parent, $cache)
This takes a $root node, which can be anything really it is up to you. Then it takes a $func_to_fetch_parent which can be either a CODE reference (see SYNOPSIS above for an example), or a string containing a method name to be called on all the items being linearized. An example of how this might look is below:

```
{ package A;
    sub supers { no strict 'refs'; @ {$_[0] . '::ISA'}; }
```
package C;
our @ISA = ('A');
package B;
our @ISA = ('A');
package D;
our @ISA = ('B', 'C');
}
print join ", " => Algorithm::C3::merge('D', 'supers');
The purpose of $func_to_fetch_parent is to provide a way for "merge"
to extract the parents of $root. This is needed for C3 to be able to
do it's work.
The $cache parameter is an entirely optional performance measure,
and should not change behavior.
If supplied, it should be a hashref that merge can use as a private
cache between runs to speed things up. Generally speaking, if you
will be calling merge many times on related things, and the parent
fetching function will return constant results given the same
arguments during all of these calls, you can and should reuse the
same shared cache hash for all of the calls. Example:
sub do_some_merging {
my %merge_cache;
my @foo_mro = Algorithm::C3::Merge('Foo', \&get_supers, \%merge_cache);
my @bar_mro = Algorithm::C3::Merge('Bar', \&get_supers, \%merge_cache);
my @baz_mro = Algorithm::C3::Merge('Baz', \&get_supers, \%merge_cache);
my @quux_mro = Algorithm::C3::Merge('Quux', \&get_supers, \%merge_cache);
# ...
}
CODE COVERAGE
I use Devel::Cover to test the code coverage of my tests, below is the
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------------------------ ------ ------ ------ ------ ------ ------ -----File
stmt bran cond sub pod time total
------------------------ ------ ------ ------ ------ ------ ------ -----Algorithm/C3.pm
100.0 100.0 100.0 100.0 100.0 100.0 100.0
------------------------ ------ ------ ------ ------ ------ ------ -----Total
100.0 100.0 100.0 100.0 100.0 100.0 100.0
------------------------ ------ ------ ------ ------ ------ ------ -----SEE ALSO
The original Dylan paper

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<http://svn.openfoundry.org/pugs/perl5/Perl6-MetaModel/>

Parrot now uses C3
<http://aspn.activestate.com/ASPN.Mail/Message/perl6-internals/2746631>
<http://use.perl.org/~autrijus/journal/25768>

Python 2.3 MRO related links
<http://www.python.org/2.3/mro.html>
<http://www.python.org/2.2.2/descrintro.html#mro>

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1.821 liburi-perl 1.71-1

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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
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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
The following artifacts are CDDL + GPLv2 with classpath exception.

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

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1.828 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-IR.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().

=head1 COPYRIGHT

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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/lib/File/Listing.pm
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license: perl
NAME
   File::Listing - parse directory listing

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\');

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,
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()`.

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* /opt/cola/permits/1138401293_1614281814.28/0/libfile-listing-perl-6-04-orig-1-tar-gz/File-Listing-6.04/README

---

**1.829 popularity-contest 1.64ubuntu2**

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---

name: Error
version: 0.17010
author:
  - 'Graham Barr <gbarr@pobox.com>'
abstract: Error/exception handling in an OO-ish way
license: perl
resources:
  license: http://dev.perl.org/licenses/
requires:
  Scalar::Util: 0
provides:
  Error:
    file: lib/Error.pm
    version: 0.17010
  Error::Simple:
    file: lib/Error.pm
  Error::WarnDie:
    file: lib/Error.pm
  Error::subs:
    file: lib/Error.pm
generated_by: Module::Build version 0.2805
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.2.html
  version: 1.2

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=head1 NAME
Error - Error/exception handling in an OO-ish way

=head1 SYNOPSIS

use Error qw(:try);

throw Error::Simple( "A simple error");

sub xyz {
  ...
  record Error::Simple("A simple error")
  and return;
}

unlink($file) or throw Error::Simple("$file: $!",$!);

try {
  do_some_stuff();
  die "error!" if $condition;
  throw Error::Simple "Oops!" if $other_condition;
  }
  catch Error::IO with {
    my $E = shift;
    print STDERR "File ", $E->{'-file'}, " had a problem\n";
  }
  except {
    my $E = shift;
    my $general_handler=sub {send_message $E->{-description}};
    return {
      UserException1 => $general_handler,
      UserException2 => $general_handler
    };
  }
  otherwise {
    print STDERR "Well I don't know what to say\n";
  }
  finally {
    close_the_garage_door_already(); # Should be reliable
    };
# Don't forget the trailing ; or you might be surprised

=head1 DESCRIPTION

The C<Error> package provides two interfaces. Firstly C<Error> provides a procedural interface to exception handling. Secondly C<Error> is a base class for errors/exceptions that can either be thrown, for subsequent catch, or can simply be recorded.

Errors in the class C<Error> should not be thrown directly, but the
user should throw errors from a sub-class of \texttt{C<Error>}.

\section*{PROCEDURAL INTERFACE}

\texttt{C<Error>} exports subroutines to perform exception handling. These will be exported if the \texttt{C<try>} tag is used in the \texttt{C<use>} line.

\item \texttt{try BLOCK CLAUSES}

\texttt{C<try>} is the main subroutine called by the user. All other subroutines exported are clauses to the \texttt{try} subroutine.

The \texttt{BLOCK} will be evaluated and, if no error is throw, \texttt{try} will return the result of the block.

\texttt{C<CLAUSES>} are the subroutines below, which describe what to do in the event of an error being thrown within \texttt{BLOCK}.

\item \texttt{catch CLASS with BLOCK}

This clauses will cause all errors that satisfy \texttt{C<$err-E<gt>isa(CLASS)>} to be caught and handled by evaluating \texttt{C<BLOCK>}.

\texttt{C<BLOCK>} will be passed two arguments. The first will be the error being thrown. The second is a reference to a scalar variable. If this variable is set by the catch block then, on return from the catch block, \texttt{try} will continue processing as if the catch block was never found. The error will also be available in \texttt{C<$@>}. To propagate the error the catch block may call \texttt{C<$err-E<gt>throw>}

If the scalar reference by the second argument is not set, and the error is not thrown. Then the current \texttt{try} block will return with the result from the catch block.

\item \texttt{except BLOCK}

When \texttt{C<try>} is looking for a handler, if an except clause is found \texttt{C<BLOCK>} is evaluated. The return value from this block should be a \texttt{HASHREF} or a list of key-value pairs, where the keys are class names and the values are \texttt{CODE} references for the handler of errors of that type.

\item \texttt{otherwise BLOCK}

Catch any error by executing the code in \texttt{C<BLOCK>}.
When evaluated C<BLOCK> will be passed one argument, which will be the error being processed. The error will also be available in C<$@>.

Only one otherwise block may be specified per try block

=item finally BLOCK

Execute the code in C<BLOCK> either after the code in the try block has successfully completed, or if the try block throws an error then C<BLOCK> will be executed after the handler has completed.

If the handler throws an error then the error will be caught, the finally block will be executed and the error will be re-thrown.

Only one finally block may be specified per try block

=back

=head1 CLASS INTERFACE

=head2 CONSTRUCTORS

The C<Error> object is implemented as a HASH. This HASH is initialized with the arguments that are passed to it's constructor. The elements that are used by, or are retrievable by the C<Error> class are listed below, other classes may add to these.

-file
-line
-text
-value
-object

If C<-file> or C<-line> are not specified in the constructor arguments then these will be initialized with the file name and line number where the constructor was called from.

If the error is associated with an object then the object should be passed as the C<-object> argument. This will allow the C<Error> package to associate the error with the object.

The C<Error> package remembers the last error created, and also the last error associated with a package. This could either be the last error created by a sub in that package, or the last error which passed an object blessed into that package as the C<-object> argument.
=item Error->new()

See the Error::Simple documentation.

=item throw ( [ ARGS ] )

Create a new C<Error> object and throw an error, which will be caught by a surrounding C<try> block, if there is one. Otherwise it will cause the program to exit.

C<throw> may also be called on an existing error to re-throw it.

=item with ( [ ARGS ] )

Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

    die with Some::Error ( ... );

=item record ( [ ARGS ] )

Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

    record Some::Error ( ... )
and return;

=back

=head2 STATIC METHODS

=over 4

=item prior ( [ PACKAGE ] )

Return the last error created, or the last error associated with C<PACKAGE>

=item flush ( [ PACKAGE ] )

Flush the last error created, or the last error associated with C<PACKAGE>. It is necessary to clear the error stack before exiting the package or uncaught errors generated using C<record> will be reported.

    $Error->flush;

=cut
If the variable C<$Error::Debug> was non-zero when the error was created, then C<stacktrace> returns a string created by calling C<Carp::longmess>. If the variable was zero the C<stacktrace> returns the text of the error appended with the filename and line number of where the error was created, providing the text does not end with a newline.

The object this error was associated with

The file where the constructor of this error was called from

The line where the constructor of this error was called from

The text of the error

Associates an error with an object to allow error propagation. I.e:

$ber->encode(...) or
  return Error->prior($ber)->associate($ldap);

A method that converts the object into a string. This method may simply
return the same as the \texttt{-text} method, or it may append more information. For example the file name and line number.

By default this method returns the \texttt{-text} argument that was passed to the constructor, or the string \texttt{"Died"} if none was given.

\item \texttt{-value}

A method that will return a value that can be associated with the error. For example if an error was created due to the failure of a system call, then this may return the numeric value of \texttt{$!} at the time.

By default this method returns the \texttt{-value} argument that was passed to the constructor.

=back

=head1 PRE-DEFINED ERROR CLASSES

=head2 Error::Simple

This class can be used to hold simple error strings and values. It's constructor takes two arguments. The first is a text value, the second is a numeric value. These values are what will be returned by the overload methods.

If the text value ends with \texttt{at file line 1} as $@ strings do, then this infomation will be used to set the \texttt{-file} and \texttt{-line} arguments of the error object.

This class is used internally if an eval'd block die's with an error that is a plain string. (Unless \texttt{$Error::ObjectifyCallback} is modified)

=head1 $Error::ObjectifyCallback

This variable holds a reference to a subroutine that converts errors that are plain strings to objects. It is used by Error.pm to convert textual errors to objects, and can be overrided by the user.

It accepts a single argument which is a hash reference to named parameters. Currently the only named parameter passed is \texttt{-text} which is the text of the error, but others may be available in the future.

For example the following code will cause Error.pm to throw objects of the class MyError::Bar by default:
sub throw_MyError_Bar
{
    my $args = shift;
    my $err = MyError::Bar->new();
    $err->{'MyBarText'} = $args->{'text'};
    return $err;
}

local $Error::ObjectifyCallback = \&throw_MyError_Bar;

# Error handling here.

=cut

=head1 MESSAGE HANDLERS

C<Error> also provides handlers to extend the output of the C<warn()> perl
function, and to handle the printing of a thrown C<Error> that is not caught
or otherwise handled. These are not installed by default, but are requested
using the C<:warndie> tag in the C<use> line.

use Error qw( :warndie );

These new error handlers are installed in C<$SIG{__WARN__}> and
C<$SIG{__DIE__}>. If these handlers are already defined when the tag is
imported, the old values are stored, and used during the new code. Thus, to
arrange for custom handling of warnings and errors, you will need to perform
something like the following:

BEGIN {
    $SIG{__WARN__} = sub {
        print STDERR "My special warning handler: $_[0]"
    };
}

use Error qw( :warndie );

Note that setting C<$SIG{__WARN__}> after the C<:warndie> tag has been
imported will overwrite the handler that C<Error> provides. If this cannot be
avoided, then the tag can be explicitly C<import>ed later

use Error;

$SIG{__WARN__} = ...;

import Error qw( :warndie );
=head2 EXAMPLE

The C<__DIE__> handler turns messages such as

Can't call method "foo" on an undefined value at examples/warndie.pl line 16.

into

Unhandled perl error caught at toplevel:

Can't call method "foo" on an undefined value

Thrown from: examples/warndie.pl:16

Full stack trace:

    main::inner('undef') called at examples/warndie.pl line 20
    main::outer('undef') called at examples/warndie.pl line 23
=cut

=head1 KNOWN BUGS

None, but that does not mean there are not any.

=head1 AUTHORS

Graham Barr <gbarr@pobox.com>

The code that inspired me to write this was originally written by Peter Seibel <peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.

C<warndie> handlers added by Paul Evans <leonerd@leonerd.org.uk>

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*/
/**
 * Set the `{code TCP_MD5SIG}` option on the socket. See `{code linux/tcp.h}` for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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/**
 * Set the {code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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Upstream-Contact: Phillip Vandry <vandry@TZoNE.ORG>
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 define UV_PLATFORM_FS_EVENT_FIELDS
 uv__io_t event_watcher;

 define UV_IO_PRIVATE_PLATFORM_FIELDS
 int rcount;
 int wcount;

 define UV_HAVE_KQUEUE 1

 endif /* UV_BSD_H */

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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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

* java.servlet:javax.servlet-api
* java.annotation:javax.annotation-api
* java.transaction:javax.transaction-api
* java.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
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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The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
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- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
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===========================================================================

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Noggit is a fast streaming JSON parser for java. The code is included into Solr codebase.

https://github.com/yonik/noggit

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return "";
        }

        return String

    }

    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return "";
        }

        return String

    }
}
return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright &copy; " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}
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<info><title>GNU Free Documentation License</title></info>
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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*
class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};
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@example
@example{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end example

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

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

@example
@example{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
/* Permission.java -- The superclass for all permission objects

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this exception to your version of the library, but you are not
obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;
/**
   * This class is the abstract superclass of all classes that implement
   * the concept of a permission. A permission consists of a permission name
   * and optionally a list of actions that relate to the permission. The
   * actual meaning of the name of the permission is defined only in the
   * context of a subclass. It may name a resource to which access permissions
   * are granted (for example, the name of a file) or it might represent
   * something else entirely. Similarly, the action list only has meaning
   * within the context of a subclass. Some permission names may have no
   * actions associated with them. That is, you either have the permission
   * or you don't.
   *
   * <p>The most important method in this class is <code>implies</code>. This
   * checks whether if one has this permission, then the specified
   * permission is also implied. As a conceptual example, consider the
   * permissions "Read All Files" and "Read File foo". The permission
   * "Read All Files" implies that the caller has permission to read the
   * file foo.
   *
   * <p><code>Permission</code>'s must be immutable - do not change their
   * state after creation.
   *
   * @author Aaron M. Renn (arenn@urbanophile.com)
   * @see Permissions
   * @see PermissionCollection
   * @since 1.1
   * @status updated to 1.4
   */

public abstract class Permission implements Guard, Serializable
{
  /**
   * Compatible with JDK 1.1+.
   */

  private static final long serialVersionUID = -5636570222231596674L;

  /**
   * This is the name assigned to this permission object.
   *
   * @serial the name of the permission
   */

  private String name;

  /**
   * Create an instance with the specified name.
   *
   * @param name the permission name
   */

  public Permission(String name)
{  
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code>
 * with this <code>Permission</code> as its argument. This method returns silently
 * if the security check succeeds or throws an exception if it fails.
 *  
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *  
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *  
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *  
 * @return a hash value
 */
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName(){
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection(){
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')"</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString(){
    CPStringBuilder string = new CPStringBuilder();
string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');  
string = string.append(getName());
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}
string = string.append(')');
return string.toString();
}
} // class Permission
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```
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```

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GCC RUNTIME LIBRARY EXCEPTION
Version 3.1, 31 March 2009

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<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL-NS Stylesheets
V1.78.1" /><meta name="keywords" content="ISO C++, library" /><link rel="home" href="../index.html" title="The GNU C++ Library" />
<link rel="up" href="/license.html" title="Chapter1.Status" />
<link rel="next" href="/bugs.html" title="Bugs" />
<body><div class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%" align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div class="titlepage"><div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div><p>There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.</p><p>There is a license section in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.</p><p>The source code is distributed under the GNU General Public License version 3 along with this Exception as follows (or see the file COPYING.RUNTIME):</p><div class="literalblock"><pre>GCCRUNTIMELIBRARYEXCEPTION<br />
GCRuntimeLibraryException("Exception")isanadditional<br />
permissionundersection7oftheGNUGeneralPublicLicense,version3<br />
3("GPLv3").Itappliestoagivenfile("RuntimeLibrary")that<br />
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br />
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</pre></div>

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtimelibraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtimelibraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it neither requires the Runtime Library for execution after a Compilation Process, nor makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediatelanguages designed for human-written code, and/or in Java Virtual Machine bytecode, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as such Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such...
propagation would otherwise violate the terms of GPLv3. Provided that all Target Code was generated by Eligible Compilation Processes, you may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

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Hopefully that text is self-explanatory. If it isn't, you need to speak to your lawyer, or the Free Software Foundation.

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If you plan on making copies of the documentation, please let us know. We can probably offer suggestions.

#!/usr/bin/python
#
# Copyright (C) 2013-2016 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.pl --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.pl --this-year libjava
#
# would run the script on just libjava/.
#
# 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 + '
')
        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',
            'ltsub.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
        ])}
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    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 (  
            # 1: 'Copyright (C)', etc.
            '\([Cc]opyright'  
            '|[Cc]opyright\s+\([Cc]\)'  
            '|[Cc]opyright\s+%s'  
            '|[Cc]opyright\s+©'  
            '|[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 + '\(\?:s?' + name + '+\)\)*\)'  

            # 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 ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# 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)
    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
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report (pathname,
            'unrecognised copyright holder: ' + holder)
            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)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        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)
            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):


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for arg in sys.argv[1:]:
    if arg[1] != '-':
        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
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 LibJavaFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set (
        # Handled separately.
        'testsuite',

        # Not really part of the library
        'contrib',

        # Imported from upstream
        'classpath',
        'libltldl',
    )

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Handled separately.
        'testsuite',
    ])

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('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):
        CmdLine.__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 ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
    TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
    ]

GCCCmdLine().main()
if+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValue copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisInlineTagregister(Ljava/util/Map;)V
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td>@node Library Copying</td>
<td></td>
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```
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```
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```java
java/security/acl/Permission
java/lang/Object
equals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
```

SourceFilePermission.java

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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 (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@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 Hutunen (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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   adapted to BSD conventions for symbol names and debugging.)
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/* 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\u", (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))

/* 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\n", (int)(ROUNDED)))

#endif
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (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\n", (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

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/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     * @param perm The permission to check for equality
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);
* This method returns this `<code>Permission</code>` as a `<code>String</code>`.
*
* @return A `<code>String</code>` representing this permission.
*/

String toString();
}

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#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {
        namespace javax
        {
            namespace sound
            {
                class AudioSecurityManager$Permission;
            }
        }
    }

    class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
    {
        AudioSecurityManager$Permission(::java::lang::String *, jint);
1.853 resourcelocator 1.0.1

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1.856 pycrypto 2.6.1 6ubuntu0.16.04.3

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.857 systemd 247.3-6

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1.862 go-runtime 1.10.4

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into Solr codebase.

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }

        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright \&#169; " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

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

That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright © 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@c ignore
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@end c man end

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * Permission's must be immutable - do not change their
 * state after creation.
public abstract class Permission implements Guard,Serializable
{
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in 
 * <code>SecurityManager</code> with this <code>Permission</code> as its 
 * argument. This method returns silently if the security check succeeds 
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class 
 * @throws SecurityException if the security check fails 
 * @see GuardedObject 
 * @see SecurityManager#checkPermission(Permission) 
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")/code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')</code>.
 * *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission

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# 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.pl --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.pl --this-year libjava
#
# would run the script on just libjava/.
#
# 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 + '
')
        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',
            'idl.texi',
        ])

        self.own_files.update(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'idl.texi',
        ])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    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
    return False

if __name__ == '__main__':
    fdl = find_docs (dir, ext='xml', skip=('ltversion.m4',))
    gnu = find_docs (dir, ext='texi', skip=('ltmain.sh',))

    print ('Found:
')
    print ('FDL:
')
    print ('- ' + '
'- '. '.join (fdl))

    print ('GNU:
')
    print ('- ' + '
'- '. '.join (gnu))
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]+[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 (  
    '# 1: 'Copyright (C)', etc.'  
    '([Cc]\(opyright'  
    '([Cc]\(opyright\+([Cc])'  
    '([Cc]\(opyright\+%s'  
    '([Cc]\(opyright\퇀copy;'  
    '([Cc]\(opyright\+\@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 + '(?:\s?' + 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 ')
self.holders = { '@copying': '@copying'  
    self.holder_prefixes = set()  
    # 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
        else:
            return year
    elif len (string) == 4:
        return year
    else:
        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

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    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)
    with open (pathname, 'r') as file:
        prev = None
        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
                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)
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\n'
% 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

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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[:1] != '-':
            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
        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([  
            ])

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class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',
        })

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 ('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 ('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 Go Authors.')
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):
        CmdLine.__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('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.
self.default_dirs = [  
'gcc',  
'libada',  
'libatomic',  
'libbacktrace',  
'libcpp',  
'libdecnumber',  
'libgcc',  
'libgfortran',  
'libgomp',  
'libitm',  
'libmudflap',  
'libobjc',  
'libstdc++-v3',  
]  

GCCCmdLine().main()  

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

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

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

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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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Local Variables:
ispell-local-pdict: "ispell-dict"
End:

1java/security/acl/Permission\java/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
/* 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
", (int)(ROUNDED)))

/* 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)))

#ifdef 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 \(2^{\text{LOG}}\) bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  \
if ((LOG)!=0) fprintf ((FILE), 	.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

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper 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 Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@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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/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
    /**
     * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return true if the specified permission is the same as this one, false otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this Permission as a String representing this permission.
     *
     * @return A String representing this permission.
     */
    String toString();
}

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
  AudioSecurityManager$Permission(::java::lang::String *, jint);
  public:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
  static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
  static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
  private:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
  public:
  static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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1.874 libcarp-clan-perl 6.04-2

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1.875 libtest-toolbox-perl 0.4 1

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1.876 libwww-perl 6.15-1

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

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==================================================================
Building and Distributing Packages with Setuptools
==================================================================

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.
* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

-----------------
Developer's Guide
-----------------
Installing `setuptools`

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

    ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of distutils. Here's a minimal setup script using setuptools::

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
    )

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
        scripts = ["say_hello.py"],

        # Project uses reStructuredText, so ensure that the docutils get
        # installed or upgraded on the target machine
        install_requires = ["docutils>=0.3"],

        package_data = {
            # If any package contains *.txt or *.rst files, include them:
            "": ["*.txt", '*.rst'],
            # And include any *.msg files found in the 'hello' package, too:
            'hello': ["*.msg"],
        },

        # metadata for upload to PyPI
        author = "Me",
        author_email = "me@example.com",
        description = "This is an Example Package",
        license = "PSF",
        keywords = 'hello world example examples',
        url = "http://example.com/HelloWorld/", # project home page, if any

        # could also include long_description, download_url, classifiers, etc.
    )

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
-----------------------------------

Setup tools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setup tools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by
dots, such as "2.4" or "0.5". Each series of digits is treated numerically, so releases "2.1" and "2.1.0" are different ways to spell the same release number, denoting the first subrelease of release 2. But "2.10" is the *tenth* subrelease of release 2, and so is a different and newer release from "2.1" or "2.1.0". Leading zeros within a series of digits are also ignored, so "2.01" is the same as "2.1", and different from "2.0.1".

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision "2.4" is *newer* than revision "2.4c1", which in turn is newer than "2.4b1" or "2.4a1". Post-release tags make a version be considered *newer* than the version they are appended to. So, revisions like "2.4-1" and "2.4pl3" are newer than "2.4", but are *older* than "2.4.1" (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include "alpha", "beta", "a", "c", "dev", and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, "2.4c1" and "2.4.c1" and "2.4-c1" all represent release candidate 1 of version "2.4", and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version "2.4rc1", "2.4pre1" and "2.4preview1" are all the exact same version as "2.4c1", and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("-"). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version "2.4-r1263" might denote Subversion revision 1263 of a post-release patch of version "2.4". Or you might use "2.4-20051127" to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, "0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that "dev" is a pre-release tag, so this version is a *lower* version number than "0.6a9", which would be the actual ninth alpha of release 0.6. But the "-r41475" is a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
between them. Version `1.9a0dev` is the `adev` prerelease of `1.9`, *not* a development pre-release of `1.9a`. Use `.dev` instead, as in `1.9a.dev`, or separate the prerelease tags with a number, as in `1.9a0dev`, `1.9a.dev`, `1.9a0dev`, and even `1.9a.dev` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info` command

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

`include_package_data`
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on Including Data Files.

`exclude_package_data`
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on Including Data Files.

`package_data`
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the `setup script` to run. `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` and `setup_requires`.)
`dependency_links`
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

`namespace_packages`
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

`test_suite`
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

`tests_require`
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

`_test_loader`
If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. setuptools will pass only one test name in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem as a unit. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar/baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.
Using ``find_packages()``

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `"src"` or `"lib"` as the first argument to `find_packages()`. (And such projects also need something like `package_dir = {"":'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*.tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```
find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

==================================
Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their ``PATHEXT`` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called ``foo`` and ``bar``, and a GUI script called ``baz``, you might do something like this::

```python
setup(  
    # other arguments here...  
    entry_points={  
        'console_scripts': [  
            'foo = my_package.some_module:main_func',  
            'bar = other_module:some_func',  
        ],  
        'gui_scripts': [  
            'baz = my_package_gui:start_func',  
        ]  
    }  
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main_func`` and ``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``. so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.
"Eggsecutable" Scripts
----------------------

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following::

```
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module.main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
-----------------------

```
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version
specifiers. A version specifier is one of the operators ""<", "">", ""\<", "">", ""\<", or ""\!=", followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with ""\-"".

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ""\>1, >2"" becomes ""\>1\"", and ""\<2, \<3"" becomes ""\<3\""). ""\!=\"" versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. ""\<2, \>=2"" or ""\=2, !\=2\"") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
doctools >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \n  ==1.6, ==1.7  # and so are line-end comments

PEAK[FastCGI, reST] >=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See "Development Mode" below for more details on
using ``setup.py develop``.)

Dependencies that aren’t in PyPI
--------------------------------

If your project depends on packages that aren’t registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository’s URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge `showfiles.php` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that’s distributed as a single `.py` file, you
must include an `#egg=project-version` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial `setup.py` to wrap the single `.py` file
as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version`
in order to identify for what package that checkout should be used. You can
append `@REV` to the URL’s path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:
``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL’s fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(
...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

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

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ["ReportLab>=1.2", "RXP"],
        'reST': ["docutils>=0.3"],
    }
)
```
As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its
setup to this::

    setup(
        name="Project-A",
        ...
        extras_require = {
            'PDF': [],
            'reST': ['docutils>=0.3'],
        }
    )

so that Package B doesn't have to remove the `\[PDF\]` from its requirement
specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which
are placed in a platform-specific location. However, the most common use case
for data files distributed with a package is for use *by* the package, usually
by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your
packages. First, you can simply use the `\include_package_data` keyword,
e.g.::

    from setuptools import setup, find_packages
    setup(
        ...
        include_package_data = True
    )

This tells setuptools to install any data files it finds in your packages.
The data files must be specified via the distutils' `MANIFEST.in` file.
(They can also be tracked by a revision control system, using an appropriate
plugin. See the section below on `Adding Support for Revision Control
Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example,
if you have documentation files in your package directories and want to exclude
them from installation), then you can also use the `\package_data` keyword,
e.g.::

    from setuptools import setup, find_packages
    setup(  
        ...
package_data = {
    # If any package contains *.txt or *.rst files, include them:
    "": ["*.txt", "*.rst"],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': ["*.msg"],
}
)

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

    setup.py
    src/
    mypkg/
    __init__.py
    mypkg.txt
    data/
    somefile.dat
    otherdata.dat

The setuptools setup file might look like this::

    from setuptools import setup, find_packages
    setup(
        ...
        packages = find_packages('src'),  # include all packages under src
        package_dir = {'': 'src'},   # tell distutils packages are under src
        package_data = {
            # If any package contains *.txt files, include them:
            "": ["*.txt"],
            # And include any *.dat files found in the 'data' subdirectory
            # of the 'mypkg' package, also:
            'mypkg': ["data/*.dat"],
        }
    )

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.
Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this:

```python
from setuptools import setup, find_packages
setup(
    ...  
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src

    include_package_data = True,  # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be excluded from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

- `include_package_data`
  Accept all data files and directories matched by `MANIFEST.in`.

- `package_data`
  Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

- `exclude_package_data`
  Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.
NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ```setup.py clean --all``` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ```setup.py clean --all```.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's ```__file__``` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of ```pkg_resources``` to access them. The ```pkg_resources``` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses ```__file__``` to use ```pkg_resources``` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The ```distutils``` normally install general "data files" to a platform-specific location (e.g. ```/usr/share```). This feature intended to be used for things like documentation, example configuration files, and the like. ```setuptools``` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a ```Requirement``` instead of a package name::

    from pkg_resources import Requirement, resource_filename
    filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine;
this is a feature, not a bug. You can always include a script in your
distribution that extracts and copies your the documentation or data files to
a user-specified location, at their discretion. If you put related data files
in a single directory, you can use `resource_filename()` with the directory
name to get a filesystem directory that then can be copied with the `shutil`
module. (Even if your package is installed as a zipfile, calling
`resource_filename()` on a directory will return an actual filesystem
directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your
data files or directories inside one of your packages, rather than using the
distutils' approach. However, if you're updating an existing application, it
may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
---------------------------------

If you are using tools that expect your resources to be "real" files, or your
project includes non-extension native libraries or other files that your C
extensions expect to be able to access, you may need to list those files in
the `eager_resources` argument to `setup()`, so that the files will be
extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other*
than distutils-built C extensions, and those shared libraries use file
extensions other than `.dll`, `.so`, or `.dylib`, which are the
extensions that setuptools 0.6a8 and higher automatically detects as shared
libraries and adds to the `native_libs.txt` file for you. Any shared
libraries whose names do not end with one of those extensions should be listed
as `eager_resources`, because they need to be present in the filesystem when
he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically
extract *all* C extensions and `eager_resources` at the same time, whenever
*any* C extension or eager resource is requested via the `resource_filename()`
API. (C extensions are imported using `resource_filename()` internally.)
This ensures that C extensions will see all of the "real" files that they
expect to see.

Note also that you can list directory resource names in `eager_resources` as
well, in which case the directory's contents (including subdirectories) will be
extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you
don't! It's really intended to support projects with lots of non-Python
dependencies and as a last resort for crufty projects that can't otherwise
handle being compressed. If your package is pure Python, Python plus data
files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of "eager_resources" being relevant to your project.

Extensible Applications and Frameworks
---------------------------------------

.. _Entry Points:

Dynamic Discovery of Services and Plugins
-----------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
```
entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
==================

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild
and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop` command below for more details.
Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

    python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
==========================================

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know
In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `--f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `--f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using
a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use "setup.py develop" when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run "setup.py clean --all" and delete any obsolete "pyc" or "pyo". (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't "easy_install"!
Setup tools currently support "bdist_rpm", "bdist_wininst", and "bdist_dumb" formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils "install" command, it should be able to work with "setuptools". Some examples of "bdist" formats that this should work with include the "bdist_nsi" and "bdist_msi" formats for Windows.

However, packaging tools that build binary distributions by running "setup.py install" on the command line or as a subprocess will require modification to work with setuptools. They should use the "--single-version-externally-managed" option to the "install" command, combined with the standard "--root" or "--record" options. See the `install command` documentation below for more details. The "bdist_deb" command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the "zip_safe" flag
----------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, "setuptools" can install your project as a zipfile or a directory, and its default choice is determined by the project's "zip_safe" flag.
You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages
--------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
`__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

    setup(
        # ...
        namespace_packages = ['zope']
    )

because it contains a `zope.interface` package that lives in the `zope`
namespace package. Similarly, a project for a standalone `zope.publisher`
would also declare the `zope` namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" `zope`
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
`zope.app` package is a namespace package, and in the future PEAK's
`peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' `__init__.py` files (and the `__init__.py` of any parent
packages), in a normal Python package layout. These `__init__.py` files
*must* contain the line::

    __import__('pkg_resources').declare_namespace(__name__)

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
`__init__.py`. Even though it may appear to work during development, or when
projects are installed as `.egg` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
`__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of
*every* project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of `__init__.py` is loaded first. If the first loaded
`__init__.py` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field.

Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
------------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setupools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)
An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding `"egg_info"` and the desired options to the command line ahead of the `"sdist"` or `"bdist"` commands that you want to generate a daily build or snapshot for. See the section below on the `"egg_info"` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `"daily"` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `"setup.py daily"` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
-------------------------------

`setuptools` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `"MANIFEST.in"` file. See the section below on `Adding Support for Revision Control Systems` for information on plugins.
If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

``long_description``
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace ``project`` and ``version`` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=``` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```bash
   easy_install --editable projectname==dev
```

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion
----------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```ini
[egg_info]
tag_build = .dev
```

```bash
.. code-block:: ini

[egg_info]
tag_build = .dev
```
tag_svn_revision = 1

This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than
``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be
the *next* version of your software, not the last released version.
Alternately, you can leave out the ``tag_build=.dev``), and always use the
*last* release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to
their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``", e.g.:

.. code-block:: python

    install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and use an ""#egg=OtherProject-dev""
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.
Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

`setuptools` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools`
will use it. If not, then ``setuptools`` will silently change the
``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx``
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original ``.pyx`` files. This means
that you will probably want to include current ``.c`` files in your revision
control system, rebuilding them whenever you check changes in for the ``.pyx``
source files. This will ensure that people tracking your project in a revision
control system will be able to build it even if they don't have Pyrex
installed, and that your source releases will be similarly usable with or
without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't
necessarily set them as defaults. For example, if you produce both development
snapshot releases and "stable" releases of a project, you may want to put
the distributions in different places, or use different ``egg_info`` tagging
options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname
expansion``, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

    setup.py alias --global-config daily egg_info --tag-svn-revision
                   --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

    setup.py daily bdist_egg   # generate a daily-build .egg file
    setup.py daily sdist       # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both
The above commands are interpreted as if the word "daily" were replaced with "egg_info --tag-svn-revision --tag-build=development".

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra
metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

```
--dist-dir=DIR, -d DIR
```
Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

```
--plat-name=PLATFORM, -p PLATFORM
```
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

```
--exclude-source-files
```
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

```
--keep-temp, -k
```
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

```
--bdist-dir=DIR, -b DIR
```
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:
``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ``develop`` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts`
(for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.
``egg_info`` - Create egg metadata and set build tags
======================================================

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files` below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number
to be considered *lower* than the project's default version. (If you
want to make the version number *higher* than the default version, you can
always leave off --tag-build and then use one or both of the following
options.)

If you have a default build tag set in your ``setup.cfg``, you can suppress
it on the command line using ``--tag-build=`` as an argument
to the ``egg_info`` command.
``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `.PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `.PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form `-YYYYMMD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a `''src''` or `''lib''` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `''package_dir''` argument to the `''setup()''` function, if any. If there is no `''package_dir''` set, this option defaults to the current directory.

``egg_info`` Examples
---------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `''setup.cfg''`::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `''egg_info''` must always appear on the command line *before* any commands that you want the version changes to apply to.)

``install`` command:
``install`` - Run `''easy_install''` or old-style installation
===============

The setuptools `''install''` command is basically a shortcut to run the `''easy_install''` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``
This boolean option tells the `''install''` command to perform an "old style" installation, with the addition of an `''.egg-info''` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `''--root''` or `''--record''` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `''install''` is invoked by another distutils command, so that commands like `''bdist_wininst''` and `''bdist_rpm''` will create system packages of eggs. It is also automatically in effect if you specify the `''--root''` option.

``install_egg_info`` - Install an `''.egg-info''` directory in `''site-packages''`
Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

```
--install-dir=DIR, -d DIR
```

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `.egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `.egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. _rotate:

```
rotate` - Delete outdated distribution files
```

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST
```

Comma-separated list of glob patterns to match. This option is *required*. The project name and `-.*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `*.zip` or `*.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

```
--keep=COUNT, -k COUNT
```

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

```
--dist-dir=DIR, -d DIR
```

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the
**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones:

```
setup.py rotate --match=.tar.gz --keep=3
```

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version:

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:

```
``saveopts`` - Save used options to a configuration file
```

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command):

```
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the `saveopts` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where `saveopts` is placed on the command line.

Configuration File Options

```
```

Open Source Used In Virtual Topology System 2.6.7 9906
Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================
This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names):

``setup.py setopt --command=build --option=compiler --set-value=mingw32``

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

``setup.py setopt -c install -o install_lib -r``

Options for the ``setopt`` command:
``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if `--remove` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _`test`:

``test`` - Build package and run a unittest suite
=============================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.
By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--q` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py --q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.::

    setup(  
      # ...  
      test_suite = "my_package.tests.test_all"  
    )

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. _upload:

`upload` - Upload source and/or egg distributions to PyPI

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

The `upload` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

Setuptools augments the `upload` command with support for `keyring` <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

    python -m keyring set <repository> <username>

    Password for `<username>` in `<repository>`: ******

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.
``upload_docs`` - Upload package documentation to PyPI
======================================================================

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils "register"
command -- just like the "upload" command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    | | |-- build
    | | | |-- -- html
    | | | | |-- index.html
    | | | |-- `-- tips_tricks.html
    | | |-- conf.py
    | |-- index.txt
    | `-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs``
command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`
must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful
defaults in the `setup.cfg` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The ``upload_docs`` command has the following options:
``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools
---------------------------------

Creating ``distutils`` Extensions
==================================

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`_ above for some more background on entry points.)

Adding Commands
---------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```
(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running ”install” or ”develop” with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the ”--command-packages” option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools’ own commands are installed: the setuptools project’s setup script defines entry points for them!

Adding `setup()` Arguments
----------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the ‘`distutils.setup_keywords`’ group. For example, if you wanted a `setup()` argument called ‘`bar_baz`’, you might add something like this to your distutils extension project’s setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it’s supplied. The ”Distribution” object will have the initial value of the attribute set to ”None”, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here’s an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```
Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument:

```python
def setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)```
This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. "foo_bar.txt"), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry_run`` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write_file()``, ``delete_file()``, and ``write_or_delete_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

### Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
.. code-block:: python
```

Open Source Used In Virtual Topology System 2.6.7 9914
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `"setup_requires"`. When you create a source distribution with the `"sdist"` command, setuptools automatically records what files were found in the `"SOURCES.txt"` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `"some/dir"` under the current directory should NOT be rendered as `"./some/dir"` or `"/somewhere/some/dir"`, but *always* as simply `"some/dir"`.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use `"distutils.log.warn()"` to inform the user of the missing program(s).

Subclassing `"Command"`
------------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX
Reusing `setuptools` Code

``ez_setup``
------------
XXX

``setuptools.archive_util``
---------------------------
XXX

``setuptools.sandbox``
----------------------
XXX

``setuptools.package_index``
----------------------------
XXX

Mailing List and Bug Tracker
============================

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt

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# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x` <https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>.

The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up Powershell and paste this command::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the PowerShell with Administrative privileges or you may choose to install a user-local installation::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.

Unix (wget)

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```
Note that you will may need to invoke the command with superuser privileges to install to the system Python::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, setuptools may be installed to a user-local path::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter them, install setuptools as follows::

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

`-----------------------------`

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `--O` with `--o`. For example::

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

`-----------------------------`

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_ and run setup.py with any supported distutils and Setuptools options. For example::

```bash
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

Use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially the section on custom installation locations.`
Downloads
==========

All setuptools downloads can be found at the project's home page in the Python Package Index. Scroll to the very bottom of the page to find the links.

In addition to the PyPI downloads, the development version of setuptools is available from the Bitbucket repo, and in-development versions of the 0.6 branch are available as well.

Uninstalling
============

On Windows, if Setuptools was installed using an .exe or .msi installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all setuptools* and distribute* files and directories from your system's site-packages directory (and any other sys.path directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`
* `The setuptools Developer's Guide`
* `The pkg_resources API reference`
* `The Internal Structure of Python Eggs`
Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

-------
Credits
-------

* The original design for the ```.egg``` format and the ```pkg_resources``` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ```pkg_resources```, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ```easy_install```, and supplied the doctests for the command-line ```.exe``` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation,
and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

-------------
Code of Conduct
-------------

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
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Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/PKG-INFO
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setuptools.egg-info/PKG-INFO
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/six.py
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/markers.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/utils.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/requirements.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/version.py
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setup.py

1.880 python-httplib2 0.9.1+dfsg-1

1.880.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: httplib2
Upstream-Contact: Joe Gregorio <joe@bitworking.org>
Source: http://code.google.com/p/httplib2/downloads/list

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

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

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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 */
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 * Retrieves constraint related meta data for the parameters of the given
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 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
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* 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</p>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine 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>
*
jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/past/PastValidatorForReadableInstant.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/internal/metadata/aggregated/GroupConversionHelper.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java
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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java

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*/

Found in path(s):
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-jar/org/hibernate/validator/internal/util/TypeHelper.java

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

That's all there is to it!
NAME
Devel::GlobalDestruction - Provides function returning the equivalent of
"${^GLOBAL_PHASE} eq 'DESTRUCT'' for older perls.

SYNOPSIS
package Foo;
use Devel::GlobalDestruction;

use namespace::clean; # to avoid having an "in_global_destruction" method

sub DESTROY {
    return if in_global_destruction;

    do_something_a_little_tricky();
}

DESCRIPTION
Perl's global destruction is a little tricky to deal with WRT finalizers
because it's not ordered and objects can sometimes disappear.

Writing defensive destructors is hard and annoying, and usually if
global destruction is happening you only need the destructors that free
up non process local resources to actually execute.

For these constructors you can avoid the mess by simply bailing out if
global destruction is in effect.

EXPORTS
This module uses Sub::Exporter::Progressive so the exports may be
renamed, aliased, etc. if Sub::Exporter is present.

in_global_destruction
    Returns true if the interpreter is in global destruction. In perl
    5.14+, this returns "${^GLOBAL_PHASE} eq 'DESTRUCT''", and on earlier
    perls, detects it using the value of "PL_main_cv" or "PL_dirty".

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Found in path(s):
* /opt/cola/permits/1144946596_1633499406.61/0/libdevel-globaldestruction-perl-0-13-orig-1-tar-gz/Devel-
  GlobalDestruction-0.13/README
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=head1 NAME
Devel::GlobalDestruction - Provides function returning the equivalent of
C<${^GLOBAL_PHASE} eq 'DESTRUCT'> for older perls.

=head1 SYNOPSIS
package Foo;
use Devel::GlobalDestruction;

use namespace::clean; # to avoid having an "in_global_destruction" method

sub DESTROY {
  return if in_global_destruction;

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For these constructors you can avoid the mess by simply bailing out if global
destruction is in effect.

=head1 EXPORTS
This module uses L<Sub::Exporter::Progressive> so the exports may be renamed, aliased, etc. if L<Sub::Exporter> is present.

=over 4

=item in_global_destruction

Returns true if the interpreter is in global destruction. In perl 5.14+, this returns C<${^GLOBAL_PHASE} eq 'DESTRUCT'>, and on earlier perls, detects it using the value of C<PL_main_cv> or C<PL_dirty>.

=back

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* /opt/cola/permits/1144946596_1633499406.61/0/libdevel-globaldestruction-perl-0-13-orig-1-tar-gz/Devel-GlobalDestruction-0.13/lib/Devel/GlobalDestruction.pm

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---

abstract: "Provides function returning the equivalent of C<${^GLOBAL_PHASE} eq 'DESTRUCT'> for older perls."
author:
- 'Yuval Kogman <nothingmuch@woobling.org>'
- 'Florian Ragwitz <rafl@debian.org>'
1.897 commons-compiler 3.0.9

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1.898 e2fsprogs 1.46.2-2
1.898.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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)"
@$(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
It is part of the main e2fsprogs distribution, which can be found at:

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cmd/krb5/iprop/iprop_hdr.h
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```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
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lib/libgss/g_dsp_status.c
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```

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lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
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lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

- src/lib/gssapi
- src/lib/gssapi/gssapi_err_generic.c
- src/lib/gssapi/mecghlue/g_accept_sec_context.c
- src/lib/gssapi/mecghlue/g_acquire_cred.c
- src/lib/gssapi/mecghlue/g_canon_name.c
- src/lib/gssapi/mecghlue/g_compare_name.c
- src/lib/gssapi/mecghlue/g_context_time.c
- src/lib/gssapi/mecghlue/g_delete_sec_context.c
Class: mechglue

And the initial implementation of incremental propagation, including
the following new or changed files:

```python
include/iprop_hdr.h
kadmin/server
```

And:

```python
include/iprop_hdr.h
kadmin/server
```

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.. parsed-literal::

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

.. parsed-literal::

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

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# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.

import os
import sys
import re
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

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

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Check for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*/.*\*/', '', line)
.. _mitK5license:

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.. include::  notice.rst

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */

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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
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
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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
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jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java

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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/access/annotation/Jsr250SecurityConfig.java
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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/core/userdetails/cache/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/access/prepost/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/access/prepost/MethodInvocationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/access/prepost/InterceptAspect.java
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* /opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
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 */
/**/
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be
* checked. May be null in which case implementations should return false, as the null
* condition can be checked explicitly in the expression.
* @param permission a representation of the permission object as supplied by the
* expression system. Not null.
* @return true if the permission is granted, false otherwise
*/

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/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/</a>
 * for more information.
 * For internal use only.
 * @author Luke Taylor
 * @since 3.0
 */

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Reviews the <code>Object</code> returned from a secure object invocation, being able to
modify the <code>Object</code> or throw an [link AccessDeniedException].

Typically used to ensure the principal is permitted to access the domain object
instance returned by a service layer bean. Can also be used to mutate the domain object
instance so the principal is only able to access authorised bean properties or
<code>Collection</code> elements.

Special consideration should be given to using an <code>AfterInvocationManager</code> on bean methods that modify a database. Typically an
<code>AfterInvocationManager</code> is used with read-only methods, such as
<code>public DomainObject getById(id)</code>. If used with methods that modify a
database, a transaction manager should be used to ensure any
<code>AccessDeniedException</code> will cause a rollback of the changes made by the
transaction.

@author Ben Alex

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*/

/opt/ws_local/PERMITS_SQL/1073564459_1595391252.79/0/spring-security-core-4-2-12-release-sources-2-
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* limitations under the License.
*/
/**
 * Determines if the [@link getAuthentication()] has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the [@link getAuthentication()], else
 * false
 */

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 */
/**
 * A token issued by [@link TokenService].
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * [@link TokenService] are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 */
* @author Ben Alex
* @since 2.0.1
*/

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1.914 libcache-fastmmap-perl 1.43-1build1
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=item I<set($Key, $Value, [ %Options ])>
Store specified key/value pair into cache

I<%Options> is optional, and is used by get_and_set() to control the locking behaviour. For now, you should probably ignore it unless you read the code to understand how it works.

This method returns true if the value was stored in the cache, false otherwise. See the PAGE SIZE AND KEY/VALUE LIMITS section for more details.

=head1 INCOMPATIBLE CHANGES

=item * From 1.15

=item *

Default share_file name is no-longer /tmp/sharefile, but /tmp/sharefile-$pid-$time. This ensures that different runs/processes don't interfere with each other, but means you may not connect up to the file you expect. You should be choosing an explicit name in most cases.

On Unix systems, you can pass in the environment variable TMPDIR to override the default directory of /tmp

=item *

The new option unlink_on_exit defaults to true if you pass a filename for the share_file which doesn't already exist. This means if you have one process that creates the file, and another that expects the file to be there, by default it won't be.

Otherwise the defaults seem sensible to cleanup unneeded share files rather than leaving them around to accumulate.

=back

=item * From 1.29
Default share_file name is no longer /tmp/sharefile-$pid-$time but /tmp/sharefile-$pid-$time-$random.

Before 1.31, if you were using raw_values => 0 mode, then the write_cb would be called with raw frozen data, rather than the thawed object. From 1.31 onwards, it correctly calls write_cb with the thawed object value (eg what was passed to the ->set() call in the first place)

Before 1.36, an alarm(10) would be set before each attempt to lock a page. The only purpose of this was to detect deadlocks, which should only happen if the Cache::FastMmap code was buggy, or a callback function in get_and_set() made another call into Cache::FastMmap.

However this added unnecessary extra system calls for every lookup, and for users using Time::HiRes, it could clobber any existing alarms that had been set with sub-second resolution.

So this has now been made an optional feature via the catch_deadlocks option passed to new.
L<MLDBM::Sync>, L<IPC::MM>, L<Cache::FileCache>, L<Cache::SharedMemoryCache>, L<DBI>, L<Cache::Mmap>, L<BerkeleyDB>

Latest news/details can also be found at:

L<http://cpan.robm.fastmail.fm/cachefastmmap/>

Available on github at:

L<https://github.com/robmueller/cache-fastmmap/>

=cut

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Found in path(s):
* /opt/cola/permits/1144946079_1633499407.26/0/libcache-fastmmap-perl-1-43-orig-1-tar-gz/Cache-FastMmap-1.43/lib/Cache/FastMmap.pm

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 * Automatically Created by Devel::PPPort on Wed Nov 19 19:24:25 2003 *
 * Do NOT edit this file directly! -- Edit PPPort.pm instead. *
 * Version 2.x, Copyright (C) 2001, Paul Marquess. *
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 * This code may be used and distributed under the same license as any *
 * version of Perl. *
 *
 * This version of ppport.h is designed to support operation with Perl *
 * installations back to 5.004, and has been tested up to 5.8.0. *
 */
* If this version of ppport.h is failing during the compilation of this
* module, please check if a newer version of Devel::PPPort is available
* on CPAN before sending a bug report.
*
* If you are using the latest version of Devel::PPPort and it is failing
* during compilation of this module, please send a report to perlbug@perl.com
*
* Include all following information:
*
* 1. The complete output from running "perl -V"
*
* 2. This file.
*
* 3. The name & version of the module you were trying to build.
*
* 4. A full log of the build that failed.
*
* 5. Any other information that you think could be relevant.
*
* For the latest version of this code, please retrieve the Devel::PPPort
* module from CPAN.
*
*/

Found in path(s):
* /opt/cola/permits/1144946079_1633499407.26/0/libcache-fastmmap-perl-1.43-orig-1-tar-gz/Cache-FastMmap-1.43/ppport.h
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* /opt/cola/permits/1144946079_1633499407.26/0/libcache-fastmmap-perl-1-43-orig-1-tar-gz/Cache-FastMmap-1.43/unix.c

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 *
 * mmap_cache
 *
 * Uses an mmap'ed file to act as a shared memory interprocess cache
 *
 * The C interface is quite explicit in it's use, in that you have to
 * call individual functions to hash a key, lock a page, and find a
 * value. This allows a simpler higher level interface to be written
 *
 * #include <mmap_cache.h>
 *
 * mmap_cache * cache = mmc_new();
 * cache->param = val;
 * mmc_init(cache);
 *
 * // Read a key
 *
 * // Hash get to find page and slot
 * mmc_hash(cache, (void *)key_ptr, (int)key_len, &hash_page, &hash_slot);
 * // Lock page
 * mmc_lock(cache, hash_page);
 * // Get pointer to value data
 * mmc_read(cache, hash_slot, (void *)key_ptr, (int)key_len, (void **)val_ptr, (int *)val_len, &flags);
 * // Unlock page
 * mmc_unlock(cache);
 *
 * // Write a key
* // Hash get to find page and slot
* mmc_hash(cache, (void *)key_ptr, (int)key_len, &hash_page, &hash_slot);
* // Lock page
* mmc_lock(cache, hash_page);
* // Get pointer to value data
* mmc_write(cache, hash_slot, (void *)key_ptr, (int)key_len, (void *)val_ptr, (int)val_len);
* // Unlock page
* mmc_unlock(cache);
*
* DESCRIPTION
*
* This class implements a shared memory cache through an mmap'ed file. It
* uses locking to ensure multiple processes can safely access the cache
* at the same time. It uses a basic LRU algorithm to keep the most used
* entries in the cache.
*
* It tries to be quite efficient through a number of means:
*
* It uses multiple pages within a file, and uses Fcntl to only lock
* a page at a time to reduce contention when multiple processes access
* the cache.
*
* It uses a dual level hashing system (hash to find page, then hash
* within each page to find a slot) to make most I<read> calls O(1) and
* fast
*
* On each I<write>, if there are slots and page space available, only
* the slot has to be updated and the data written at the end of the used
* data space. If either runs out, a re-organisation of the page is
* performed to create new slots/space which is done in an efficient way
*
* The locking is explicitly done in the C interface, so you can create
* a 'read_many' or 'write_many' function that reduces the number of
* locks required
*
* IMPLEMENTATION
*
* Each file is made up of a number of 'pages'. The number of
* pages and size of each page is specified when the class is
* constructed. These values are stored in the cache class
* and must be the same for each class connecting to the cache
* file.
*
* NumPages - Number of 'pages' in the cache
* PageSize - Size of each 'page' in the cache
*
The layout of each page is:

* Magic (4 bytes) - 0x92f7e3b1 magic page start marker

* NumSlots (4 bytes) - Number of hash slots in this page

* FreeSlots (4 bytes) - Number of free slots left in this page.
  * This includes all slots with a last access time of 0
  * (empty and don't search past) or 1 (empty, but keep searching
  * because deleted slot)

* OldSlots (4 bytes) - Of all the free slots, how many were in use
  * and are now deleted. This is slots with a last access time of 1

* FreeData (4 bytes) - Offset to free data area to place next item

* FreeBytes (4 bytes) - Bytes left in free data area

* N Reads (4 bytes) - Number of reads performed on this page

* N Read Hits (4 bytes) - Number of reads on this page that have hit
  * something in the cache

* Slots (4 bytes * NumSlots) - Hash slots

* Data (to end of page) - Key/value data

Each slot is made of:

* Offset (4 bytes) - offset from start of page to actual data. This
  * is 0 if slot is empty, 1 if was used but now empty. This is needed
  * so deletes don't require a complete rehash with the linear
  * searching method we use

Each data item is made of:

* LastAccess (4 bytes) - Unix time data was last accessed

* ExpireTime (4 bytes) - Unix time data should expire. This is 0 if it
  * should never expire

* HashValue (4 bytes) - Value key was hashed to, so we don't have to
  * rehash on a re-organisation of the hash table

* Flags (4 bytes) - Various flags

* KeyLen (4 bytes) - Length of key
* - ValueLen (4 bytes) - Length of value
* - Key (KeyLen bytes) - Key data
* - Value (ValueLen bytes) - Value data
*
* Each set/get/delete operation involves:
* - Find the page for the key
* - Lock the page
* - Read the page header
* - Find the hash slot for the key
*
* For get's:
*
* - Use linear probing to find correct key, or empty slot
*
* For set's:
*
* - Use linear probing to find empty slot
* - If not enough free slots, do an 'expunge' run
* - Store key/value at FreeData offset, update, and store in slot
* - If not enough space at FreeData offset, do an 'expunge' run
*   then store data
*
* For delete's:
*
* - Use linear probing to find correct key, or empty slot
* - Set slot to empty (data cleaned up in expunge run)
*
* An expunge run consists of:
*
* - Scan slots to find used key/value parts. Remove older items
* - If ratio used/free slots too high, increase slot count
* - Compact key/value data into one memory block
* - Restore and update offsets in slots
*
*/

Found in path(s):
* /opt/cola/permits/1144946079_1633499407.26/0/libcache-fastmmap-perl-1-43-orig-1-tar-gz/Cache-FastMmap-1.43/mmap_cache.h

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Cache::FastMmap

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

A shared memory cache through an mmap'ed file. It's core is written
in C for performance. It uses fcntl locking to ensure multiple processes can safely access the cache at the same time. It uses a basic LRU algorithm to keep the most used entries in the cache.

INSTALLATION

To install this module type the following:

perl Makefile.PL  
maker  
maker test  
maker install

DEPENDENCIES

Storable if you want to store complex structures

AUTHOR

Rob Mueller <cpan@robm.fastmail.fm>

DOCUMENTATION

See the POD documentation. Viewable online at CPAN

http://search.cpan.org/~robm/Cache-FastMmap/

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1.915 gnupg 1.4.20 1ubuntu3.3
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Version 2, June 1991

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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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program 'Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

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The End

1.925 audience-annotations 0.5.0

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1.928 slf4j 1.7.5

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### Jdom-contrib version 1.1.3

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The textbook (containing a proof that the shuffle is uniformly random) is available here: http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

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jackson-jq
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# Jackson JSON processor

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

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When upgrading Lucene-Java Jars, remember to generate new Analysis
factories for any new Tokenizers or TokenFilters. See the wiki for details...

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It specifically implements StAX 1.0 API:
which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007.
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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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Byte Buddy is a code generation and manipulation library for creating and modifying Java
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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied
from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000"/>
----

[IMPORTANT]
====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.
====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e. you cannot copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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May 22, 2015

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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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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.
Copying-policy: BeerWare: If you have the time and money, send me a bottle
    of your favourite beer. If not, just send me a mail or
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    author's name where you find it.

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

1.947 jre 1.8.0u181

1.947.1 Available under license:

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Little Color Management System

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This package was debianized by Luis Rodriguez <mcgrof@gmail.com> on Thu, 22 Jan 2009 16:00:00 +0100.

The wireless-regdb packages was downloaded from <http://wireless.kernel.org/download/wireless-regdb/>

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1.965 vixie-cron 3.0pl1-128ubuntu2

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 */
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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\" */
\"
\" $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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\" */
\" *
\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
\" *

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  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
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  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
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  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
  * /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c
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That's all there is to it!

=heading1 NAME
HTTP::Cookies::Netscape - access to Netscape cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Netscape;
$cookie_jar = HTTP::Cookies::Netscape->new(
    file => "c:/program files/netscape/users/ZombieCharity/cookies.txt",
);
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> that reads (and optionally writes) Netscape/Mozilla cookie files.

See the documentation for L<HTTP::Cookies>.

=head1 CAVEATS

Please note that the Netscape/Mozilla cookie file format can't store all the information available in the Set-Cookie2 headers, so you will probably lose some information if you save in this format.

At time of writing, this module seems to work fine with Mozilla Phoenix/Firebird.

=head1 SEE ALSO

L<HTTP::Cookies::Microsoft>

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=cut

Found in path(s):
*/opt/cola/permits/1143253097_1615553146.50/libhttp-cookies-perl-6-01-orig-1.tar.gz/HTTP-Cookies-6.01/lib/HTTP/Cookies/Netscape.pm
No license file was found, but licenses were detected in source scan.

license: perl
NAME
   HTTP::Cookies - HTTP cookie jars

SYNOPSIS
   use HTTP::Cookies;
   $cookie_jar = HTTP::Cookies->new(
       file => "$ENV['HOME']/lwp_cookies.dat",
       autosave => 1,
   );

   use LWP;
   my $browser = LWP::UserAgent->new;
   $browser->cookie_jar($cookie_jar);

Or for an empty and temporary cookie jar:

   use LWP;
   my $browser = LWP::UserAgent->new;
   $browser->cookie_jar( [] );

DESCRIPTION
   This class is for objects that represent a "cookie jar" -- that is, a
database of all the HTTP cookies that a given LWP::UserAgent object
knows about.

Cookies are a general mechanism which server side connections can use to
both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the new
style cookies described in *RFC 2965*. The two variants of cookies are
supposed to be able to coexist happily.

Instances of the class *HTTP::Cookies* are able to store a collection of
Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in *HTTP::Request* objects. The
state of a *HTTP::Cookies* object can be saved in and restored from
files.

METHODS
   The following methods are provided:

   $cookie_jar = HTTP::Cookies->new
The constructor takes hash style parameters. The following parameters are recognized:

- **file**: name of the file to restore cookies from and save cookies to
- **autosave**: save during destruction (bool)
- **ignore_discard**: save even cookies that are requested to be discarded (bool)
- **hide_cookie2**: do not add Cookie2 header to requests

Future parameters might include (not yet implemented):

- **max_cookies**: 300
- **max_cookies_per_domain**: 20
- **max_cookie_size**: 4096
- **no_cookies**: list of domain names that we never return cookies to

```perl
$cookie_jar->add_cookie_header( $request )
```

The `add_cookie_header()` method will set the appropriate `Cookie:`-header for the `HTTP::Request` object given as argument. The `$request` must have a valid `url` attribute before this method is called.

```perl
$cookie_jar->extract_cookies( $response )
```

The `extract_cookies()` method will look for `Set-Cookie:` and `Set-Cookie2:` headers in the `HTTP::Response` object passed as argument. Any of these headers that are found are used to update the state of the `$cookie_jar`.

```perl
$cookie_jar->set_cookie( $version, $key, $val, $path, $domain, $port, $path_spec, $secure, $maxage, $discard, %rest )
```

The `set_cookie()` method updates the state of the `$cookie_jar`. The `$key`, `$val`, `$domain`, `$port` and `$path` arguments are strings. The `$path_spec`, `$secure`, `$discard` arguments are boolean values. The `$maxage` value is a number indicating number of seconds that this cookie will live. A value <= 0 will delete this cookie. `%rest` defines various other attributes like "Comment" and "CommentURL".

```perl
$cookie_jar->save
```

```perl
$cookie_jar->save( $file )
```

This method file saves the state of the `$cookie_jar` to a file. The state can then be restored later using the `load()` method. If a filename is not specified we will use the name specified during construction. If the attribute `ignore_discard` is set, then we will even save cookies that are marked to be discarded.

The default is to save a sequence of "Set-Cookie3" lines. "Set-Cookie3" is a proprietary LWP format, not known to be compatible with any browser. The `HTTP::Cookies::Netscape` sub-class
can be used to save in a format compatible with Netscape.

$cookie_jar->load
$cookie_jar->load( $file )
This method reads the cookies from the file and adds them to the
$cookie_jar. The file must be in the format written by the save() method.

$cookie_jar->revert
This method empties the $cookie_jar and re-loads the $cookie_jar from the last save file.

$cookie_jar->clear
$cookie_jar->clear( $domain )
$cookie_jar->clear( $domain, $path )
$cookie_jar->clear( $domain, $path, $key )
Invoking this method without arguments will empty the whole
$cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

$cookie_jar->clear_temporary_cookies
Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true 'discard' flag. To be called when the user agent shuts down according to RFC 2965.

$cookie_jar->scan( \&callback )
The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

0 version
1 key
2 val
3 path
4 domain
5 port
6 path_spec
7 secure
8 expires
9 discard
10 hash

$cookie_jar->as_string
$cookie_jar->as_string( $skip_discardables )
The as_string() method will return the state of the $cookie_jar
represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the *Discard* attribute.

SEE ALSO
HTTP::Cookies::Netscape, HTTP::Cookies::Microsoft

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Found in path(s):
* /opt/cola/permits/1143253097_1615553146.50/libhttp-cookies-perl-6-01-orig-1-tar-gz/HTTP-Cookies-6.01/README
No license file was found, but licenses were detected in source scan.

=head1 NAME
HTTP::Cookies - HTTP cookie jars

=head1 SYNOPSIS

use HTTP::Cookies;
$cookie_jar = HTTP::Cookies->new(
    file => "$ENV{'HOME'}/lwp_cookies.dat",
    autosave => 1,
);

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar($cookie_jar);

Or for an empty and temporary cookie jar:

use LWP;
my $browser = LWP::UserAgent->new;
$browser->cookie_jar( {} );

=head1 DESCRIPTION

This class is for objects that represent a "cookie jar" -- that is, a database of all the HTTP cookies that a given LWP::UserAgent object knows about.

Cookies are a general mechanism which server side connections can use to both store and retrieve information on the client side of the
connection. For more information about cookies refer to
<URL:http://curl.haxx.se/rfc/cookie_spec.html> and
<URL:http://www.cookiecentral.com/>. This module also implements the
new style cookies described in I<RFC 2965>.
The two variants of cookies are supposed to be able to coexist happily.

Instances of the class I<HTTP::Cookies> are able to store a collection
of Set-Cookie2: and Set-Cookie: headers and are able to use this
information to initialize Cookie-headers in I<HTTP::Request> objects.
The state of a I<HTTP::Cookies> object can be saved in and restored from
files.

=head1 METHODS

The following methods are provided:

=over 4

=item $cookie_jar = HTTP::Cookies->new

The constructor takes hash style parameters. The following
parameters are recognized:

file: name of the file to restore cookies from and save cookies to
autosave: save during destruction (bool)
ignore_discard: save even cookies that are requested to be discarded (bool)
hide_cookie2: do not add Cookie2 header to requests

Future parameters might include (not yet implemented):

max_cookies 300
max_cookies_per_domain 20
max_cookie_size 4096

no_cookies list of domain names that we never return cookies to

=item $cookie_jar->add_cookie_header( $request )

The add_cookie_header() method will set the appropriate Cookie:-header
for the I<HTTP::Request> object given as argument. The $request must
have a valid url attribute before this method is called.

=item $cookie_jar->extract_cookies( $response )

The extract_cookies() method will look for Set-Cookie: and
Set-Cookie2: headers in the I<HTTP::Response> object passed as
argument. Any of these headers that are found are used to update
the state of the $cookie_jar.
The set_cookie() method updates the state of the $cookie_jar. The $key, $val, $domain, $port and $path arguments are strings. The $path_spec, $secure, $discard arguments are boolean values. The $maxage value is a number indicating number of seconds that this cookie will live. A value $\leq 0$ will delete this cookie. %rest defines various other attributes like "Comment" and "CommentURL".

This method file saves the state of the $cookie_jar to a file. The state can then be restored later using the load() method. If a filename is not specified we will use the name specified during construction. If the attribute I<ignore_discard> is set, then we will even save cookies that are marked to be discarded.

The default is to save a sequence of "Set-Cookie3" lines. "Set-Cookie3" is a proprietary LWP format, not known to be compatible with any browser. The I<HTTP::Cookies::Netscape> sub-class can be used to save in a format compatible with Netscape.

This method reads the cookies from the file and adds them to the $cookie_jar. The file must be in the format written by the save() method.

This method empties the $cookie_jar and re-loads the $cookie_jar from the last save file.

Invoking this method without arguments will empty the whole
$cookie_jar. If given a single argument only cookies belonging to that domain will be removed. If given two arguments, cookies belonging to the specified path within that domain are removed. If given three arguments, then the cookie with the specified key, path and domain is removed.

=itm $cookie_jar->clear_temporary_cookies

Discard all temporary cookies. Scans for all cookies in the jar with either no expire field or a true C<discard> flag. To be called when the user agent shuts down according to RFC 2965.

=itm $cookie_jar->scan( \&callback )

The argument is a subroutine that will be invoked for each cookie stored in the $cookie_jar. The subroutine will be invoked with the following arguments:

0  version
1  key
2  val
3  path
4  domain
5  port
6  path_spec
7  secure
8  expires
9  discard
10  hash

=itm $cookie_jar->as_string

=itm $cookie_jar->as_string( $skip_discardables )

The as_string() method will return the state of the $cookie_jar represented as a sequence of "Set-Cookie3" header lines separated by "\n". If $skip_discardables is TRUE, it will not return lines for cookies with the I<Discard> attribute.

=back

=head1 SEE ALSO

L<HTTP::Cookies::Netscape>, L<HTTP::Cookies::Microsoft>

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* /opt/cola/permits/1143253097_1615553146.50/lib/http-cookies-perl-6-01-orig-1-tar-gz/HTTP-Cookies-6.01/lib/HTTP/Cookies.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTTP::Cookies::Microsoft - access to Microsoft cookies files

=head1 SYNOPSIS

use LWP;
use HTTP::Cookies::Microsoft;
use Win32::TieRegistry(Delimiter => "/");
my $cookies_dir = $Registry->
    {"CUser/Software/Microsoft/Windows/CurrentVersion/Explorer/Shell Folders/Cookies"};

$cookie_jar = HTTP::Cookies::Microsoft->new(
    file     => "$cookies_dir\index.dat",
    'delayload' => 1,
);
my $browser = LWP::UserAgent->new;
(browser->cookie_jar( $cookie_jar );

=head1 DESCRIPTION

This is a subclass of C<HTTP::Cookies> which
loads Microsoft Internet Explorer 5.x and 6.x for Windows (MSIE)
cookie files.

See the documentation for L<HTTP::Cookies>.

=head1 METHODS

The following methods are provided:

=over 4

=item $cookie_jar = HTTP::Cookies::Microsoft->new;

The constructor takes hash style parameters. In addition
to the regular HTTP::Cookies parameters, HTTP::Cookies::Microsoft
recognizes the following:
delayload: delay loading of cookie data until a request is actually made. This results in faster runtime unless you use most of the cookies since only the domain's cookie data is loaded on demand.

=head1 CAVEATS

Please note that the code DOESN'T support saving to the MSIE cookie file format.

=head1 AUTHOR

Johnny Lee <typo_pl@hotmail.com>

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=cut

Found in path(s):
*/opt/cola/permits/1143253097_1615553146.50/lib_http-cookies-perl-6-01-orig-1-tar-gz/HTTP-Cookies-6.01/lib/HTTP/Cookies/Microsoft.pm

1.976 config-types 2.5.0-b32
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That's all there is to it!
Upstream source http://invisible-island.net/dialog/dialog.html

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

Files: *.c *.h
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This script is compatible with the BSD install script, but was written
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=head1 NAME

MooX::Types::MooseLike::Base - A set of basic Moose-like types for Moo

=head1 SYNOPSIS

package MyPackage;
use Moo;
use MooX::Types::MooseLike::Base qw(all);

has "beers_by_day_of_week" => (    isa => HashRef );

has "current_BAC" => (    isa => Num );

# Also supporting is_Sype. For example, is_Int() can be used as follows
has 'legal_age' => (    is => 'ro',
  isa => sub { die "$_[0] is not of legal age"
    unless (is_Int($_[0]) && $_[0] > 17) },
);
These types provide a check that the \texttt{contact} attribute is a \texttt{hash} reference, and that the \texttt{guest_list} is an \texttt{array of hash} references.

=head1 TYPES (1st class functions - return a coderef)

=head2 Any

Any type (test is always true)

=head2 Item

Synonymous with Any type

=head2 Undef

A type that is not defined

=head2 Defined

A type that is defined

=head2 Bool

A boolean 1|0 type

=head2 Value

A non-reference type

=head2 Ref

A reference type

=head2 Str

A non-reference type where a reference to it is a SCALAR

=head2 Num

A number type

=head2 Int

An integer type

=head2 ArrayRef

An ArrayRef (ARRAY) type
HashRef

A HashRef (HASH) type

CodeRef

A CodeRef (CODE) type

RegexpRef

A regular expression reference type

GlobRef

A glob reference type

FileHandle

A type that is either a builtin perl filehandle or an IO::Handle object

Object

A type that is an object (think blessed)

PARAMETERIZED TYPES

Parameterizing Types With a Single Type

The following types can be parameterized with other types.

ArrayRef

For example, ArrayRef[HashRef]

HashRef

ScalarRef

Maybe

For example, Maybe[Int] would be an integer or undef

Parameterizing Types With Multiple Types

AnyOf

Check if the attribute is any of the listed types (think union).
Takes a list of types as the argument, for example:

\[\text{isa} \Rightarrow \text{AnyOf[Int, ArrayRef[Int], HashRef[Int]]}\]

Note: AnyOf is passed an ArrayRef[CodeRef]

=head3 AllOf

Check if the attribute is all of the listed types (think intersection).
Takes a list of types as the argument. For example:

\[\text{isa} \Rightarrow \text{AllOf[InstanceOf['Human'], ConsumerOf['Air'], HasMethods['breath', 'dance']]}\]

=head2 Parameterizing Types With (Multiple) Strings

In addition, we have some parameterized types that take string arguments.

=head3 InstanceOf

Check if the attribute is an object instance of one or more classes.
Uses `blessed` and `isa` to do so.
Takes a list of class names as the argument. For example:

\[\text{isa} \Rightarrow \text{InstanceOf['MyClass', 'MyOtherClass']}\]

Note: InstanceOf is passed an ArrayRef[Str]

=head3 ConsumerOf

Check if the attribute is blessed and consumes one or more roles.
Uses `blessed` and `does` to do so.
Takes a list of role names as the arguments. For example:

\[\text{isa} \Rightarrow \text{ConsumerOf['My::Role', 'My::AnotherRole']}\]

=head3 HasMethods

Check if the attribute is blessed and has one or more methods.
Uses `blessed` and `can` to do so.
Takes a list of method names as the arguments. For example:

\[\text{isa} \Rightarrow \text{HasMethods[qw/postulate contemplate liberate/]}\]

=head3 Enum
Check if the attribute is one of the enumerated strings.
Takes a list of possible string values. For example:

    isa => Enum['rock', 'spock', 'paper', 'lizard', 'scissors']

=head1 SEE ALSO

L<MooX::Types::MooseLike::Numeric> - an example of building subtypes.

L<MooX::Types::SetObject> - an example of building parameterized types.

L<MooX::Types::MooseLike::Email>, L<MooX::Types::MooseLike::DateTime>

=head1 AUTHOR

Mateu Hunter C<hunter@missoula.org>

=head1 THANKS

mst has provided critical guidance on the design

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NAME
MooX::Types::MooseLike - some Moosish types and a type builder

SYNOPSIS

    package MyApp::Types;
    use MooX::Types::MooseLike;
    use base qw(Exporter);
    our @EXPORT_OK = ();

    # Define some types
    my $defs = [

name => 'MyType',
test => sub { predicate($_[0]) },
message => sub { "$_[0] is not the type we want!" }
],
{
    name => 'VarChar',
test => sub {
        my ($value, $param) = @_; 
        length($value) <= $param;
    },
    message => sub { "$_[0] is too large! It should be less than or equal to $_[1]." }
};

# Make the types available - this adds them to @EXPORT_OK automatically.
MooX::Types::MooseLike::register_types($defs, __PACKAGE__);

...

# Somewhere in code that uses the type
package MyApp::Foo;
use Moo;
use MyApp::Types qw(MyType VarChar);

has attribute => (
    is => 'ro',
    isa => MyType,
);

has string => (
    is => 'ro',
    isa => VarChar[25]
);

DESCRIPTION
This module provides a possibility to build your own set of Moose-like
types. These custom types can then be used to describe fields in
Moo-based classes.

See MooX::Types::MooseLike::Base for a list of available base types. Its
source also provides an example of how to build base types, along with
both parameterizable and non-parameterizable.

FUNCTIONS
register_types
register_types( types, package, moose_namespace )

Install the given types within the package. This makes the types
automatically exportable by adding them to @EXPORT_OK of the package.
Types are expected to be an array ref where every type is of the following format:

```perl
{
  name            => 'MyType',
  test            => sub { check_the_value_somewhow($_[0]) },
  message         => sub { "$_[0] is not the type we want!" },
  subtype_of      => 'SomeParentType',       # Optional
  from            => 'Some::Parent::CoolTypes',  # Optional
  parameterizable => sub { ... },                # Optional
  inflate         => sub { ... },                # Optional
}
```

A type can be declared with a reference (*subtype_of*) to some previously declared type. In this case the new type will inherit the behaviour of the referenced type.

The referenced type can come either from the same package or from a third party package:

```perl
MooX::Types::MooseLike::register_types([{
  name       => 'GreaterThan10',
  subtype_of => 'Int',
  from       => 'MooX::Types::MooseLike::Base',
  test       => sub { $_[0] > 10 },
  message    => sub { 'not greater than 10' },
}], __PACKAGE__);
```

```perl
MooX::Types::MooseLike::register_types([{
  name       => 'Between10And20',
  subtype_of => 'GreaterThan10',
  from       => __PACKAGE__,
  test       => sub { $_[0] < 20 },
  message    => sub { 'not an integer between 10 and 20' },
}], __PACKAGE__);
```

```perl
MooX::Types::MooseLike::register_types([{
  name       => 'Between10And30',
  subtype_of => GreaterThan10(),
  test       => sub { $_[0] < 30 },
  message    => sub { 'not an integer between 10 and 30' },
}], __PACKAGE__);
```

`exception_message`

`exception_message( value, part_of_the_exception_string )`

Helper function to be used in a type definition:
{ 
... 
message => sub { return exception_message($_[0], 'a HashRef' ), 
... 
}

In the event of <value> mismatching the type constraints it produces the message:

"<value> is not a HashRef!"

inflate_type
inflate_type( coderef )

Inflates the type to a Moose type. Requires Moose.

SEE ALSO
MooX::Types::MooseLike::Numeric - an example of building subtypes.

MooX::Types::SetObject - an example of building parameterized types.

MooX::Types::MooseLike::Email, MooX::Types::MooseLike::DateTime

Type::Tiny - another implementation of type constraints. Compatible with
Moo, Moose and Mouse.

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---
abstract: 'some Moosish types and a type builder'
author:
- 'mateu - Mateu X. Hunter (cpan:MATEU) <hunter@missoula.org>'
build_requires:
  Moo: '1.004002'
  Test::Fatal: '0.003'
  Test::More: '0.96'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: MooX-Types-MooseLike
no_index:
directory:
  - t
  - inc
recommends:
  strictures: '2'
requires:
  Module::Runtime: '0.014'
resources:
  IRC: irc://irc.perl.org/#web-simple
  bugtracker: http://rt.cpan.org/NoAuth/Bugs.html?Dist=MooX-Types-MooseLike
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NAME

MooX::Types::MooseLike - some Moosish types and a type builder

SYNOPSIS

package MyApp::Types;
use MooX::Types::MooseLike;
use base qw(Exporter);
our @EXPORT_OK = ();

# Define some types
my $defs = [{
    name => 'MyType',
    test => sub { predicate($_[0]) },
    message => sub { "$_[0] is not the type we want!" },
},
    { name => 'VarChar',
      test => sub {
        my ($value, $param) = @_;
        length($value) <= $param;
      },
      message => sub { "$_[0] is too large! It should be less than or equal to $_[1]." }
    }];

# Make the types available - this adds them to @EXPORT_OK automatically.
MooX::Types::MooseLike::register_types($defs, __PACKAGE__);
This module provides a possibility to build your own set of Moose-like types. These custom types can then be used to describe fields in Moo-based classes.

See L<MooX::Types::MooseLike::Base> for a list of available base types.
Its source also provides an example of how to build base types, along with both parameterizable and non-parameterizable.

=head1 FUNCTIONS

=head2 register_types

B<register_types( types, package, moose_namespace )>

Install the given types within the package. This makes the types automatically exportable by adding them to @EXPORT_OK of the package. Types are expected to be an array ref where every type is of the following format:

```perl
{
    name => 'MyType',
    test => sub { check_the_value_somehow($_[0]) },
    message => sub { "$_[0] is not the type we want!" },
    subtype_of => 'SomeParentType',           # Optional
    from => 'Some::Parent::CoolTypes',  # Optional
    parameterizable => sub { ... },                # Optional
    inflate => sub { ... },                # Optional
}
```

A type can be declared with a reference (I<subtype_of>) to some previously declared type. In this case the new type will inherit the behaviour of the referenced type.

The referenced type can come either from the same package or from a third party package:

```perl
MooX::Types::MooseLike::register_types([{
    name => 'GreaterThan10',
    subtype_of => 'Int',
    from => 'MooX::Types::MooseLike::Base',
    test => sub { $_[0] > 10 },
    message => sub { 'not greater than 10' },
}, __PACKAGE__);
```

```perl
MooX::Types::MooseLike::register_types([{
    name => 'Between10And20',
    subtype_of => 'GreaterThan10',
    from => __PACKAGE__,
    test => sub { $_[0] < 20 },
    message => sub { 'not an integer between 10 and 20' },
}, __PACKAGE__);
```

```perl
MooX::Types::MooseLike::register_types([{
    name => 'Between10And20',
    subtype_of => 'GreaterThan10',
    from => __PACKAGE__,
    test => sub { $_[0] < 20 },
    message => sub { 'not an integer between 10 and 20' },
}, __PACKAGE__);
```

```perl
MooX::Types::MooseLike::register_types([{
    name => 'Between10And20',
    subtype_of => 'GreaterThan10',
    from => __PACKAGE__,
    test => sub { $_[0] < 20 },
    message => sub { 'not an integer between 10 and 20' },
}, __PACKAGE__);
```
name => 'Between10And30',
subtype_of => GreaterThan10(),
test => sub { $_[0] < 30 },
message => sub { 'not an integer between 10 and 30' },
}; __PACKAGE__;

=head2 exception_message

B<exception_message( value, part_of_the_exception_string )>

Helper function to be used in a type definition:

{
  ...
  message => sub { return exception_message($_[0], 'a HashRef' ),
  ...
}

In the event of <value> mismatching the type constraints it produces the message:

"<value> is not a HashRef!"

=head2 inflate_type

B<inflate_type( coderef )>

Inflates the type to a Moose type. Requires Moose.

=head1 SEE ALSO

L<MooX::Types::MooseLike::Numeric> - an example of building subtypes.

L<MooX::Types::SetObject> - an example of building parameterized types.

L<MooX::Types::MooseLike::Email>, L<MooX::Types::MooseLike::DateTime>

L<Type::Tiny> - another implementation of type constraints. Compatible with L<Moo>, L<Moose> and L<Mouse>.

=head1 AUTHOR

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=cut

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* /opt/cola/permits/1144946815_1633499463.42/0/libmoox-types-mooselike-perl-0-29-orig-1-tar-gz/MooX-Types-MooseLike-0.29/lib/MooX/Types/MooseLike.pm

1.989 python-iniparse 0.4-6.ph3

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

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

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

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1.991 libdigest-sha-perl 5.95-2build1
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/*
 * sha64bit.h: placeholder values for 64-bit data and routines
 *
 * Ref: NIST FIPS PUB 180-4 Secure Hash Standard
 *
 * Copyright (C) 2003-2015 Mark Shelor, All Rights Reserved
 *
 * Version: 5.95
 * Sat Jan 10 12:15:36 MST 2015
 *
 * The following macros supply placeholder values that enable the
 * sha.c module to successfully compile when 64-bit integer types
 * aren't present.
 *
 * They are appropriately redefined in sha64bit.c if the compiler
 * provides a 64-bit type (i.e. when SHA_384_512 is defined).
 *
 */

Found in path(s):
* /opt/cola/permits/1144946930_1633499446.54/0/libdigest-sha-perl-5-95-orig-1-tar-gz/Digest-SHA-5.95/src/sha64bit.h
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Found in path(s):
* /opt/cola/permits/1144946930_1633499446.54/0/libdigest-sha-perl-5-95-orig-1-tar-gz/Digest-SHA-5.95/META.yml
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/*
 * sha.c: routines to compute SHA-1/224/256/384/512 digests
 *
Digest::SHA - Perl extension for SHA-1/224/256/384/512

In programs:

# Functional interface

use Digest::SHA qw(sha1 sha1_hex sha1_base64 ...);

$digest = sha1($data);
$digest = sha1_hex($data);
$digest = sha1_base64($data);

$digest = sha256($data);
$digest = sha384_hex($data);
$digest = sha512_base64($data);

# Object-oriented

use Digest::SHA;

$sha = Digest::SHA->new($alg);

$sha->add($data); # feed data into stream
$sha->addfile(*F);
$sha->addfile($filename);

$sha->add_bits($bits);
$sha->add_bits($data, $nbits);

$sha_copy = $sha->clone; # make copy of digest object
$state = $sha->getstate; # save current state to string
$sha->putstate($state); # restore previous $state

$digest = $sha->digest; # compute digest
$digest = $sha->hexdigest;
$digest = $sha->b64digest;

From the command line:

$ shasum files
$ shasum --help

=head1 SYNOPSIS (HMAC-SHA)

# Functional interface only

use Digest::SHA qw(hmac_sha1 hmac_sha1_hex ...);

$digest = hmac_sha1($data, $key);
$digest = hmac_sha224_hex($data, $key);
$digest = hmac_sha256_base64($data, $key);

=head1 ABSTRACT

Digest::SHA is a complete implementation of the NIST Secure Hash Standard. It gives Perl programmers a convenient way to calculate SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224, and SHA-512/256 message digests. The module can handle all types of input, including partial-byte data.

=head1 DESCRIPTION
Digest::SHA is written in C for speed. If your platform lacks a C compiler, you can install the functionally equivalent (but much slower) L<Digest::SHA::PurePerl> module.

The programming interface is easy to use: it's the same one found in CPAN's L<Digest> module. So, if your applications currently use L<Digest::MD5> and you'd prefer the stronger security of SHA, it's a simple matter to convert them.

The interface provides two ways to calculate digests: all-at-once, or in stages. To illustrate, the following short program computes the SHA-256 digest of "hello world" using each approach:

```perl
use Digest::SHA qw(sha256_hex);

$data = "hello world";
@frags = split(/\/, $data);

# all-at-once (Functional style)
$digest1 = sha256_hex($data);

# in-stages (OOP style)
$state = Digest::SHA->new(256);
for (@frags) { $state->add($_) }
$digest2 = $state->hexdigest;

print $digest1 eq $digest2 ? "whew!\n" : "oops!\n";
```

To calculate the digest of an n-bit message where I<n> is not a multiple of 8, use the I<add_bits()> method. For example, consider the 446-bit message consisting of the bit-string "110" repeated 148 times, followed by "11". Here's how to display its SHA-1 digest:

```perl
use Digest::SHA;
$bits = "110" x 148 . "11";
$sha = Digest::SHA->new(1)->add_bits($bits);
print $sha->hexdigest, "\n";
```

Note that for larger bit-strings, it's more efficient to use the two-argument version I<add_bits($data, $nb)>, where I<$data> is in the customary packed binary format used for Perl strings.

The module also lets you save intermediate SHA states to a string. The I<getstate()> method generates portable, human-readable text describing the current state of computation. You can subsequently restore that
state with \texttt{putstate()}> to resume where the calculation left off.

To see what a state description looks like, just run the following:

\begin{verbatim}
use Digest::SHA;
print Digest::SHA-&gt;new-&gt;add("Shaw" x 1962)-&gt;getstate;
\end{verbatim}

As an added convenience, the \texttt{Digest::SHA} module offers routines to calculate keyed hashes using the \texttt{HMAC-SHA-1/224/256/384/512} algorithms. These services exist in functional form only, and mimic the style and behavior of the \texttt{sha()}, \texttt{sha_hex()}, and \texttt{sha_base64()}> functions.

\begin{verbatim}
# Test vector from draft-ietf-ipsec-ciph-sha-256-01.txt
use Digest::SHA qw(hmac_sha256_hex);
print hmac_sha256_hex("Hi There", chr(0x0b) x 32), "n";
\end{verbatim}

=head1 UNICODE AND SIDE EFFECTS

Perl supports Unicode strings as of version 5.6. Such strings may contain wide characters, namely, characters whose ordinal values are greater than 255. This can cause problems for digest algorithms such as SHA that are specified to operate on sequences of bytes.

The rule by which \texttt{Digest::SHA} handles a Unicode string is easy to state, but potentially confusing to grasp: the string is interpreted as a sequence of byte values, where each byte value is equal to the ordinal value (viz. code point) of its corresponding Unicode character. That way, the Unicode string 'abc' has exactly the same digest value as the ordinary string 'abc'.

Since a wide character does not fit into a byte, the \texttt{Digest::SHA} routines croak if they encounter one. Whereas if a Unicode string contains no wide characters, the module accepts it quite happily. The following code illustrates the two cases:

\begin{verbatim}
$str1 = pack('U*', (0..255));
print sha1_hex($str1);# ok

$str2 = pack('U*', (0..256));
print sha1_hex($str2);# croaks
\end{verbatim}

Be aware that the digest routines silently convert UTF-8 input into its equivalent byte sequence in the native encoding (cf. \texttt{utf8::downgrade}). This side effect influences only the way Perl stores the data internally, but otherwise leaves the actual value of the data intact.
NIST acknowledges that the work of Prof. Xiaoyun Wang constitutes a practical collision attack on SHA-1. Therefore, NIST encourages the rapid adoption of the SHA-2 hash functions (e.g. SHA-256) for applications requiring strong collision resistance, such as digital signatures.


By convention, CPAN Digest modules do B<not> pad their Base64 output. Problems can occur when feeding such digests to other software that expects properly padded Base64 encodings.

For the time being, any necessary padding must be done by the user. Fortunately, this is a simple operation: if the length of a Base64-encoded digest isn’t a multiple of 4, simply append “=” characters to the end of the digest until it is:

```
while (length($b64_digest) % 4) {
    $b64_digest .= '=';
}
```

To illustrate, I<sha256_base64("abc")> is computed to be

```
ungWv48Bz+pBQUDeXa4iI7ADYtaOWF3qctBD/YfIAFa0
```

which has a length of 43. So, the properly padded version is

```
ungWv48Bz+pBQUDeXa4iI7ADYtaOWF3qctBD/YfIAFa0=
```

None by default.

Provided your C compiler supports a 64-bit type (e.g. the I<long long> of C99, or I<_int64> used by Microsoft C/C++), all of these functions will be available for use. Otherwise, you won’t be able to perform the SHA-384 and SHA-512 transforms, both of which require 64-bit operations.

I<Functional style>
=item B<sha1($data, ...)>
=item B<sha224($data, ...)>
=item B<sha256($data, ...)>
=item B<sha384($data, ...)>
=item B<sha512($data, ...)>
=item B<sha512224($data, ...)>
=item B<sha512256($data, ...)>

Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a binary string.

=item B<sha1_hex($data, ...)>
=item B<sha224_hex($data, ...)>
=item B<sha256_hex($data, ...)>
=item B<sha384_hex($data, ...)>
=item B<sha512_hex($data, ...)>
=item B<sha512224_hex($data, ...)>
=item B<sha512256_hex($data, ...)>

Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a hexadecimal string.

=item B<sha1_base64($data, ...)>
=item B<sha224_base64($data, ...)>
=item B<sha256_base64($data, ...)>
=item B<sha384_base64($data, ...)>
=item B<sha512_base64($data, ...)>
=item B<sha512224_base64($data, ...)>
=item B<sha512256_base64($data, ...)>

Logically joins the arguments into a single string, and returns its SHA-1/224/256/384/512 digest encoded as a Base64 string.

It's important to note that the resulting string does B<not> contain the padding characters typical of Base64 encodings. This omission is deliberate, and is done to maintain compatibility with the family of CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

I<OOP style>

=over 4

=item B<new($alg)>

Returns a new Digest::SHA object. Allowed values for I<$alg> are 1, 224, 256, 384, 512, 512224, or 512256. It's also possible to use common string representations of the algorithm (e.g. "sha256", "SHA-384"). If the argument is missing, SHA-1 will be used by default.

Invoking I<new> as an instance method will reset the object to the initial state associated with I<$alg>. If the argument is missing, the object will continue using the same algorithm that was selected at creation.

=item B<reset($alg)>

This method has exactly the same effect as I<new($alg)>. In fact, I<reset> is just an alias for I<new>.

=item B<hashsize>

Returns the number of digest bits for this object. The values are 160, 224, 256, 384, 512, 224, and 256 for SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224 and SHA-512/256, respectively.

=item B<algorithm>

Returns the digest algorithm for this object. The values are 1, 224, 256, 384, 512, 512224, and 512256 for SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224 and SHA-512/256, respectively.

=item B<clone>

Returns a duplicate copy of the object.
Logically joins the arguments into a single string, and uses it to update the current digest state. In other words, the following statements have the same effect:

```perl
$sha->add("a"); $sha->add("b"); $sha->add("c");
$sha->add("a")->add("b")->add("c");
$sha->add("a", "b", "c");
$sha->add("abc");
```

The return value is the updated object itself.

Updates the current digest state by appending bits to it. The return value is the updated object itself.

The first form causes the most-significant I<$nbits> of I<$data> to be appended to the stream. The I<$data> argument is in the customary binary format used for Perl strings.

The second form takes an ASCII string of "0" and "1" characters as its argument. It's equivalent to

```perl
$sha->add_bits(pack("B*", $bits), length($bits));
```

So, the following two statements do the same thing:

```perl
$sha->add_bits("111100001010");
$sha->add_bits("xF0xA0", 12);
```

Note that SHA-1 and SHA-2 use I<most-significant-bit ordering> for their internal state. This means that

```perl
$sha3->add_bits("110");
```

is equivalent to

```perl
$sha3->add_bits("1")->add_bits("1")->add_bits("0");
```

Reads from I<FILE> until EOF, and appends that data to the current state. The return value is the updated object itself.
=item B<addfile($filename [, $mode])>

Reads the contents of I<$filename>, and appends that data to the current
state. The return value is the updated object itself.

By default, I<$filename> is simply opened and read; no special modes
or I/O disciplines are used. To change this, set the optional I<$mode>
argument to one of the following values:

"b"read file in binary mode

"U"use universal newlines

"0"use BITS mode

"p"use portable mode (to be deprecated)

The "U" mode is modeled on Python's "Universal Newlines" concept, whereby
DOS and Mac OS line terminators are converted internally to UNIX newlines
before processing. This ensures consistent digest values when working
simultaneously across multiple file systems. B<The "U" mode influences
only text files>, namely those passing Perl's I<-T> test; binary files
are processed with no translation whatsoever.

The "p" mode differs from "U" only in that it treats "\r\n\r\n" as a single
newline, a quirky feature designed to accommodate legacy applications that
occasionally added an extra carriage return before DOS line terminators.
The "p" mode will be phased out eventually in favor of the cleaner and
more well-established Universal Newlines concept.

The BITS mode ("0") interprets the contents of I<$filename> as a logical
stream of bits, where each ASCII '0' or '1' character represents a 0 or
1 bit, respectively. All other characters are ignored. This provides
a convenient way to calculate the digest values of partial-byte data
by using files, rather than having to write separate programs employing
the I<add_bits> method.

=item B<getstate>

Returns a string containing a portable, human-readable representation
of the current SHA state.

=item B<putstate($str)>

Returns a Digest::SHA object representing the SHA state contained
in I<$str>. The format of I<$str> matches the format of the output
produced by method I<getstate>. If called as a class method, a new
object is created; if called as an instance method, the object is reset
to the state contained in $str.

=item B<dump($filename)>

Writes the output of getstate to $filename. If the argument is missing, or equal to the empty string, the state information will be written to STDOUT.

=item B<load($filename)>

Returns a Digest::SHA object that results from calling putstate on the contents of $filename. If the argument is missing, or equal to the empty string, the state information will be read from STDIN.

=item B<digest>

Returns the digest encoded as a binary string.

Note that the digest method is a read-once operation. Once it has been performed, the Digest::SHA object is automatically reset in preparation for calculating another digest value. Call $sha-clone-digest if it's necessary to preserve the original digest state.

=item B<hexdigest>

Returns the digest encoded as a hexadecimal string.

Like digest, this method is a read-once operation. Call $sha-clone-hexdigest if it's necessary to preserve the original digest state.

=item B<b64digest>

Returns the digest encoded as a Base64 string.

Like digest, this method is a read-once operation. Call $sha-clone-b64digest if it's necessary to preserve the original digest state.

It's important to note that the resulting string does not contain the padding characters typical of Base64 encodings. This omission is deliberate, and is done to maintain compatibility with the family of CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

=back

I<HMAC-SHA-1/224/256/384/512>
=over 4

=item B<hmac_sha1($data, $key)>

=item B<hmac_sha224($data, $key)>

=item B<hmac_sha256($data, $key)>

=item B<hmac_sha384($data, $key)>

=item B<hmac_sha512($data, $key)>

=item B<hmac_sha512224($data, $key)>

=item B<hmac_sha512256($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of $data/$key, with the result encoded as a binary string. Multiple $data arguments are allowed, provided that $key is the last argument in the list.

=item B<hmac_sha1_hex($data, $key)>

=item B<hmac_sha224_hex($data, $key)>

=item B<hmac_sha256_hex($data, $key)>

=item B<hmac_sha384_hex($data, $key)>

=item B<hmac_sha512_hex($data, $key)>

=item B<hmac_sha512224_hex($data, $key)>

=item B<hmac_sha512256_hex($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of $data/$key, with the result encoded as a hexadecimal string. Multiple $data arguments are allowed, provided that $key is the last argument in the list.

=item B<hmac_sha1_base64($data, $key)>

=item B<hmac_sha224_base64($data, $key)>

=item B<hmac_sha256_base64($data, $key)>

=item B<hmac_sha384_base64($data, $key)>

=item B<hmac_sha512_base64($data, $key)>

=item B<hmac_sha512224_base64($data, $key)>

=item B<hmac_sha512256_base64($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of $data/$key, with the result encoded as a base64 string. Multiple $data arguments are allowed, provided that $key is the last argument in the list.
B<hmac_sha512_base64($data, $key)>

B<hmac_sha512224_base64($data, $key)>

B<hmac_sha512256_base64($data, $key)>

Returns the HMAC-SHA-1/224/256/384/512 digest of I<$data>/<$key>,
with the result encoded as a Base64 string. Multiple I<$data>
arguments are allowed, provided that I<$key> is the last argument
in the list.

It's important to note that the resulting string does B<not> contain
the padding characters typical of Base64 encodings. This omission is
deliberate, and is done to maintain compatibility with the family of
CPAN Digest modules. See L</"PADDING OF BASE64 DIGESTS"> for details.

=back

=head1 SEE ALSO

L<Digest>, L<Digest::SHA::PurePerl>

The Secure Hash Standard (Draft FIPS PUB 180-4) can be found at:


The Keyed-Hash Message Authentication Code (HMAC):


=head1 AUTHOR

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- Lucretius

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L<perlartistic>

=cut

Found in path(s):
* /opt/cola/permits/1144946930_1633499446.54/0/libdigest-sha-perl-5-95-orig-1.tar-gz/Digest-SHA-5.95/lib/Digest/SHA.pm
No license file was found, but licenses were detected in source scan.

Digest::SHA version 5.95
=================================

Digest::SHA is a complete implementation of the NIST Secure Hash Standard. It gives Perl programmers a convenient way to calculate SHA-1, SHA-224, SHA-256, SHA-384, SHA-512, SHA-512/224, and SHA-512/256 message digests. The module can handle all types of input, including partial-byte data.

Digest::SHA is written in C for speed. If your platform lacks a C compiler, you can install the functionally-equivalent (but much slower) Digest::SHA::PurePerl module.

The tests subdirectory (t/*.t) contains an extensive set of SHA vectors compiled from various sources.
INSTALLATION

To install this module type the following:

perl Makefile.PL [ options ]
make
make test
make install

The Makefile.PL options are:

- t : build a thread-safe version of module
- x : exclude support for SHA-384/512

NOTE: Option -t is still allowed but no longer necessary.

DEPENDENCIES

None

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Found in path(s):
* /opt/cola/permits/1144946930_1633499446.54/0/libdigest-sha-perl-5.95-orig-1-tar-gz/Digest-SHA-5.95/README
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#!/perl

## shasum: filter for computing SHA digests (ref. sha1sum/md5sum)
##
## Copyright (C) 2003-2015 Mark Shelor, All Rights Reserved
##
## Version: 5.95
## Sat Jan 10 12:15:36 MST 2015

## shasum SYNOPSIS adapted from GNU Coreutils sha1sum. Add
## "-a" option for algorithm selection,
use strict;
use warnings;
use Fcntl;
use Getopt::Long;

my $POD = <<'END_OF_POD';

=head1 NAME
shasum - Print or Check SHA Checksums

=head1 SYNOPSIS
Usage: shasum [OPTION]... [FILE]...
Print or check SHA checksums.
With no FILE, or when FILE is -, read standard input.

-a, --algorithm  1 (default), 224, 256, 384, 512, 512224, 512256
-b, --binary      read in binary mode
-c, --check       read SHA sums from the FILEs and check them
-t, --text        read in text mode (default)
-U, --UNIVERSAL   read in Universal Newlines mode
 produces same digest on Windows/Unix/Mac
-0, --01          read in BITS mode
              ASCII '0' interpreted as 0-bit,
              ASCII '1' interpreted as 1-bit,
              all other characters ignored
-p, --portable    read in portable mode (to be deprecated)

The following two options are useful only when verifying checksums:
-s, --status      don't output anything, status code shows success
-w, --warn        warn about improperly formatted checksum lines

-h, --help        display this help and exit
-v, --version     output version information and exit

When verifying SHA-512/224 or SHA-512/256 checksums, indicate the
algorithm explicitly using the -a option, e.g.

    shasum -a 512224 -c checksumfile

The sums are computed as described in FIPS PUB 180-4. When checking,
the input should be a former output of this program. The default
mode is to print a line with checksum, a character indicating type
(‘*’ for binary, ’ ’ for text, ’U’ for UNIVERSAL, ’^’ for BITS, ’?’ for portable), and name for each FILE.

Report shasum bugs to mshelor@cpan.org

=head1 DESCRIPTION

Running I<shasum> is often the quickest way to compute SHA message digests. The user simply feeds data to the script through files or standard input, and then collects the results from standard output.

The following command shows how to compute digests for typical inputs such as the NIST test vector "abc":

perl -e "print qq(abc)" | shasum

Or, if you want to use SHA-256 instead of the default SHA-1, simply say:

perl -e "print qq(abc)" | shasum -a 256

Since I<shasum> mimics the behavior of the combined GNU I<sha1sum>, I<sha224sum>, I<sha256sum>, I<sha384sum>, and I<sha512sum> programs, you can install this script as a convenient drop-in replacement.

Unlike the GNU programs, I<shasum> encompasses the full SHA standard by allowing partial-byte inputs. This is accomplished through the BITS option (I<-0>). The following example computes the SHA-224 digest of the 7-bit message I<0001100>:

perl -e "print qq(0001100)" | shasum -0 -a 224

=head1 AUTHOR

Copyright (c) 2003-2015 Mark Shelor <mshelor@cpan.org>.

=head1 SEE ALSO

I<shasum> is implemented using the Perl module L<Digest::SHA> or L<Digest::SHA::PurePerl>.

=cut

END_OF_POD

my $VERSION = "5.95";

sub usage {
    my($err, $msg) = @_;
$msg = "" unless defined $msg;
if ($err) {
  warn($msg . "Type shasum -h for help\n");
  exit($err);
}
my($USAGE) = $POD =~ /SYNOPSIS(.+?)^=/sm;
$USAGE =~ s/^\s*//;
$USAGE =~ s/\s*$//;
$USAGE =~ s/^ //gm;
print $USAGE, "\n";
exit($err);
}

## Sync stdout and stderr by forcing a flush after every write

select((select(STDOUT), $| = 1)[0]);
select((select(STDERR), $| = 1)[0]);

## Collect options from command line

my ($alg, $binary, $check, $text, $status, $warn, $help, $version);
my ($portable, $BITS, $reverse, $UNIVERSAL, $versions);
eval { Getopt::Long::Configure ("bundling") };
GetOptions(
  'b|binary' => \$binary, 'c|check' => \$check,
  't|text' => \$text, 'a|algorithm=i' => \$alg,
  's|status' => \$status, 'w|warn' => \$warn,
  'h|help' => \$help, 'v|version' => \$version,
  'p|portable' => \$portable,
  '0|01' => \$BITS,
  'R|REVERSE' => \$reverse,
  'U|UNIVERSAL' => \$UNIVERSAL,
  'V|VERSIONS' => \$versions,
) or usage(1, "");

## Deal with help requests and incorrect uses

usage(0)
if $help;
  usage(1, "shasum: Ambiguous file mode\n")
if scalar(grep {defined $_} ($binary, $portable, $text, $BITS, $UNIVERSAL)) > 1;
  usage(1, "shasum: --warn option used only when verifying checksums\n")
if $warn && !$check;
usage(1, "shasum: --status option used only when verifying checksums\n")
if $status && !$check;

## Try to use Digest::SHA. If not installed, use the slower
## but functionally equivalent Digest::SHA::PurePerl instead.

## If option -R is invoked, reverse the module preference,
## i.e. try Digest::SHA::PurePerl first, then Digest::SHA.

my @MODS = qw(Digest::SHA Digest::SHA::PurePerl);
@MODS[0, 1] = @MODS[1, 0] if $reverse;

my $module;
for (@MODS) {
    my $mod = $_;
    if (eval "require $mod") {
        $module = $mod;
        last;
    }
}
die "shasum: Unable to find " . join(" or ", @MODS) . "\n"
unless defined $module;

## Default to SHA-1 unless overridden by command line option

$alg = 1 unless defined $alg;
grep { $$_ == $alg } (1, 224, 256, 384, 512, 512224, 512256)
or usage(1, "shasum: Unrecognized algorithm\n");

## Display version information if requested

if ($version) {
    print "$VERSION\n";
    exit(0);
}

if ($versions) {
    print "shasum $VERSION\n";
    print "$module ", eval "\$\{module\}::VERSION", "\n";
    print "perl ", defined $^V ? sprintf("%vd", $^V) : $], "\n";
    exit(0);
}
## Try to figure out if the OS is DOS-like. If it is, default to binary mode when reading files, unless explicitly overridden by command line "--text" or "--UNIVERSAL" or "--portable" options.

my $isDOSish = ($^O =~ /^(MSWin\d\d|os2|dos|mint|cygwin)$/);
if ($isDOSish) { $binary = 1 unless $text || $UNIVERSAL || $portable }


## Read from STDIN (-) if no files listed on command line

ARGV = ('-') unless @ARGV;

## sumfile($file): computes SHA digest of $file

sub sumfile {
    my $file = shift;
    my $mode = $binary ? 'b' : ($UNIVERSAL ? 'U' : ($BITS ? '0' : ($portable ? 'p' : '')));
    my $digest = eval { $module->new($alg)->addfile($file, $mode) };
    if ($@) { warn "shasum: $file: $!
    $digest->hexdigest;
}

## %len2alg: maps hex digest length to SHA algorithm

my %len2alg = (40 => 1, 56 => 224, 64 => 256, 96 => 384, 128 => 512);
$len2alg{56} = 512224 if $alg == 512224;
$len2alg{64} = 512256 if $alg == 512256;

## unescape: convert backslashed filename to plain filename

sub unescape {
    $_ = shift;
    s/\\/\0/g;
    s/\n/\n/g;
    return if /\/;
    s/\0/\/g;
    return $_;
}
## verify: confirm the digest values in a checksum file

```perl
sub verify {
    my $checkfile = shift;
    my ($err, $fmt_errs, $read_errs, $match_errs) = (0, 0, 0, 0);
    my ($num_lines, $num_files) = (0, 0);
    my ($bslash, $sum, $fname, $rsp, $digest);

    local *FH;
    $checkfile eq '-' and open(FH, '< -')
    and $checkfile = 'standard input'
    or sysopen(FH, $checkfile, O_RDONLY)
    or die "shasum: $checkfile: $!
    "
    while (<FH>) {
        next if /^#/; s/
        $//; s/
        [ \t]//; $num_lines++;
        $bslash = s/^\//;
        ($sum, $modesym, $fname) =
        /^([a-fA-F]+)( [\t]+)([^\^])*/;
        $alg = defined $sum ? $len2alg{length($sum)} : undef;
        $fname = unescape($fname) if defined $fname && $bslash;
        if (grep { ! defined $_ } ($alg, $sum, $modesym, $fname)) {
            $alg = 1 unless defined $alg;
            warn("shasum: $checkfile: $.: improperly " .
            "formatted SHA$alg checksum line\n"") if $warn;
            $fmt_errs++;
            next;
        }
        $fname =~ s/$// unless -e $fname;
        $rsp = "$fname: " ; $num_files++;
        ($binary, $text, $UNIVERSAL, $BITS, $portable) =
        map { $_ eq $modesym } ('*', ' ', 'U', '^', 'p');
        unless ($digest = sumfile($fname)) {
            $rsp .= "FAILED open or read\n";
            $err = 1; $read_errs++;
        } else {
            if (lc($sum) eq $digest) { $rsp .= "OK\n" }
            else { $rsp .= "FAILED\n" ; $err = 1; $match_errs++ }
        }
        print $rsp unless $status;
    }
    close(FH);
    unless ($num_files) {
        $alg = 1 unless defined $alg;
        warn("shasum: $checkfile: no properly formatted " .
        "SHA$alg checksum lines found\n"");
        $err = 1;
    }
    return ($err, $fmt_errs, $read_errs, $match_errs);
}
```

elsif (! $status) {
    warn("shasum: WARNING: $fmt_errs line" . ($fmt_errs>1?'s are':' is') . " improperly formatted\n") if $fmt_errs;
    warn("shasum: WARNING: $read_errs listed file" . ($read_errs>1?'s':'') . " could not be read\n") if $read_errs;
    warn("shasum: WARNING: $match_errs computed checksum" . ($match_errs>1?'s':'') . " did NOT match\n") if $match_errs;
} return($err == 0);

## Verify or compute SHA checksums of requested files

my($file, $digest);

my $STATUS = 0;
for $file (@ARGV) {
    if ($check) { $STATUS = 1 unless verify($file) }
    elsif ($digest = sumfile($file)) {
        if ($file =~ /
\\/g) {
            $file =~ s/\\/\\/g; $file =~ s/\n/\\n/g;
            $digest = "\\$digest";
        }
        print "$digest $modesym", "$file\n";
    } else { $STATUS = 1 }
}
exit($STATUS)

Found in path(s):
* /opt/cola/permits/1144946930_1633499446.54/0/libdigest-sha-perl-5-95-orig-1-tar-gz/Digest-SHA-5.95/shasum

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/ * sha.h: header file for SHA-1/224/256/384/512 routines 
*/
* Ref: NIST FIPS PUB 180-4 Secure Hash Standard
* Copyright (C) 2003-2015 Mark Shelor, All Rights Reserved
* Version: 5.95
* Sat Jan 10 12:15:36 MST 2015
*/

Found in path(s):
1.992 jersey-bundle 1.9-ea07

1.992.1 Available under license:

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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1.996 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 not matched any of the other records.

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.
The parse() method takes as arguments the URL that was used to retrieve the F<robots.txt> file, and the contents of the file.

Returns TRUE if this robot is allowed to retrieve this URL.

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

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 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 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.

=back

Unrecognized records are ignored.

=head1 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.

=head1 SEE ALSO

L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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1.997 commons-csv 1.8

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  * org.eclipse.jetty.orbit:javax.mail.glassfish
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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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

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- https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
- org.eclipse.jetty.toolchain:jetty-schemas

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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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*
*/

#ifndef _BSD_WAITPID_H

#endif

#define _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

  /* Prototype */
  pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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1.1002.1 Available under license:

1.1003 aop-alliance 1.0
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1.1004 slf4j-log4j 1.7.25

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1.1005 hk2-locator 2.5.0-b30

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*/
/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2.5.0-b32-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/StaticInitMerger.java
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/MethodOptimizer.java
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/AnnotationVisitor.java
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1
jar/org/glassfish/hk2/external/org/objectweb/asm/Type.java
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceModuleVisitor.java
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/tree/VarInsnNode.java
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1.jar/org/glassfish/hk2/external/org/objectweb/asm/Handler.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)
 * version.
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see @link Opcodes).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see @link Type).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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/***
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
* Constructs a new [Textifier]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [Textifier(int)]
* version.
*/
* @throws IllegalStateException
*             If a subclass calls this constructor.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-
  jar/org/glassfish/hk2/external/org/objectweb/asm/util/Textifier.java
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* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-
  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXCodeAdapter.java
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  jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXFieldAdapter.java
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 */
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068323143_1599984365.18/0/asm-all-repackaged-2-5-0-b32-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i>. Instead, they must use the
 * [constructor](#JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]))
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see [link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [link Type]).
 *
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * [link Type#getInternalName() getInternalName()]). May be
 * <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

---

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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
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c

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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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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelId.java

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Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its [link ChannelPipeline].

Sub-types
[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
[ul]
<li>[link ChannelInboundHandler] to handle inbound I/O events, and</li>
<li>[link ChannelOutboundHandler] to handle outbound I/O operations.</li>
[ul]

Alternatively, the following adapter classes are provided for your convenience:
[ul]
<li>[link ChannelInboundHandlerAdapter] to handle inbound I/O events.</li>
<li>[link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
<li>[link ChannelDuplexHandler] to handle both inbound and outbound events</li>
[ul]

For more information, please refer to the documentation of each subtype.

The context object
A [link ChannelHandler] is provided with a [link ChannelHandlerContext] object. A [link ChannelHandler] is supposed to interact with the [link ChannelPipeline] it belongs to via a context object. Using the context object, the [link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [link AttributeKey])s which is specific to the handler.

State management
A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See `ChannelInitializer.initChannel(Channel)`
    public class DataServerInitializer extends ChannelInitializer<Channel> {
        @Override
        public void initChannel(Channel channel) {
            channel.pipeline().addLast("handler", new DataServerHandler());
        }
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `ChannelInitializer.initChannel(Channel)`
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
*     private final [@link AttributeKey]&lt;[@link Boolean]&gt; auth =
*         [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")];
* 
*     [@code @Override]
*     public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;@link Channel]&gt; {
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* 
*     [@code @Override]
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* </pre>
* <h4>The [@code @Sharable] annotation</h4>
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
If a [ChannelHandler] is annotated with the [Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [ChannelPipeline]s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Please refer to the ChannelHandler, and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Additional resources worth reading:

Please refer to the ChannelHandler, and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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jar/io/netty/channel/ChannelFuture.java

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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## Source Code

The project maintains the following source code repositories:

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

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
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1.1029 expat 2.1.0 7ubuntu0.16.04.3

1.1029.1 Available under license:

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1.1030 libtest-simple-perl 1.001014-3

1.1030.1 Available under license:

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Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange
format lets L<Test::Harness> know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0        all tests successful
255      test died or all passed but wrong # of tests run
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;
use Film;  # What you're testing.
my $btaste = Film->new({ Title => 'Bad Taste', Director => 'Peter Jackson', Rating => 'R', NumExplodingSheep => 1 });
ok( defined($btaste) && ref $btaste eq 'Film', 'new() works' );
ok( $btaste->Title      eq 'Bad Taste',     'Title() get'   );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
  # Failed test 'Rating() get'
  # in t/film.t at line 14.
ok 5 - NumExplodingSheep() get
  # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

  0  SS$_NORMAL       all tests successful
  4  SS$_ABORT        something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.6.0.

Test::Simple is thread-safe in perl 5.8.1 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO
More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

Look in Test::More's SEE ALSO for more testing modules.

AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern, wardrobe by Calvin Klein.

MAINTAINERS

Chad Granum <exodist@cpan.org>,

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EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0                   all tests successful
255                 test died or all passed but wrong # of tests run
any other number   how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.1 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using C<current_test()> they will all be effected.

While versions earlier than 5.8.1 had threads they contain too many bugs to support.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 MEMORY

An informative hash, accessible via C<details()>, is stored for each test you perform. So memory usage will scale linearly with each test run. Although this is not a problem for most test suites, it can become an issue if you do large (hundred thousands to million) combinatorics tests in the same run.

In such cases, you are advised to either split the test file into smaller ones, or use a reverse approach, doing "normal" (code) compares and triggering C<fail()> should anything go unexpected.

Future versions of Test::Builder will have a way to turn history off.

=head1 EXAMPLES

CPAN can provide the best examples. L<Test::Simple>, L<Test::More>, L<Test::Exception> and L<Test::Differences> all use Test::Builder.

=head1 SEE ALSO

L<Test::Simple>, L<Test::More>, L<Test::Harness>
AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

MAINTAINERS

over 4

item Chad Granum E<lt>exodist@cpan.orgE<gt>

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NAME

Test::Builder::IO::Scalar - A copy of IO::Scalar for Test::Builder

DESCRIPTION

This is a copy of L<IO::Scalar> which ships with L<Test::Builder> to
support scalar references as filehandles on Perl 5.6. Newer
versions of Perl simply use C<open()>’s built in support.

L<Test::Builder> can not have dependencies on other modules without
careful consideration, so its simply been copied into the distribution.

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This file came from the "IO-stringy" Perl5 toolkit.
Sometimes the Test::More interface isn’t quite enough. Fortunately, Test::More is built on top of L<Test::Builder> which provides a single, unified backend for any test library to use. This means two test libraries which both use <Test::Builder> B<can> be used together in the same program.

If you simply want to do a little tweaking of how the tests behave, you can access the underlying L<Test::Builder> object like so:

```
my $test_builder = Test::More->builder;
```

Returns the L<Test::Builder> object underlying Test::More for you to play with.
having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

<table>
<thead>
<tr>
<th>Exit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>all tests successful</td>
</tr>
<tr>
<td>255</td>
<td>test died or all passed but wrong # of tests run</td>
</tr>
<tr>
<td>any other number</td>
<td>how many failed (including missing or extras)</td>
</tr>
</tbody>
</table>

If you fail more than 254 tests, it will be reported as 254.

**NOTE** This behavior may go away in future versions.

=head1 COMPATIBILITY

Test::More works with Perls as old as 5.8.1.

Thread support is not very reliable before 5.10.1, but that's because threads are not very reliable before 5.10.1.

Although Test::More has been a core module in versions of Perl since 5.6.2, Test::More has evolved since then, and not all of the features you're used to will be present in the shipped version of Test::More. If you are writing a module, don't forget to indicate in your package metadata the minimum version of Test::More that you require. For instance, if you want to use `done_testing()` but want your test script to run on Perl 5.10.0, you will need to explicitly require Test::More > 0.88.

Key feature milestones include:

=over 4

=item subtests

Subtests were released in Test::More 0.94, which came with Perl 5.12.0. Subtests did not implicitly call `done_testing()` until 0.96; the first Perl with that fix was Perl 5.14.0 with 0.98.

=item `done_testing()`

This was released in Test::More 0.88 and first shipped with Perl in 5.10.1 as part of Test::More 0.92.

=item `cmp_ok()`

Although `cmp_ok()` was introduced in 0.40, 0.86 fixed an important bug to make it safe for overloaded objects; the fixed first shipped with Perl in 5.10.1 as part of Test::More 0.92.

=item `new_ok()` `note()` and `explain()`

These were released in Test::More 0.82, and first shipped with Perl in 5.10.1 as part of Test::More 0.92.
There is a full version history in the Changes file, and the Test::More versions included as core can be found using L<Module::CoreList>:

    $ corelist -a Test::More

=head1 CAVEATS and NOTES

=over 4

=item utf8 / "Wide character in print"

If you use utf8 or other non-ASCII characters with Test::More you might get a "Wide character in print" warning. Using C<< binmode STDOUT, "utf8" >> will not fix it. L<Test::Builder> (which powers Test::More) duplicates STDOUT and STDERR. So any changes to them, including changing their output disciplines, will not be seem by Test::More.

One work around is to apply encodings to STDOUT and STDERR as early as possible and before Test::More (or any other Test module) loads.

    use open ':std', ':encoding(utf8)';
    use Test::More;

A more direct work around is to change the filehandles used by L<Test::Builder>.

    my $builder = Test::More->builder;
    binmode $builder->output, "encoding(utf8)";
    binmode $builder->failure_output, "encoding(utf8)";
    binmode $builder->todo_output, "encoding(utf8)";

=item Overloaded objects

String overloaded objects are compared B<as strings> (or in C<cmp_ok()>’s case, strings or numbers as appropriate to the comparison op). This prevents Test::More from piercing an object’s interface allowing better blackbox testing. So if a function starts returning overloaded objects instead of bare strings your tests won’t notice the difference. This is good.

However, it does mean that functions like C<is_deeply()> cannot be used to
test the internals of string overloaded objects. In this case I would suggest L<Test::Deep> which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if C<use threads> has been done I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

5.8.1 and above are supported. Anything below that has too many bugs.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's L<Test> module. I was largely unaware of its existence when I'd first written my own C<ok()> routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

=head2

=head2 ALTERNATIVES

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).
L<Test::Legacy> tests written with Test.pm, the original testing module, do not play well with other testing libraries. Test::Legacy emulates the Test.pm interface and does play well with others.

=head2 TESTING FRAMEWORKS

L<Fennec> The Fennec framework is a testers toolbox. It uses L<Test::Builder> under the hood. It brings enhancements for forking, defining state, and mocking. Fennec enhances several modules to work better together than they would if you loaded them individually on your own.

L<Fennec::Declare> Provides enhanced (L<Devel::Declare>) syntax for Fennec.

=head2 ADDITIONAL LIBRARIES

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like xUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Inline> shows the idea of embedded testing.

L<Mock::Quick> The ultimate mocking library. Easily spawn objects defined on the fly. Can also override, block, or reimplement packages as needed.

L<Test::FixtureBuilder> Quickly define fixture data for unit tests.

=head2 OTHER COMPONENTS

L<Test::Harness> is the test runner and output interpreter for Perl. It's the thing that powers C<make test> and where the C<prove> utility comes from.

=head2 BUNDLES

L<Bundle::Test> installs a whole bunch of useful test modules.

L<Test::Most> Most commonly needed test functions and features.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.
MAINTAINERS

Chad Granum <exodist@cpan.org>

BUGS

See http://rt.cpan.org to report and view bugs.

SOURCE

The source code repository for Test::More can be found at

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---

abstract: 'Basic utilities for writing tests.'
author:
  - 'Michael G Schwern <schwern@pobox.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.142060'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Test-Simple
no_index:
directory:
  - t
  - inc
requires:
  Scalar::Util: '1.13'
  Test::Harness: '2.03'
  perl: '5.006'
resources:
  MailingList: http://lists.perl.org/list/perl-qa.html
  bugtracker: http://github.com/Test-More/test-more/issues/
  homepage: http://github.com/Test-More/test-more/
  license: http://dev.perl.org/licenses/
  repository: http://github.com/Test-More/test-more/
version: '1.001014'

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1013125789_1594196996.48/0/libtest-simple-perl-1-001014-orig-tar-gz/Test-
    Simple-1.001014/META.yml

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=back

=head1 BUGS

Calls C<< Test::Builder->no_ending >> turning off the ending tests.
This is needed as otherwise it will trip out because we've run more
tests than we strictly should have and it'll register any failures we
had that we were testing for as real failures.

The color function doesn't work unless L<Term::ANSIColor> is
compatible with your terminal.

Bugs (and requests for new features) can be reported to the author
though the CPAN RT system:
AUTHOR

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=over 4

=item Chad Granum <exodist@cpan.org>

=back

NOTES

Thanks to Richard Clamp <richardc@unixbeard.net> for letting me use his testing system to try this module out on.

SEE ALSO

L<Test::Builder>, L<Test::Builder::Tester::Color>, L<Test::More>.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013125789_1594196996.48/0/lib/test-simple-perl-1-001014-orig-tar-gz/Test-Simple-1.001014/lib/Test/Builder/Tester.pm
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BUGS

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1.1031 Linux-Base 4.5ubuntu1.2~16.04.1

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/Collections.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/util/concurrent/AsyncSettableFuture.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/reflect/ImmovableTypeToInstanceMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/xml/package-info.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey-repackaged/com/google/common/collection/TransformedListIterator.java

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
  jar/jersey/repackaged/com/google/common/collection/ComputingConcurrentHashMap.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/cache/Striped64.java
* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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* 
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
* /

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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-
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  jar/jersey/repackaged/com/google/common/collection/ForwardingSortedMultiset.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4-jar/jersey/repackaged/com/google/common/hash/Funnels.java
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* /opt/cola/permits/1136415821_1613765783.23/0/jersey-guava-2-25-sources-4.jar/jersey/repackaged/com/google/common/collect/SparseImmutableTable.java
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---

# canonicalize-lgpl.m4 serial 4
dnl Copyright (C) 2003, 2006-2007 Free Software Foundation, Inc.
dnl This file is free software; the Free Software Foundation
gives unlimited permission to copy and/or distribute it,
without modifications, as long as this notice is preserved.
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)
AC_CHECK_FUNCS_ONCE(getcwd readlink)
])

1.1040 geoip-database 20160408-1
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1.1043 python-defaults 3.5.1-3
1.1043.1 Available under license:

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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.cni.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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1.1046 junit 4.13.1

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression

core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* ----------------------------------------------------------------------
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal leonardr@netcom.com)

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

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* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127 (?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduction code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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  * Miller. The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTORS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.1050 patch 2.7.5 1ubuntu0.16.04.2
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

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1.1058 linux-meta 4.4.0.210.216
1.1058.1 Available under license:

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This package was then maintained by Sven Rudolph.

This package was maintained by Herbert Xu <herbert@gondor.apana.org.au> from March 1997 to May 2004.

This package was maintained by the Debian Kernel Team <debian-kernel@lists.debian.org>

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1.1059 libjpeg8-empty 8c-2ubuntu8

1.1059.1 Available under license:

Name: libjpeg8-empty

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1.1060 javassist 3.19.0-GA
1.1060.1 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/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtMember.java
jar/javassist/bytecode/ByteArray.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CannotCompileException.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/NoSuchClassError.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/CompileError.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/MethodCall.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/MemberResolver.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LineNumberAttribute.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPoolTail.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtBehavior.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/InstanceOf.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ClassFilePrinter.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformWriteField.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ClassFilePrinter.java
  * /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPool.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/expr/NewArray.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassMap.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/InstanceOfExpr.java

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

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1.1069 aspect-j 1.8.0

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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
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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1.1077 re2j 1.2
1.1077.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Matcher.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Pattern.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Simplify.java
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Found in path(s):
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Parser.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Regexp.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Utils.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Machine.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Inst.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Prog.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/CharClass.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/RE2.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Compiler.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/PatternSyntaxException.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/MachineInput.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Unicode.java

1.1078 reflections 0.9.9

1.1079 rdma-cm 1.0.21-1

1.1079.1 Available under license:
Initial Debianization:
This package was debianized by Roland Dreier <rolannd@cisco.com> on
Mon, 21 Jan 2008 13:18:49 -0800

Source:
It was downloaded from the OpenFabrics web site at
Author:
Sean Hefty<sean.hefty@intel.com>

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1.1080 libgpg-error 1.21 2ubuntu1

1.1080.1 Available under license:

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1.1082 util-linux 2.27.1 6ubuntu3.6

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Initialize empty image
f1c9645d6bc14efdc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device      Boot Start   End Sectors Size Id Type
<removed>1 2048 4095  2048 1M 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
Create default BSD
2e1cee529eb59c9341afe0443f196a1 bsd.img

---layout---------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c 4096 20479  16384    8M unused       0     0   0
d 16064 16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout---------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

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1.1083 librole-tiny-perl 2.000000-2
1.1083.1 Available under license :
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NAME
Role::Tiny - Roles. Like a nouvelle cuisine portion size slice of Moose.
SYNOPSIS
package Some::Role;

use Role::Tiny;

sub foo { ... }

sub bar { ... }

around baz => sub { ... }

1;

else where

package Some::Class;

use Role::Tiny::With;

# bar gets imported, but not foo
with 'Some::Role';

sub foo { ... }

# baz is wrapped in the around modifier by Class::Method::Modifiers
sub baz { ... }

1;

If you wanted attributes as well, look at Moo::Role.

DESCRIPTION
"Role::Tiny" is a minimalist role composition tool.

ROLE COMPOSITION
Role composition can be thought of as much more clever and meaningful multiple inheritance. The basics of this implementation of roles is:

* If a method is already defined on a class, that method will not be composed in from the role.

* If a method that the role "requires" to be implemented is not implemented, role application will fail loudly.

Unlike Class::C3, where the last class inherited from "wins," role composition is the other way around, where the class wins. If multiple roles are applied in a single call (single with statement), then if any of their provided methods clash, an exception is raised unless the class
provides a method since this conflict indicates a potential problem.

IMPORTED SUBROUTINES
requires
  requires qw(foo bar);

Declares a list of methods that must be defined to compose role.

with
  with 'Some::Role1'
  with 'Some::Role1', 'Some::Role2'

Composes another role into the current role (or class via Role::Tiny::With).

If you have conflicts and want to resolve them in favour of Some::Role1 you can instead write:

  with 'Some::Role1'
  with 'Some::Role2'

If you have conflicts and want to resolve different conflicts in favour of different roles, please refactor your codebase.

before
  before foo => sub { ... };

See "before method(s) => sub { ... ]" in Class::Method::Modifiers for full documentation.

Note that since you are not required to use method modifiers, Class::Method::Modifiers is lazily loaded and we do not declare it as a dependency. If your Role::Tiny role uses modifiers you must depend on both Class::Method::Modifiers and Role::Tiny.

around
  around foo => sub { ... };

See "around method(s) => sub { ... ]" in Class::Method::Modifiers for full documentation.

Note that since you are not required to use method modifiers, Class::Method::Modifiers is lazily loaded and we do not declare it as a dependency. If your Role::Tiny role uses modifiers you must depend on both Class::Method::Modifiers and Role::Tiny.

after
after foo => sub { ... ];

See "after method(s) => sub { ... }" in Class::Method::Modifiers for full documentation.

Note that since you are not required to use method modifiers, Class::Method::Modifiers is lazily loaded and we do not declare it as a dependency. If your Role::Tiny role uses modifiers you must depend on both Class::Method::Modifiers and Role::Tiny.

Strict and Warnings
In addition to importing subroutines, using "Role::Tiny" applies strict and warnings to the caller.

SUBROUTINES
does_role
   if (Role::Tiny::does_role($foo, 'Some::Role')) {
       ...
   }

Returns true if class has been composed with role.

This subroutine is also installed as ->does on any class a Role::Tiny is composed into unless that class already has an ->does method, so

   if ($foo->does('Some::Role')) {
       ...
   }

will work for classes but to test a role, one must use ::does_role directly.

Additionally, Role::Tiny will override the standard Perl "DOES" method for your class. However, if "any" class in your class' inheritance hierarchy provides "DOES", then Role::Tiny will not override it.

METHODS
apply_roles_to_package
   Role::Tiny->apply_roles_to_package(
       'Some::Package', 'Some::Role', 'Some::Other::Role'
   );

Composes role with package. See also Role::Tiny::With.

apply_roles_to_object
   Role::Tiny->apply_roles_to_object($foo, qw(Some::Role1 Some::Role2));

Composes roles in order into object directly. Object is reblessed into
the resulting class.

```
create_class_with_roles
Role::Tiny->create_class_with_roles('Some::Base', qw(Some::Role1 Some::Role2));
```

Creates a new class based on base, with the roles composed into it in order. New class is returned.

```
is_role
Role::Tiny->is_role('Some::Role1')
```

Returns true if the given package is a role.

**CAVEATS**

* On perl 5.8.8 and earlier, applying a role to an object won't apply any overloads from the role to all copies of the object.

**SEE ALSO**

Role::Tiny is the attribute-less subset of Moo::Role; Moo::Role is a meta-protocol-less subset of the king of role systems, Moose::Role.

Ovid's Role::Basic provides roles with a similar scope, but without method modifiers, and having some extra usage restrictions.

**AUTHOR**

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  * /opt/cola/permits/1144945639_1633499393.08/0/librole-tiny-perl-2-000001-orig-1-tar-gz/Role-Tiny-
    2.000001/README
  No license file was found, but licenses were detected in source scan.

---

abstract: 'Roles. Like a nouvelle cuisine portion size slice of Moose.'
author:
  - 'mst - Matt S. Trout (cpan:MSTROUT) <mst@shadowcat.co.uk>'
build_requires:
  Test::Fatal: '0.003'
  Test::More: '0.96'
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: Role-Tiny
no_index:
directory:
  - t
  - xt
recommends:
  Class::Method::Modifiers: '1.05'
requires:
  Exporter: '5.57'
  perl: '5.006'
resources:
  IRC: irc://irc.perl.org/#moose
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Role-Tiny
  license: http://dev.perl.org/licenses/
  repository: git://github.com/moose/Role-Tiny.git
version: '2.000001'

Found in path(s):
* /opt/cola/permits/1144945639_1633499393.08/0/librole-tiny-perl-2-000001-orig-1-tar-gz/Role-Tiny-
  2.000001/META.yml
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=encoding utf-8

=head1 NAME

Role::Tiny - Roles. Like a nouvelle cuisine portion size slice of Moose.

=head1 SYNOPSIS

package Some::Role;

use Role::Tiny;

sub foo { ... }

sub bar { ... }

around baz => sub { ... }

1;

else where

package Some::Class;

use Role::Tiny::With;

# bar gets imported, but not foo
with 'Some::Role';

sub foo { ... }

# baz is wrapped in the around modifier by Class::Method::Modifiers
sub baz { ... }

1;

If you wanted attributes as well, look at L<Moo::Role>.

=head1 DESCRIPTION

C<Role::Tiny> is a minimalist role composition tool.
ROLE COMPOSITION

Role composition can be thought of as much more clever and meaningful multiple inheritance. The basics of this implementation of roles is:

If a method is already defined on a class, that method will not be composed in from the role.

If a method that the role requires to be implemented is not implemented, role application will fail loudly.

Unlike Class::C3, where the last class inherited from "wins," role composition is the other way around, where the class wins. If multiple roles are applied in a single call (single with statement), then if any of their provided methods clash, an exception is raised unless the class provides a method since this conflict indicates a potential problem.

IMPORTED SUBROUTINES

requires qw(foo bar);

Declares a list of methods that must be defined to compose role.

with 'Some::Role1';

with 'Some::Role1', 'Some::Role2';

Composes another role into the current role (or class via Role::Tiny::With).

If you have conflicts and want to resolve them in favour of Some::Role1 you can instead write:

with 'Some::Role1';
with 'Some::Role2';
If you have conflicts and want to resolve different conflicts in favour of different roles, please refactor your codebase.

=head2 before

before foo => sub { ... };

See L<< Class::Method::Modifiers/before method(s) => sub { ... } >> for full documentation.

Note that since you are not required to use method modifiers, L<Class::Method::Modifiers> is lazily loaded and we do not declare it as a dependency. If your L<Role::Tiny> role uses modifiers you must depend on both L<Class::Method::Modifiers> and L<Role::Tiny>.

=head2 around

around foo => sub { ... };

See L<< Class::Method::Modifiers/around method(s) => sub { ... } >> for full documentation.

Note that since you are not required to use method modifiers, L<Class::Method::Modifiers> is lazily loaded and we do not declare it as a dependency. If your L<Role::Tiny> role uses modifiers you must depend on both L<Class::Method::Modifiers> and L<Role::Tiny>.

=head2 after

after foo => sub { ... };

See L<< Class::Method::Modifiers/after method(s) => sub { ... } >> for full documentation.

Note that since you are not required to use method modifiers, L<Class::Method::Modifiers> is lazily loaded and we do not declare it as a dependency. If your L<Role::Tiny> role uses modifiers you must depend on both L<Class::Method::Modifiers> and L<Role::Tiny>.

=head2 Strict and Warnings

In addition to importing subroutines, using C<Role::Tiny> applies L<strict> and L<warnings> to the caller.

=head1 SUBROUTINES

=head2 does_role
if (Role::Tiny::does_role($foo, 'Some::Role')) {
    ...
}

Returns true if class has been composed with role.

This subroutine is also installed as -&gt;does on any class a Role::Tiny is composed into unless that class already has an -&gt;does method, so

if ($foo-&gt;does('Some::Role')) {
    ...
}

will work for classes but to test a role, one must use :&gt;does_role directly.

Additionally, Role::Tiny will override the standard Perl C&lt;DOES&gt; method for your class. However, if C&lt;any&gt; class in your class' inheritance hierarchy provides C&lt;DOES&gt;, then Role::Tiny will not override it.

=head1 METHODS

=head2 apply_roles_to_package

Role::Tiny-&gt;apply_roles_to_package('Some::Package', 'Some::Role', 'Some::Other::Role');

Composes role with package. See also L&lt;Role::Tiny::With&gt;.

=head2 apply_roles_to_object

Role::Tiny-&gt;apply_roles_to_object($foo, qw(Some::Role1 Some::Role2));

Composes roles in order into object directly. Object is reblessed into the resulting class.

=head2 create_class_with_roles

Role::Tiny-&gt;create_class_with_roles('Some::Base', qw(Some::Role1 Some::Role2));

Creates a new class based on base, with the roles composed into it in order. New class is returned.

=head2 is_role

Role::Tiny-&gt;is_role('Some::Role1')

Returns true if the given package is a role.
=head1 CAVEATS

=item * On perl 5.8.8 and earlier, applying a role to an object won't apply any
overloads from the role to all copies of the object.

=back

=head1 SEE ALSO

L<Role::Tiny> is the attribute-less subset of L<Moo::Role>; L<Moo::Role> is
a meta-protocol-less subset of the king of role systems, L<Moose::Role>.

Ovid's L<Role::Basic> provides roles with a similar scope, but without method
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Found in path(s):
* /opt/cola/permits/1144945639_1633499393.08/0/librole-tiny-perl-2-000001-orig-1-tar-gz/Role-Tiny-2.000001/lib/Role/Tiny.pm

1.1084 powermock-reflect 1.6.2

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1.1085 libcarp-assert-perl 0.21-1
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---
abstract: unknown
author:
  - unknown
Debugging vs Production

Because assertions are extra code and because it is sometimes necessary to place them in 'hot' portions of your code where speed is paramount, Carp::Assert provides the option to remove its assert() calls from your program.

So, we provide a way to force Perl to inline the switched off assert() routine, thereby removing almost all performance impact on your production code.

    no Carp::Assert;  # assertions are off.
    assert(1==1) if DEBUG;
DEBUG is a constant set to 0. Adding the 'if DEBUG' condition on your assert() call gives perl the cue to go ahead and remove assert() call from your program entirely, since the if conditional will always be false.

```perl
# With C<no Carp::Assert> the assert() has no impact.
for (1..100) {
    assert( do_some_really_time_consuming_check ) if DEBUG;
}
```

If C<if DEBUG> gets too annoying, you can always use affirm().

```perl
# Once again, affirm() has (almost) no impact with C<no Carp::Assert>
for (1..100) {
    affirm { do_some_really_time_consuming_check ];
}
```

Another way to switch off all asserts, system wide, is to define the NDEBUG or the PERL_NDEBUG environment variable.

You can safely leave out the "if DEBUG" part, but then your assert() function will always execute (and its arguments evaluated and time spent). To get around this, use affirm(). You still have the overhead of calling a function but at least its arguments will not be evaluated.

=head1 Differences from ANSI C

assert() is intended to act like the function from ANSI C fame. Unfortunately, due to Perl's lack of macros or strong inlining, it's not nearly as unobtrusive.

Well, the obvious one is the "if DEBUG" part. This is cleanest way I could think of to cause each assert() call and its arguments to be removed from the program at compile-time, like the ANSI C macro does.

Also, this version of assert does not report the statement which failed, just the line number and call frame via Carp::confess. You can't do C<assert('$a == $b')> because $a and $b will probably be lexical, and thus unavailable to assert(). But with Perl, unlike C, you always have the source to look through, so the need isn't as great.

=head1 EFFICIENCY

With C<no Carp::Assert> (or NDEBUG) and using the C<if DEBUG> suffixes on all your assertions, Carp::Assert has almost no impact on your
production code. I say almost because it does still add some load-time to your code (I've tried to reduce this as much as possible).

If you forget the C<if DEBUG> on an C<assert()> or C<should()> or C<shouldnt()>, its arguments are still evaluated and thus will impact your code. You'll also have the extra overhead of calling a subroutine (even if that subroutine does nothing).

Forgetting the C<if DEBUG> on an C<affirm()> is not so bad. While you still have the overhead of calling a subroutine (one that does nothing) it will B<not> evaluate its code block and that can save a lot.

Try to remember the B<if DEBUG>.

=head1 ENVIRONMENT

=over 4

=item NDEBUG

Defining NDEBUG switches off all assertions. It has the same effect as changing "use Carp::Assert" to "no Carp::Assert" but it effects all code.

=item PERL_NDEBUG

Same as NDEBUG and will override it. Its provided to give you something which won't conflict with any C programs you might be working on at the same time.

=back

=head1 BUGS, CAVETS and other MUSINGS

=head2 Conflicts with C<POSIX.pm>

The C<POSIX> module exports an C<assert> routine which will conflict with C<Carp::Assert> if both are used in the same namespace. If you are using both together, prevent C<POSIX> from exporting like so:

 use POSIX ();
 use Carp::Assert;

Since C<POSIX> exports way too much, you should be using it like that anyway.
affirm() mucks with the expression's caller and it is run in an eval so anything that checks $^S will be wrong.

=head2 C<shouldn't>

Yes, there is a C<shouldn't> routine. It mostly works, but you B<must> put the C<if DEBUG> after it.

=head2 missing C<if DEBUG>

It would be nice if we could warn about missing C<if DEBUG>.

=head1 SEE ALSO


L<Carp::Assert::More> provides a set of convenience functions that are wrappers around C<Carp::Assert>.

L<Sub::Assert> provides support for subroutine pre- and post-conditions. The documentation says it's slow.

L<PerlX::Assert> provides compile-time assertions, which are usually optimised away at compile time. Currently part of the L<Moops> distribution, but may get its own distribution sometime in 2014.

L<Devel::Assert> also provides an C<assert> function, for Perl >= 5.8.1.

L<assertions> provides an assertion mechanism for Perl >= 5.9.0.

=head1 REPOSITORY

L<https://github.com/schwern/Carp-Assert>

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1.1086 slf4j-log4j 1.7.21

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   =pod

   =encoding utf-8
=head1 NAME

Moo - Minimalist Object Orientation (with Moose compatibility)

=head1 SYNOPSIS

package Cat::Food;

use Moo;
use strictures 2;
use namespace::clean;

sub feed_lion {
    my $self = shift;
    my $amount = shift || 1;

    $self->pounds( $self->pounds - $amount );
}

has taste => (  
is => 'ro',
);

has brand => (  
is => 'ro',
    isa => sub {  
        die "Only SWEET-TREATZ supported!" unless $_[0] eq 'SWEET-TREATZ'  
    },
);

has pounds => (  
is => 'rw',
    isa => sub { die "$_[0] is too much cat food!" unless $_[0] < 15 },
);

1;

And elsewhere:

my $full = Cat::Food->new(  
taste => 'DELICIOUS.',
    brand => 'SWEET-TREATZ',
    pounds => 10,
);

$full->feed_lion;
say $full->pounds;

=head1 DESCRIPTION

C<Moo> is an extremely light-weight Object Orientation system. It allows one to
concisely define objects and roles with a convenient syntax that avoids the
details of Perl's object system. C<Moo> contains a subset of L<Moose> and is
optimised for rapid startup.

C<Moo> avoids depending on any XS modules to allow for simple deployments. The
name C<Moo> is based on the idea that it provides almost -- but not quite --
two thirds of L<Moose>.

Unlike L<Mouse> this module does not aim at full compatibility with
L<Moose>’s surface syntax, preferring instead to provide full interoperability
via the metaclass inflation capabilities described in L</MOO AND MOOSE>.

For a full list of the minor differences between L<Moose> and L<Moo>’s surface
syntax, see L</INCOMPATIBILITIES WITH MOOSE>.

=head1 WHY MOO EXISTS

If you want a full object system with a rich Metaprotocol, L<Moose> is
already wonderful.

But if you don't want to use L<Moose>, you may not want "less metaprotocol"
like L<Mouse> offers, but you probalby want "no metaprotocol", which is what
Moo provides. C<Moo> is ideal for some situations where deployment or startup
time precludes using L<Moose> and L<Mouse>:

=over 2

=item a command line or CGI script where fast startup is essential

=item code designed to be deployed as a single file via L<App::FatPacker>

=item a CPAN module that may be used by others in the above situations

=back

C<Moo> maintains transparent compatibility with L<Moose> so if you install and
load L<Moose> you can use Moo classes and roles in L<Moose> code without
modification.

Moo -- Minimal Object Orientation -- aims to make it smooth to upgrade to
L<Moose> when you need more than the minimal features offered by Moo.

=head1 MOO AND MOOSE
If $\text{L<Moo>}' detects $\text{L<Moose>}$ being loaded, it will automatically register metaclasses for your $\text{L<Moo>}' and $\text{L<Moo::Role>}' packages, so you should be able to use them in $\text{L<Moose>}' code without modification.

$L<$Moo>' will also create $L<$Moose type constraints$|$Moose::Manual::Types> for $L<$Moo>' classes and roles, so that in Moose classes C<< isa => 'MyMooClass' >> and C<< isa => 'MyMooRole' >> work the same as for $L<$Moose>' classes and roles.

Extending a $L<$Moose>' class or consuming a $L<$Moose::Role>' will also work.

Extending a $L<$Mouse>' class or consuming a $L<$Mouse::Role>' will also work. But note that we don't provide $L<$Mouse>' metaclasses or metaroles so the other way around doesn't work. This feature exists for $L<$Any::Moose> users porting to $L<$Moo>; enabling $L<$Mouse>' users to use $L<$Moo>' classes is not a priority for us.

This means that there is no need for anything like $L<$Any::Moose> for Moo code - Moo and Moose code should simply interoperate without problem. To handle $L<$Mouse>' code, you'll likely need an empty Moo role or class consuming or extending the $L<$Mouse>' stuff since it doesn't register true $L<$Moose> metaclasses like $L<$Moo>' does.

If you need to disable the metaclass creation, add:

```perl
no Moo::sification;
```

to your code before Moose is loaded, but bear in mind that this switch is global and turns the mechanism off entirely so don't put this in library code.

=head1 MOO AND CLASS::XSACCESSOR

If a new enough version of $L<Class::XSAccessor>' is available, it will be used to generate simple accessors, readers, and writers for better performance. Simple accessors are those without lazy defaults, type checks/coercions, or triggers. Readers and writers generated by $L<Class::XSAccessor>' will behave slightly differently: they will reject attempts to call them with the incorrect number of parameters.

=head1 MOO VERSUS ANY::MOOSE

$L<$Any::Moose> will load $L<$Mouse> normally, and $L<$Moose> in a program using $L<$Moose>' - which theoretically allows you to get the startup time of $L<$Mouse> without disadvantaging $L<$Moose>' users.

Sadly, this doesn't entirely work, since the selection is load order dependent - $L<$Moo>'s metaclass inflation system explained above in L</MOO AND MOOSE> is significantly more reliable.
So if you want to write a CPAN module that loads fast or has only pure perl dependencies but is also fully usable by L<Moose> users, you should be using L<Moo>.

For a full explanation, see the article L<http://shadow.cat/blog/matt-s-trout/moo-versus-any-moose> which explains the differing strategies in more detail and provides a direct example of where L<Moo> succeeds and L<Any::Moose> fails.

=head1 IMPORTED METHODS

=head2 new

Foo::Bar->new( attr1 => 3 );

or

Foo::Bar->new( { attr1 => 3 } );

=head2 BUILDARGS

sub BUILDARGS {
    my ( $class, @args ) = @_;

    unshift @args, "attr1" if @args % 2 == 1;

    return { @args };  
}

Foo::Bar->new( 3 );

The default implementation of this method accepts a hash or hash reference of named parameters. If it receives a single argument that isn't a hash reference it throws an error.

You can override this method in your class to handle other types of options passed to the constructor.

This method should always return a hash reference of named options.

=head2 FOREIGNBUILDARGS

If you are inheriting from a non-Moo class, the arguments passed to the parent class constructor can be manipulated by defining a C<FOREIGNBUILDARGS> method. It will receive the same arguments as C<BUILDARGS>, and should return a list of arguments to pass to the parent class constructor.

=head2 BUILD
Define a C<BUILD> method on your class and the constructor will automatically call the C<BUILD> method from parent down to child after the object has been instantiated. Typically this is used for object validation or possibly logging.

=head2 DEMOLISH

If you have a C<DEMOLISH> method anywhere in your inheritance hierarchy, a C<DESTROY> method is created on first object construction which will call C<< $instance->DEMOLISH($in_global_destruction) >> for each C<DEMOLISH> method from child upwards to parents.

Note that the C<DESTROY> method is created on first construction of an object of your class in order to not add overhead to classes without C<DEMOLISH> methods; this may prove slightly surprising if you try and define your own.

=head2 does

if ($foo->does('Some::Role1')) {
  ...
}

Returns true if the object composes in the passed role.

=head1 IMPORTED SUBROUTINES

=head2 extends

extends 'Parent::Class';

Declares a base class. Multiple superclasses can be passed for multiple inheritance but please consider using L<roles|Moo::Role> instead. The class will be loaded but no errors will be triggered if the class can't be found and there are already subs in the class.

Calling extends more than once will REPLACE your superclasses, not add to them like 'use base' would.

=head2 with

with 'Some::Role1';

or

with 'Some::Role1', 'Some::Role2';

Composes one or more L<Moo::Role> (or L<Role::Tiny>) roles into the current
class. An error will be raised if these roles cannot be composed because they have conflicting method definitions. The roles will be loaded using the same mechanism as C<extends> uses.

=head2 has

has attr => (
    is => 'ro',
);

Declares an attribute for the class.

package Foo;
use Moo;
has 'attr' => (
    is => 'ro'
);

package Bar;
use Moo;
extends 'Foo';
has '+attr' => (
    default => sub { "blah" },
);

Using the C<+> notation, it's possible to override an attribute.

The options for C<has> are as follows:

=over 2
=item * C<is>

B<required>, may be C<ro>, C<lazy>, C<rwp> or C<rw>.

C<ro> stands for "read-only" and generates an accessor that dies if you attempt to write to it - i.e. a getter only - by defaulting C<reader> to the name of the attribute.

C<lazy> generates a reader like C<ro>, but also sets C<lazy> to 1 and C<builder> to C<_build_${attribute_name}> to allow on-demand generated attributes. This feature was my attempt to fix my incompetence when originally designing C<lazy_build>, and is also implemented by L<MooseX::AttributeShortcuts>. There is, however, nothing to stop you using C<lazy> and C<builder> yourself with C<rwp> or C<rw> - it's just that this isn't generally a good idea so we don't provide a shortcut for it.

C<rwp> stands for "read-write protected" and generates a reader like C<ro>, but
also sets C<writer> to C<_set_${attribute_name}> for attributes that are
designed to be written from inside of the class, but read-only from outside.
This feature comes from L<MooseX::AttributeShortcuts>.

C<rw> stands for "read-write" and generates a normal getter/setter by
defaulting the C<accessor> to the name of the attribute specified.

=item * C<isa>

Takes a coderef which is used to validate the attribute. Unlike L<Moose>, Moo
does not include a basic type system, so instead of doing C<< isa => 'Num' >>,
one should do

use Scalar::Util qw(looks_like_number);
...
isa => sub {
   die "$_[0] is not a number!" unless looks_like_number $_[0]
},

Note that the return value for C<isa> is discarded. Only if the sub dies does
type validation fail.

L<Sub::Quote aware|/SUB QUOTE AWARE>

Since L<Moo> does B<not> run the C<isa> check before C<coerce> if a coercion
subroutine has been supplied, C<isa> checks are not structural to your code
and can, if desired, be omitted on non-debug builds (although if this results
in an uncaught bug causing your program to break, the L<Moo> authors guarantee
nothing except that you get to keep both halves).

If you want L<Moose> compatible or L<MooseX::Types> style named types, look at
L<Type::Tiny>.

To cause your C<isa> entries to be automatically mapped to named
L<Moose::Meta::TypeConstraint> objects (rather than the default behaviour
of creating an anonymous type), set:

$Moo::HandleMoose::TYPE_MAP[$isa_coderef] = sub {
   require MooseX::Types::Something;
   return MooseX::Types::Something::TypeName();
};

Note that this example is purely illustrative; anything that returns a
L<Moose::Meta::TypeConstraint> object or something similar enough to it to
make L<Moose> happy is fine.

=item * C<coerce>
Takes a coderef which is meant to coerce the attribute. The basic idea is to do something like the following:

```perl
coerce => sub {
    $_[0] % 2 ? $_[0] : $_[0] + 1
},
```

Note that L<Moo> will always execute your coercion: this is to permit C<isa> entries to be used purely for bug trapping, whereas coercions are always structural to your code. We do, however, apply any supplied C<isa> check after the coercion has run to ensure that it returned a valid value.

L<Sub::Quote aware>/SUB QUOTE AWARE>

If the C<isa> option is a blessed object providing a C<coerce> or C<coercion> method, then the C<coerce> option may be set to just C<1>.

=item * C<handles>

Takes a string

```perl
handles => 'RobotRole'
```

Where C<RobotRole> is a L<role>Moo::Role> that defines an interface which becomes the list of methods to handle.

Takes a list of methods

```perl
handles => [ qw( one two ) ]
```

Takes a hashref

```perl
handles => {
    un => 'one',
}
```

=item * C<trigger>

Takes a coderef which will get called any time the attribute is set. This includes the constructor, but not default or built values. The coderef will be invoked against the object with the new value as an argument.

If you set this to just C<1>, it generates a trigger which calls the C<_trigger_${attr_name}> method on C<$self>. This feature comes from L<MooseX::AttributeShortcuts>.

Note that Moose also passes the old value, if any; this feature is not yet supported.
L<Sub::Quote aware|/SUB QUOTE AWARE>

=item * C<default>

Takes a coderef which will get called with $self as its only argument to populate an attribute if no value for that attribute was supplied to the constructor. Alternatively, if the attribute is lazy, C<default> executes when the attribute is first retrieved if no value has yet been provided.

If a simple scalar is provided, it will be inlined as a string. Any non-code reference (hash, array) will result in an error - for that case instead use a code reference that returns the desired value.

Note that if your default is fired during new() there is no guarantee that other attributes have been populated yet so you should not rely on their existence.

L<Sub::Quote aware|/SUB QUOTE AWARE>

=item * C<predicate>

Takes a method name which will return true if an attribute has a value.

If you set this to just C<1>, the predicate is automatically named C<has_${attr_name}> if your attribute's name does not start with an underscore, or C<_has_${attr_name_without_the_underscore}> if it does. This feature comes from L<MooseX::AttributeShortcuts>.

=item * C<builder>

Takes a method name which will be called to create the attribute - functions exactly like default except that instead of calling $default->($self);

Moo will call $self->$builder;

The following features come from L<MooseX::AttributeShortcuts>:

If you set this to just C<1>, the builder is automatically named C<_build_${attr_name}>.

If you set this to a coderef or code-convertible object, that variable will be installed under C<$class::_build_${attr_name}> and the builder set to the same name.
=item * C<clearer>

Takes a method name which will clear the attribute.

If you set this to just C<1>, the clearer is automatically named 
C<clear_${attr_name}> if your attribute's name does not start with an 
underscore, or C<_clear_${attr_name_without_the_underscore}> if it does. 
This feature comes from L<MooseX::AttributeShortcuts>.

B<NOTE:> If the attribute is C<lazy>, it will be regenerated from C<default> or 
C<builder> the next time it is accessed. If it is not lazy, it will be C<undef>.

=item * C<lazy>

B<Boolean>. Set this if you want values for the attribute to be grabbed 
lazily. This is usually a good idea if you have a L<builder> which requires 
another attribute to be set.

=item * C<required>

B<Boolean>. Set this if the attribute must be passed on object instantiation.

=item * C<reader>

The name of the method that returns the value of the attribute. If you like 
Java style methods, you might set this to C<get_foo>

=item * C<writer>

The value of this attribute will be the name of the method to set the value of 
the attribute. If you like Java style methods, you might set this to 
C<set_foo>.

=item * C<weak_ref>

B<Boolean>. Set this if you want the reference that the attribute contains to 
be weakened. Use this when circular references, which cause memory leaks, are 
possible.

=item * C<init_arg>

Takes the name of the key to look for at instantiation time of the object. A 
common use of this is to make an underscored attribute have a non-underscored 
initialization name. C<undef> means that passing the value in on instantiation 
is ignored.

=item * C<moosify>
Takes either a coderef or array of coderefs which is meant to transform the given attributes specifications if necessary when upgrading to a Moose role or class. You shouldn't need this by default, but is provided as a means of possible extensibility.

=head2 before

before foo => sub { ... };

See L<< Class::Method::Modifiers/before method(s) => sub { ... }; >> for full documentation.

=head2 around

around foo => sub { ... };

See L<< Class::Method::Modifiers/around method(s) => sub { ... }; >> for full documentation.

=head2 after

after foo => sub { ... };

See L<< Class::Method::Modifiers/after method(s) => sub { ... }; >> for full documentation.

=head1 SUB QUOTE AWARE

L<Sub::Quote/quote_sub> allows us to create coderefs that are "inlineable," giving us a handy, XS-free speed boost. Any option that is L<Sub::Quote> aware can take advantage of this.

To do this, you can write

use Sub::Quote;

use Moo;
use namespace::clean;

has foo => (  
is => 'ro',  
isa => quote_sub(q{ die "Not <3" unless $_[0] < 3 })  );

which will be inlined as
do {
    local @_ = ($_[0]->{foo});
    die "Not <3" unless @_[0] < 3;
}

or to avoid localizing @_,

has foo => {
    is => 'ro',
    isa => quote_sub(q{ my ($val) = @_; die "Not <3" unless $val < 3 })
};

which will be inlined as

do {
    my ($val) = ($_[0]->{foo});
    die "Not <3" unless $val < 3;
}

See L<Sub::Quote> for more information, including how to pass lexical
captures that will also be compiled into the subroutine.

=head1 CLEANING UP IMPORTS

L<Moo> will not clean up imported subroutines for you; you will have
to do that manually. The recommended way to do this is to declare your
imports first, then C<use Moo>, then C<use namespace::clean>.
Anything imported before L<namespace::clean> will be scrubbed.
Anything imported or declared after will be still be available.

package Record;

use Digest::MD5 qw(md5_hex);

use Moo;
use namespace::clean;

has name => (is => 'ro', required => 1);
has id => (is => 'lazy');
sub _build_id {
    my ($self) = @_;
    return md5_hex($self->name);
}

1;

If you were to import C<md5_hex> after L<namespace::clean> you would
be able to call C<< ->md5_hex() >> on your C<Record> instances (and it probably wouldn't do what you expect!).

L<Moo::Role>s behave slightly differently. Since their methods are composed into the consuming class, they can do a little more for you automatically. As long as you declare your imports before calling C<use Moo::Role>, those imports and the ones L<Moo::Role> itself provides will not be composed into consuming classes so there's usually no need to use L<namespace::clean>.

On L<namespace::autoclean>: Older versions of L<namespace::autoclean> would inflate Moo classes to full L<Moose> classes, losing the benefits of Moo. If you want to use L<namespace::autoclean> with a Moo class, make sure you are using version 0.16 or newer.

=head1 INCOMPATIBILITIES WITH MOOSE

There is no built-in type system. C<isa> is verified with a coderef; if you need complex types, L<Type::Tiny> can provide types, type libraries, and will work seamlessly with both L<Moo> and L<Moose>. L<Type::Tiny> can be considered the successor to L<MooseX::Types> and provides a similar API, so that you can write

use Types::Standard;
has days_to_live => (is => 'ro', isa => Int);

C<initializer> is not supported in core since the author considers it to be a bad idea and Moose best practices recommend avoiding it. Meanwhile C<trigger> or C<coerce> are more likely to be able to fulfill your needs.

There is no meta object. If you need this level of complexity you need L<Moose> - Moo is small because it explicitly does not provide a metaprotoocol. However, if you load L<Moose>, then

Class::MOP::class_of($moo_class_or_role)

will return an appropriate metaclass pre-populated by L<Moo>.

No support for C<super>, C<override>, C<inner>, or C<augment> - the author considers augment to be a bad idea, and override can be translated:

override foo => sub {
  ...
  super();
  ...
};

around foo => sub {


my ($orig, $self) = (shift, shift);
...
$self->$orig(@_);
...}

The C<dump> method is not provided by default. The author suggests loading L<Devel::Dwarn> into C<main::> (via C<perl -MDevel::Dwarn ...> for example) and using C<$obj-E<gt>$::Dwarn()> instead.

L</default> only supports coderefs and plain scalars, because passing a hash or array reference as a default is almost always incorrect since the value is then shared between all objects using that default.

C<lazy_build> is not supported; you are instead encouraged to use the C<< is => 'lazy' >> option supported by L<Moo> and L<MooseX::AttributeShortcuts>.

C<auto_deref> is not supported since the author considers it a bad idea and it has been considered best practice to avoid it for some time.

C<documentation> will show up in a L<Moose> metaclass created from your class but is otherwise ignored. Then again, L<Moose> ignores it as well, so this is arguably not an incompatibility.

Since C<coerce> does not require C<isa> to be defined but L<Moose> does require it, the metaclass inflation for coerce alone is a trifle insane and if you attempt to subtype the result will almost certainly break.

C<BUILDARGS> is not triggered if your class does not have any attributes. Without attributes, C<BUILDARGS> return value would be ignored, so we just skip calling the method instead.

Handling of warnings: when you C<use Moo> we enable strict and warnings, in a similar way to Moose. The authors recommend the use of C<strictures>, which enables FATAL warnings, and several extra pragmas when used in development: L<indirect>, L<multidimensional>, and L<bareword::filehandles>.

Additionally, L<Moo> supports a set of attribute option shortcuts intended to reduce common boilerplate. The set of shortcuts is the same as in the L<Moose> module L<MooseX::AttributeShortcuts> as of its version 0.009+. So if you:

    package MyClass;
    use Moo;
    use strictures 2;

The nearest L<Moose> invocation would be:
package MyClass;

use Moose;
use warnings FATAL => "all";
use MooseX::AttributeShortcuts;

or, if you're inheriting from a non-Moose class,

package MyClass;

use Moose;
use MooseX::NonMoose;
use warnings FATAL => "all";
use MooseX::AttributeShortcuts;

Finally, Moose requires you to call

    __PACKAGE__->meta->make_immutable;

at the end of your class to get an inlined (i.e. not horribly slow)
constructor. Moo does it automatically the first time ->new is called
on your class. (C<make_immutable> is a no-op in Moo to ease migration.)

An extension L<MooX::late> exists to ease translating Moose packages
to Moo by providing a more Moose-like interface.

=head1 SUPPORT

Users' IRC: #moose on irc.perl.org

Development and contribution IRC: #web-simple on irc.perl.org

Bugtracker: L<https://rt.cpan.org/Public/Dist/Display.html?Name=Moo>

Git repository: L<git://github.com/moose/Moo.git>

Git browser: L<https://github.com/moose/Moo>

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=cut
NAME
Moo - Minimalist Object Orientation (with Moose compatibility)

SYNOPSIS
package Cat::Food;

use Moo;
use strictures 2;
use namespace::clean;

sub feed_lion {
    my $self = shift;
    my $amount = shift || 1;

    $self->pounds( $self->pounds - $amount );
}

has taste => (is => 'ro',);

has brand => (is => 'ro',
    isa => sub {
        die "Only SWEET-TREATZ supported!" unless $_[0] eq 'SWEET-TREATZ';
    },
);

has pounds => (is => 'rw',
    isa => sub { die "$_[0] is too much cat food!" unless $_[0] < 15 },
);

1;

And elsewhere:

my $full = Cat::Food->new(
    taste  => 'DELICIOUS.',
    brand  => 'SWEET-TREATZ',
    pounds => 10,
);

$full->feed_lion;
say $full->pounds;

DESCRIPTION
"Moo" is an extremely light-weight Object Orientation system. It allows one to concisely define objects and roles with a convenient syntax that avoids the details of Perl's object system. "Moo" contains a subset of Moose and is optimised for rapid startup.

"Moo" avoids depending on any XS modules to allow for simple deployments. The name "Moo" is based on the idea that it provides almost -- but not quite -- two thirds of Moose.

Unlike Mouse this module does not aim at full compatibility with Moose's surface syntax, preferring instead to provide full interoperability via the metaclass inflation capabilities described in "MOO AND MOOSE".

For a full list of the minor differences between Moose and Moo's surface syntax, see "INCOMPATIBILITIES WITH MOOSE".

WHY MOO EXISTS
If you want a full object system with a rich Metaprotocol, Moose is already wonderful.

But if you don't want to use Moose, you may not want "less metaprotocol" like Mouse offers, but you probably want "no metaprotocol", which is what Moo provides. "Moo" is ideal for some situations where deployment or startup time precludes using Moose and Mouse:

a command line or CGI script where fast startup is essential
code designed to be deployed as a single file via App::FatPacker
a CPAN module that may be used by others in the above situations

"Moo" maintains transparent compatibility with Moose so if you install and load Moose you can use Moo classes and roles in Moose code without modification.

Moo -- Minimal Object Orientation -- aims to make it smooth to upgrade to Moose when you need more than the minimal features offered by Moo.

MOO AND MOOSE
If Moo detects Moose being loaded, it will automatically register metaclasses for your Moo and Moo::Role packages, so you should be able to use them in Moose code without modification.

Moo will also create Moose type constraints for Moo classes and roles, so that in Moose classes "isa => 'MyMooClass'" and "isa => 'MyMooRole" work the same as for Moose classes and roles.
Extending a Moose class or consuming a Moose::Role will also work.

Extending a Mouse class or consuming a Mouse::Role will also work. But note that we don't provide Mouse metaclasses or metaroles so the other way around doesn't work. This feature exists for Any::Moose users porting to Moo; enabling Mouse users to use Moo classes is not a priority for us.

This means that there is no need for anything like Any::Moose for Moo code - Moo and Moose code should simply interoperate without problem. To handle Mouse code, you'll likely need an empty Moo role or class consuming or extending the Mouse stuff since it doesn't register true Moose metaclasses like Moo does.

If you need to disable the metaclass creation, add:

```perl
no Moo::sification;
```

to your code before Moose is loaded, but bear in mind that this switch is global and turns the mechanism off entirely so don't put this in library code.

**MOO AND CLASS::XSACCESSOR**

If a new enough version of Class::XSAccessor is available, it will be used to generate simple accessors, readers, and writers for better performance. Simple accessors are those without lazy defaults, type checks/coercions, or triggers. Readers and writers generated by Class::XSAccessor will behave slightly differently: they will reject attempts to call them with the incorrect number of parameters.

**MOO VERSUS ANY::MOOSE**

Any::Moose will load Mouse normally, and Moose in a program using Moose - which theoretically allows you to get the startup time of Mouse without disadvantaging Moose users.

Sadly, this doesn't entirely work, since the selection is load order dependent - Moo's metaclass inflation system explained above in "MOO AND MOOSE" is significantly more reliable.

So if you want to write a CPAN module that loads fast or has only pure perl dependencies but is also fully usable by Moose users, you should be using Moo.

For a full explanation, see the article
<http://shadow.cat/blog/matt-s-trout/moo-versus-any-moose> which explains the differing strategies in more detail and provides a direct example of where Moo succeeds and Any::Moose fails.
IMPORTED METHODS
new
   Foo::Bar->new( attr1 => 3 );

or

Foo::Bar->new({ attr1 => 3 });

BUILDARGS
sub BUILDARGS {
   my ( $class, @args ) = @_;

   unshift @args, "attr1" if @args % 2 == 1;

   return { @args };  
}

Foo::Bar->new( 3 );

The default implementation of this method accepts a hash or hash reference of named parameters. If it receives a single argument that isn't a hash reference it throws an error.

You can override this method in your class to handle other types of options passed to the constructor.

This method should always return a hash reference of named options.

FOREIGNBUILDARGS
If you are inheriting from a non-Moo class, the arguments passed to the parent class constructor can be manipulated by defining a "FOREIGNBUILDARGS" method. It will receive the same arguments as "BUILDARGS", and should return a list of arguments to pass to the parent class constructor.

BUILD
Define a "BUILD" method on your class and the constructor will automatically call the "BUILD" method from parent down to child after the object has been instantiated. Typically this is used for object validation or possibly logging.

DEMOLISH
If you have a "DEMOLISH" method anywhere in your inheritance hierarchy, a "DESTROY" method is created on first object construction which will call "$instance->DEMOLISH($in_global_destruction)" for each "DEMOLISH" method from child upwards to parents.
Note that the "DESTROY" method is created on first construction of an object of your class in order to not add overhead to classes without "DEMOLISH" methods; this may prove slightly surprising if you try and define your own.

does
  if ($foo->does('Some::Role1')) {
    ...
  }

Returns true if the object composes in the passed role.

IMPORTED SUBROUTINES
extends
  extends 'Parent::Class';

Declares a base class. Multiple superclasses can be passed for multiple inheritance but please consider using roles instead. The class will be loaded but no errors will be triggered if the class can't be found and there are already subs in the class.

Calling extends more than once will REPLACE your superclasses, not add to them like 'use base' would.

with
  with 'Some::Role1';

or

  with 'Some::Role1', 'Some::Role2';

Composes one or more Moo::Role (or Role::Tiny) roles into the current class. An error will be raised if these roles cannot be composed because they have conflicting method definitions. The roles will be loaded using the same mechanisms as "extends" uses.

has
  has attr =&gt; ( 
    is =&gt; 'ro',
  );

Declares an attribute for the class.

package Foo;
use Moo;
has 'attr' =&gt; ( 
  is =&gt; 'ro'
);
package Bar;
use Moo;
extends 'Foo';
has '+attr' => ( 
    default => sub { "blah" },
);

Using the "+" notation, it's possible to override an attribute.

The options for "has" are as follows:

* "is"

required, may be "ro", "lazy", "rwp" or "rw".

"ro" stands for "read-only" and generates an accessor that dies if you attempt to write to it - i.e. a getter only - by defaulting "reader" to the name of the attribute.

"lazy" generates a reader like "ro", but also sets "lazy" to 1 and "builder" to "_build_${attribute_name}" to allow on-demand generated attributes. This feature was my attempt to fix my incompetence when originally designing "lazy_build", and is also implemented by MooseX::AttributeShortcuts. There is, however, nothing to stop you using "lazy" and "builder" yourself with "rwp" or "rw" - it's just that this isn't generally a good idea so we don't provide a shortcut for it.

"rwp" stands for "read-write protected" and generates a reader like "ro", but also sets "writer" to "_set_${attribute_name}" for attributes that are designed to be written from inside of the class, but read-only from outside. This feature comes from MooseX::AttributeShortcuts.

"rw" stands for "read-write" and generates a normal getter/setter by defaulting the "accessor" to the name of the attribute specified.

* "isa"

Takes a coderef which is used to validate the attribute. Unlike Moose, Moo does not include a basic type system, so instead of doing "isa => 'Num'", one should do

use Scalar::Util qw(looks_like_number);
...
isa => sub { 
    die "$_[0] is not a number!" unless looks_like_number $_[0]
Note that the return value for "isa" is discarded. Only if the sub
dies does type validation fail.

Sub::Quote aware

Since Moo does not run the "isa" check before "coerce" if a coercion
subroutine has been supplied, "isa" checks are not structural to your
code and can, if desired, be omitted on non-debug builds (although if
this results in an uncaught bug causing your program to break, the Moo
authors guarantee nothing except that you get to keep both halves).

If you want Moose compatible or MooseX::Types style named types, look
at Type::Tiny.

To cause your "isa" entries to be automatically mapped to named
Moose::Meta::TypeConstraint objects (rather than the default behaviour
of creating an anonymous type), set:

```perl
$Moo::HandleMoose::TYPE_MAP{$isa_coderef} = sub {
    require MooseX::Types::Something;
    return MooseX::Types::Something::TypeName();
};
```

Note that this example is purely illustrative; anything that returns a
Moose::Meta::TypeConstraint object or something similar enough to it
to make Moose happy is fine.

* "coerce"

Takes a coderef which is meant to coerce the attribute. The basic idea
is to do something like the following:

```perl
coerce => sub {
    $_[0] % 2 ? $_[0] : $_[0] + 1
},
```

Note that Moo will always execute your coercion: this is to permit
"isa" entries to be used purely for bug trapping, whereas coercions
are always structural to your code. We do, however, apply any supplied
"isa" check after the coercion has run to ensure that it returned a
valid value.

Sub::Quote aware

If the "isa" option is a blessed object providing a "coerce" or
"coercion" method, then the "coerce" option may be set to just 1.
* "handles"

Takes a string

    handles => 'RobotRole'

Where "RobotRole" is a role that defines an interface which becomes the list of methods to handle.

Takes a list of methods

    handles => [ qw( one two ) ]

Takes a hashref

    handles => {
        un => 'one',
    }

* "trigger"

Takes a coderef which will get called any time the attribute is set. This includes the constructor, but not default or built values. The coderef will be invoked against the object with the new value as an argument.

If you set this to just 1, it generates a trigger which calls the "_trigger_${attr_name}" method on $self. This feature comes from MooseX::AttributeShortcuts.

Note that Moose also passes the old value, if any; this feature is not yet supported.

Sub::Quote aware

* "default"

Takes a coderef which will get called with $self as its only argument to populate an attribute if no value for that attribute was supplied to the constructor. Alternatively, if the attribute is lazy, "default" executes when the attribute is first retrieved if no value has yet been provided.

If a simple scalar is provided, it will be inlined as a string. Any non-code reference (hash, array) will result in an error - for that case instead use a code reference that returns the desired value.
Note that if your default is fired during new() there is no guarantee that other attributes have been populated yet so you should not rely on their existence.

Sub::Quote aware

* "predicate"

Takes a method name which will return true if an attribute has a value.

If you set this to just 1, the predicate is automatically named "has_${attr_name}" if your attribute's name does not start with an underscore, or "_${has_name}_without_the_underscore" if it does.
This feature comes from MooseX::AttributeShortcuts.

* "builder"

Takes a method name which will be called to create the attribute -
functions exactly like default except that instead of calling

$default->($self);

Moo will call

$self->$builder;

The following features come from MooseX::AttributeShortcuts:

If you set this to just 1, the builder is automatically named
"_build_${attr_name}".

If you set this to a coderef or code-convertible object, that variable
will be installed under "$class::_build_${attr_name}" and the builder
set to the same name.

* "clearer"

Takes a method name which will clear the attribute.

If you set this to just 1, the clearer is automatically named
"clear_${attr_name}" if your attribute's name does not start with an
underscore, or "_${clear_name}_without_the_underscore" if it does. This feature comes from MooseX::AttributeShortcuts.

NOTE: If the attribute is "lazy", it will be regenerated from
"default" or "builder" the next time it is accessed. If it is not
lazy, it will be "undef".
* "lazy"

Boolean. Set this if you want values for the attribute to be grabbed lazily. This is usually a good idea if you have a "builder" which requires another attribute to be set.

* "required"

Boolean. Set this if the attribute must be passed on object instantiation.

* "reader"

The name of the method that returns the value of the attribute. If you like Java style methods, you might set this to "get_foo"

* "writer"

The value of this attribute will be the name of the method to set the value of the attribute. If you like Java style methods, you might set this to "set_foo".

* "weak_ref"

Boolean. Set this if you want the reference that the attribute contains to be weakened. Use this when circular references, which cause memory leaks, are possible.

* "init_arg"

Takes the name of the key to look for at instantiation time of the object. A common use of this is to make an underscored attribute have a non-underscored initialization name. "undef" means that passing the value in on instantiation is ignored.

* "moosify"

Takes either a coderef or array of coderefs which is meant to transform the given attributes specifications if necessary when upgrading to a Moose role or class. You shouldn't need this by default, but is provided as a means of possible extensibility.

before
   before foo => sub { ... };

See "before method(s) => sub { ... };" in Class::Method::Modifiers for full documentation.
around
around foo => sub { ... };

See "around method(s) => sub { ... };" in Class::Method::Modifiers for full documentation.

after
after foo => sub { ... };

See "after method(s) => sub { ... };" in Class::Method::Modifiers for full documentation.

SUB QUOTE AWARE
"quote_sub" in Sub::Quote allows us to create coderefs that are "inlineable," giving us a handy, XS-free speed boost. Any option that is Sub::Quote aware can take advantage of this.

To do this, you can write

use Sub::Quote;

use Moo;
use namespace::clean;

has foo => (  
is => 'ro',  
isa => quote_sub(q{ die "Not <3" unless $_[0] < 3 })  );

which will be inlined as

do {  
  local @_ = ($_[0]->{foo});  
  die "Not <3" unless $_[0] < 3;  
}

or to avoid localizing @_,

has foo => (  
is => 'ro',  
isa => quote_sub(q{ my ($val) = @_; die "Not <3" unless $val < 3 })  );

which will be inlined as

do {  
  my ($val) = ($_[0]->{foo});  
}
die "Not <3" unless $val < 3;
}

See Sub::Quote for more information, including how to pass lexical captures that will also be compiled into the subroutine.

CLEANING UP IMPORTS
Moo will not clean up imported subroutines for you; you will have to do that manually. The recommended way to do this is to declare your imports first, then "use Moo", then "use namespace::clean". Anything imported before namespace::clean will be scrubbed. Anything imported or declared after will be still be available.

package Record;

use Digest::MD5 qw(md5_hex);

use Moo;
use namespace::clean;

has name => (is => 'ro', required => 1);
has id => (is => 'lazy');
sub _build_id {
    my ($self) = @_;  
    return md5_hex($self->name);
}

1;

If you were to import "md5_hex" after namespace::clean you would be able to call "->md5_hex()" on your "Record" instances (and it probably wouldn't do what you expect!).

Moo::Roles behave slightly differently. Since their methods are composed into the consuming class, they can do a little more for you automatically. As long as you declare your imports before calling "use Moo::Role", those imports and the ones Moo::Role itself provides will not be composed into consuming classes so there's usually no need to use namespace::clean.

On namespace::autoclean: Older versions of namespace::autoclean would inflate Moo classes to full Moose classes, losing the benefits of Moo.
If you want to use namespace::autoclean with a Moo class, make sure you are using version 0.16 or newer.

INCOMPATIBILITIES WITH MOOSE
There is no built-in type system. "isa" is verified with a coderef; if you need complex types, Type::Tiny can provide types, type libraries,
and will work seamlessly with both Moo and Moose. Type::Tiny can be considered the successor to MooseX::Types and provides a similar API, so that you can write

```perl
use Types::Standard;
has days_to_live => (is => 'ro', isa => Int);
```

"initializer" is not supported in core since the author considers it to be a bad idea and Moose best practices recommend avoiding it. Meanwhile "trigger" or "coerce" are more likely to be able to fulfill your needs.

There is no meta object. If you need this level of complexity you need Moose - Moo is small because it explicitly does not provide a metaprotocol. However, if you load Moose, then

```perl
Class::MOP::class_of($moo_class_or_role)
```

will return an appropriate metaclass pre-populated by Moo.

No support for "super", "override", "inner", or "augment" - the author considers augment to be a bad idea, and override can be translated:

```perl
override foo => sub {
    ...
    super();
    ...
};

around foo => sub {
    my ($orig, $self) = (shift, shift);
    ...
    $self->$orig(@_);
    ...
};
```

The "dump" method is not provided by default. The author suggests loading Devel::Dwarn into "main:" (via "perl -MDevel::Dwarn ..." for example) and using "$obj->$::Dwarn()" instead.

"default" only supports coderefs and plain scalars, because passing a hash or array reference as a default is almost always incorrect since the value is then shared between all objects using that default.

"lazy_build" is not supported; you are instead encouraged to use the "is => 'lazy'" option supported by Moo and MooseX::AttributeShortcuts.

"auto_deref" is not supported since the author considers it a bad idea and it has been considered best practice to avoid it for some time.
"documentation" will show up in a Moose metaclass created from your class but is otherwise ignored. Then again, Moose ignores it as well, so this is arguably not an incompatibility.

Since "coerce" does not require "isa" to be defined but Moose does require it, the metaclass inflation for coerce alone is a trifle insane and if you attempt to subtype the result will almost certainly break.

"BUILDARGS" is not triggered if your class does not have any attributes. Without attributes, "BUILDARGS" return value would be ignored, so we just skip calling the method instead.

Handling of warnings: when you "use Moo" we enable strict and warnings, in a similar way to Moose. The authors recommend the use of "strictures", which enables FATAL warnings, and several extra pragmas when used in development: indirect, multidimensional, and bareword::filehandles.

Additionally, Moo supports a set of attribute option shortcuts intended to reduce common boilerplate. The set of shortcuts is the same as in the Moose module MooseX::AttributeShortcuts as of its version 0.009+. So if you:

```perl
package MyClass;
use Moo;
use strictures 2;
```

The nearest Moose invocation would be:

```perl
package MyClass;
use Moose;
use warnings FATAL => "all";
use MooseX::AttributeShortcuts;
```

or, if you're inheriting from a non-Moose class,

```perl
package MyClass;
use Moose;
use MooseX::NonMoose;
use warnings FATAL => "all";
use MooseX::AttributeShortcuts;
```

Finally, Moose requires you to call

```perl
__PACKAGE__->meta->make_immutable;
```
at the end of your class to get an inlined (i.e. not horribly slow)
constructor. Moo does it automatically the first time ->new is called on
your class. ("make_immutable" is a no-op in Moo to ease migration.)

An extension MooX::late exists to ease translating Moose packages to Moo
by providing a more Moose-like interface.

SUPPORT
Users' IRC: #moose on irc.perl.org

Development and contribution IRC: #web-simple on irc.perl.org

Bugtracker: <https://rt.cpan.org/Public/Dist/Display.html?Name=Moo>

Git repository: <git://github.com/moose/Moo.git>

Git browser: <https://github.com/moose/Moo>

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---
abstract: 'Minimalist Object Orientation (with Moose compatibility)'
author:
  - 'mst - Matt S. Trout (cpan:MSTROUT) <mst@shadowcat.co.uk>'
build_requires:
  Test::Fatal: '0.003'
  Test::More: '0.94'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Moo
no_index:
directory:
  - t
  - xt
recommends:
  Class::XSAccessor: '1.18'
  Sub::Name: '0'
  strictures: '2'
requires:
  Class::Method::Modifiers: '1.1'
Devel::GlobalDestruction: '0.11'
Exporter: '5.57'
Module::Runtime: '0.014'
Role::Tiny: '2'
Scalar::Util: '0'
perl: '5.006'
resources:
  IRC: irc://irc.perl.org/#moose
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Moo
  license: http://dev.perl.org/licenses/
  repository: https://github.com/moose/Moo.git
  version: '2.000002'
x_authority: cpan:MSTROUT
x_breaks:
  App::Commando: '<= 0.012'
  File::DataClass: '<= 0.54.1'
  HTML::Restrict: '== 2.1.5'
  MooX::Emulate::Class::Accessor::Fast: '<= 0.02'
  MySQL::Workbench::Parser: '<= 0.05'
  WebService::Shutterstock: '<= 0.006'

Found in path(s):
* /opt/cola/permits/1144946587_1633499384.18/0/libmoo-perl-2-000002-orig-1-tar-gz/Moo-2.000002/META.yml

1.1091 gnupg 2.2.27-2
1.1091.1 Available under license:

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------------------
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Nori Korean Morphological Analyzer - Apache Lucene Integration

This software includes a binary and/or source version of data from

mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.1098 libalgorithm-diff-perl 1.19.03-1
1.1098.1 Available under license:

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

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w
#
# 'Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
# # This program is free software; you can redistribute it and/or modify it
# # under the same terms as Perl itself.
# # Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
# # Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
# # In this file, "item" usually means "line of text", and "item number" usually
# # means "line number". But theoretically the code could be used more generally
use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;
my $usage = << "ENDUSAGE":
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ''; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ''; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
chomp(@f2 = <F2>);

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;
my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "$n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "$n";

my ($hunk, $oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    }
} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(@f1, @f2);
exit 1;

# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "$n"
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk:

    sub new {
        # Arg1 is output from &LCS::diff (which corresponds to one Block)
        # Arg2 is the number of items (lines, e.g.,) of context around each block
        # This subroutine changes $File_Length_Difference
        # Fields in a Hunk:
        # blocks - a list of Block objects
my ($class, $piece, $context_items) = @_; # this modifies $FLD!

my $block = new Block ($piece);
my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->"length_diff";
$File_Length_Difference += $block->"length_diff";

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->"item_no" : -1;
$a2 = @remove_array ? $remove_array[-1]->"item_no" : -1;
$b1 = @insert_array ? $insert_array[0]->"item_no" : -1;
$b2 = @insert_array ? $insert_array[-1]->"item_no" : -1;
$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;    
    return unless $context_items;  # no context

    # add context before
    my $start1 = $hunk->{"start1"};    
    my $num_added = $context_items > $start1 ? $context_items : $num_added;    
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};    
    $num_added = ($end1 + $context_items > $#f1) ?
        $#f1 - $end1:
        $context_items;    
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;    
    return "" unless $oldhunk;  # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;    

    $hunk->{"start1"} = $oldhunk->{"start1"};    
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
}
else { die "unknown diff"
}

sub output_unified_diff {
  my ($hunk, $fileref1, $fileref2) = @_;  
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@
```
#
  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  # We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  # We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->{"start1"};
  my $hi = $hunk->{"end1"};
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->{"blocks"}}) {
    foreach my $item ($block->remove) {
      my $op = $item->{"sign"}; # -
      my $offset = $item->{"item_no"} - $low + $num_added;
      @outlist[$offset] =~ s/^/$op/;
      $num_removed++;
    }
    foreach my $item ($block->insert) {
      my $op = $item->{"sign"}; # +
      my $i = $item->{"item_no"};
      my $offset = $i - $hunk->{"start2"} + $num_removed;
      splice(@outlist,$offset,0,"$op$$fileref2[$i]");
      $num_added++;
    }
  }

  map {s/$/
  print @outlist;
```
```

sub output_context_diff {
```
my ($hunk, $fileref1, $fileref2) = @_; 
my @blocklist;

print "***************\n";
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ****\n";
my $low = $hunk->"start1";
my $hi = $hunk->"end1";
if (@blocklist = grep {$_->remove} @{$hunk->["blocks"]}) {
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
      @outlist[$item->"item_no" - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/\n/} @outlist; # add \n's
  print @outlist;
}

print "--- $range2 ----\n";
$low = $hunk->"start2";
$hi = $hunk->"end2";
if (@blocklist = grep {$_->insert} @{$hunk->["blocks"]}) {
  my @outlist = @$fileref2[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
      @outlist[$item->"item_no" - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/\n/} @outlist; # add \n's
  print @outlist;
}

sub context_range {
  # Generate a range of item numbers to print. Only print 1 number if the range
  # has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_; 
  my ($start, $end) = ($hunk->["start$flag"],$hunk->["end$flag"]);
$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}
sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length== 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk
# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign
- '+' for insert, '-' for remove
# item_no - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();
# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;

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return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
    # what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!
';
    $remove and return '-
';
    $insert and return '+
';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl

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

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next( ) ) {
    next if $diff->Same();
    my $sep = ";


if(  ! $diff->Items(2)  ) {
  printf "%d,%dd%d\n",
    $diff->Get(qw( Min1 Max1 Max2 ));
} elsif(  ! $diff->Items(1)  ) {
  printf "%da%d,%d\n",
    $diff->Get(qw( Max1 Min2 Max2 ));
} else {
  $sep = "---\n";
  printf "%d,%dc%d,%d\n",
    $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_"   for  $diff->Items(1);
print $sep;
print "> $_"   for  $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw( 
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    \@extra_args,
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the `longest common subsequence' method. In the LCS problem, you have two sequences of items:

a b c d f g h j q z

a b c d e f g i j k r x y z

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

e h i k q r x y
  +  -  +  -  +  +  +

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.
It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
a \times b & \ y \ c \ z \ p \ d \ q \\
a \ b & \ c \ a \ b \ y \ c \ z
\end{align*}
\]

A naive approach might start by matching up the \texttt{a} and \texttt{b} that appear at the beginning of each sequence, like this:

\[
\begin{align*}
a \times b & \ y \ c \ p \ d \ q \\
a & \ b \ c \ a \ b \ y \ c \ z
\end{align*}
\]

This finds the common subsequence \texttt{a b c}. But actually, the LCS is \texttt{a x b y c z}:

\[
\begin{align*}
a \times b & \ y \ c \ z \ p \ d \ q \\
a & \ b \ c \ a \ b \ y \ c \ z
\end{align*}
\]

or

\[
\begin{align*}
a & \ x \ b \ y \ c \ z \ p \ d \ q \\
a & \ b \ c \ a \ b \ y \ c \ z
\end{align*}
\]

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{LCS}, \texttt{LCS_length}, \texttt{LCSidx}, OO interface, \texttt{prepare}, \texttt{diff}, \texttt{sdiff}, \texttt{traverse_sequences}, and \texttt{traverse_balanced}.

=head2 LCS

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\[
\begin{align*}
@\text{lcs} & = \text{LCS}\left(\text{\textbackslash@seq1, \textbackslash@seq2}\right); \\
$\text{lcsref} & = \text{LCS}\left(\text{\textbackslash@seq1, \textbackslash@seq2}\right);
\end{align*}
\]

\texttt{LCS} may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS.

@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation routine.

=head2 LCS_length

This is just like LCS except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to LCS.

=head2 LCSidx

Like LCS except it returns references to two arrays. The first array contains the indices into \@seq1 where the LCS items are located. The second array contains the indices into \@seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

    my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
    my @list1 = @seq1[ @$idx1 ];
    my @list2 = @seq2[ @$idx2 ];
    my @list3 = LCS( \@seq1, \@seq2 );

=head2 new

$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, %opts );

new computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over hunks, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ] Encloses optional arguments
  : Is followed by the default value for an optional argument
  | Separates alternate return results
Method summary:

```perl
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```perl
<bits
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```perl
$pos = $diff->Next();    # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

```perl
C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.
```

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.
=item C<Reset>

$diff->Reset();    # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk

C<Reset> returns the object, so, for example, you could use
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()- >Reset($pos);

C<Copy> takes an optional second argument to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();
$bits = $obj->Diff();

`C<Diff>` returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

`C<3==(1|2)>`. This hunk contains items from `@seq1` and the items from `@seq2` that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from `@seq2` that should be inserted (not items from `@seq1`). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from `@seq1` that should be deleted (not items from `@seq2`). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

`C<Same>` returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

`C<Items>` returns the (number of) items from the specified sequence that
are part of the current hunk.

If the current hunk contains only insertions, then
C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >>
will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and
C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following
will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to
the items rather than the items themselves. By default, the index of
the first item (in each sequence) is 0 but this can be changed by
calling the C<Base> method. So, by default, the following two snippets
return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the
following two snippets I<always> return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is
used when you request range information. The base defaults to 0 so
that range information is returned as array indices. You can set the
base to 1 if you want to report traditional line numbers instead.
=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(?-d+)?(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for Si ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

@diffs     = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

    a b c e h j l m n p
    b c d e f j k l m r s t

would produce the following list:

    (    
        [ [ '-', 0, 'a' ] ],
        [ [ '+', 2, 'd' ] ],
        [ [ '-', 4, 'h' ],
           [ '+', 4, 'f' ] ],
        [ [ '+', 6, 'k' ] ],
    )
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.
Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.
An C<sdiff> of the following two sequences:

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results in

\[
(\["\cdot", \"a\",\"\""],
  \[\"u\", \"b\", \"b\"\],
  \[\"u\", \"c\", \"c\"\],
  \[\"+\", \"\", \"d\"\],
  \[\"u\", \"e\", \"e\"\],
  \[\"c\", \"h\", \"f\"\],
  \[\"u\", \"j\", \"j\"\],
  \[\"+\", \"\", \"k\"\],
  \[\"u\", \"l\", \"l\"\],
  \[\"u\", \"m\", \"m\"\],
  \[\"c\", \"n\", \"r\"\],
  \[\"c\", \"p\", \"s\"\],
  \[\"+\", \"\", \"t\"\],
)
\]

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<diff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```perl
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a  @b  @a  @b
# start start values values
# 0  0  \# =
# 1  0  \# b c = b c
# 3  2  \# = d
# 3  3  \# e = e
# 4  4  \# f = h
# 5  5  \# j = j
# 6  6  \# = k
# 7  6  \# l m = l m
```
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items @diff[0] through @diff[2] - 1 of the first sequence and contains items @diff[1] through @diff[3] - 1 of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair   2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
```
@hunk1b = @b[ 0 .. 0-1 ];

And $C<0..-1>$ returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since $C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];

# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since $C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];

# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>
C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[i]$> and C<$B[j]$> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[i]$> and arrow B is pointing to C<$B[j]$>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(
   \@seq1, \@seq2,
   {   MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
   }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
  },
  undef,   # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);
```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
  },
  $myArgument1,
  $myArgument2,
  $myArgument3,
);
If no \texttt{CHANGE} callback is specified, \texttt{traverse_balanced} will map \texttt{CHANGE} events to \texttt{DISCARD_A} and \texttt{DISCARD_B} actions, therefore resulting in a similar behaviour as \texttt{traverse_sequences} with different order of events.

\texttt{traverse_balanced} might be a bit slower than \texttt{traverse_sequences}, noticeable only while processing huge amounts of data.

The \texttt{sdiff} function of this module is implemented as call to \texttt{traverse_balanced}.

\texttt{traverse_balanced} does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a \texttt{CODE} reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "". Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{

```
my $old = shift;
my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.
AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

LICENSE

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under the same terms as Perl.

MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<diff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

FOUND IN PATH(S):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s
", $lineno+1, $text
    }
}
print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.1099 hk2-utils 2.5.0-b30
1.1099.1 Available under license :

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**1.1100 runc 1.0.0~rc7+git20190403.029124da 0ubuntu1~16.04.4**

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---
abstract: 'Only use Sub::Exporter if you need it'
author:
  - 'Trew - Arthur Axel Schmidt (cpan:FREW) <frioux+cpan@gmail.com>'
build_requires:
  Test::More: 0.88
configure_requires:
NAME
 Sub::Exporter::Progressive - Only use Sub::Exporter if you need it

SYNOPSIS
 package Syntax::Keyword::Gather;

 use Sub::Exporter::Progressive -setup => { 
   exports => [qw( break gather gathered take )],
   groups => { 
     default => [qw( break gather gathered take )],
   },
 };

 # elsewhere

 # uses Exporter for speed
 use Syntax::Keyword::Gather;

 # somewhere else

 # uses Sub::Exporter for features
 use Syntax::Keyword::Gather 'gather', take => { -as => 'grab' };

DESCRIPTION
Sub::Exporter is an incredibly powerful module, but with that power comes great responsibility, er- as well as some runtime penalties. This module is a "Sub::Exporter" wrapper that will let your users just use Exporter if all they are doing is picking exports, but use "Sub::Exporter" if your users try to use "Sub::Exporter"'s more advanced features, like renaming exports, if they try to use them.

Note that this module will export @EXPORT, @EXPORT_OK and %EXPORT_TAGS package variables for "Exporter" to work. Additionally, if your package uses advanced "Sub::Exporter" features like currying, this module will only ever use "Sub::Exporter", so you might as well use it directly.

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=head1 NAME

Sub::Exporter::Progressive - Only use Sub::Exporter if you need it

=head1 SYNOPSIS

package Syntax::Keyword::Gather;

use Sub::Exporter::Progressive -setup => {
    exports => [qw( break gather gathered take )],
    groups => {

default => [qw( break gather gathered take )],

;

# elsewhere

# uses Exporter for speed
use Syntax::Keyword::Gather;

# somewhere else

# uses Sub::Exporter for features
use Syntax::Keyword::Gather 'gather', take => { -as => 'grab' };

=head1 DESCRIPTION

L<Sub::Exporter> is an incredibly powerful module, but with that power comes
great responsibility, er- as well as some runtime penalties. This module
is a C<Sub::Exporter> wrapper that will let your users just use L<Exporter>
if all they are doing is picking exports, but use C<Sub::Exporter> if your
users try to use C<Sub::Exporter>'s more advanced features, like
renaming exports, if they try to use them.

Note that this module will export C<@EXPORT>, C<@EXPORT_OK> and
C<%EXPORT_TAGS> package variables for C<Exporter> to work. Additionally, if
your package uses advanced C<Sub::Exporter> features like currying, this module
will only ever use C<Sub::Exporter>, so you might as well use it directly.

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=cut

Found in path(s):
* /opt/cola/permits/1144945707_1633499454.57/0/libsub-exporter-progressive-perl-0-001011-orig-1-tar-gz/Sub-
  Exporter-Progressive-0.001011/lib/Sub/Exporter/Progressive.pm

1.1104 expat 2.1.0 7ubuntu0.16.04.5
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1.1106 make 4.1 6
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1.1115 dec 0.1.2

1.1116 python-pip 8.1.1 2ubuntu0.6

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- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S

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1.1132 binutils 2.26.1 1ubuntu1~16.04.8

1.1133 libxmu 1.1.2-2

1.1133.1 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
+++ libxmu-1.1.2/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
+
+ [ Julien Cristau ]
+ * 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 Uploaders.
+ * 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 xmilto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmilto 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 Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+   libxmu1-dbgs (Closes: #594500). Thanks to Luca Falavigna for the report.
+
+ [ Cyril Brulebois ]
+ * Add myself to Uploaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
   for the report.
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.

-- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200

libxmu (2:1.0.4-2) unstable; urgency=low

  [ 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 xsfb, 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 xsfb patch rules.
  * Update xsfb to the latest version as of 2008-01-06.
  * Add myself to Uploaders, 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 ${Source-Version}.
+ 
+ -- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+ 
+ +libxmu (1:1.0.2-2) unstable; urgency=low
+ 
+ *[Andres Salomon]*
+ * Test for obj-$\text{DEB\_BUILD\_GNU\_TYPE}$ before creating it during build;
+   idempotency fix.
+ 
+ *[Drew Parsons]*
+ * dbg package has priority extra.
+ 
+ -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+ 
+ +libxmu (1:1.0.2-1) experimental; 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
+   to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+ 
+ -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+ 
+ +libxmu (1:1.0.1-3) unstable; 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
# Open Source Used In Virtual Topology System 2.6.7

12976

+ * 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 libxft-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
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+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),
  +# devel-docs:
  + 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>

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
libXmu 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 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 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: 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 libxmuu1.

+ This package contains the debug versions of the library found in libxmuu6. 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], libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
+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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+
+-------
+
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:
+
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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 +1,3 @@
+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.private: x11 xt xext
 + Cflags: -I$[includedir]
 + Libs: -L$[libdir] -lxmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index a086f83..15dabbf 100644
+++ a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ @ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11
+ Requires: xproto
+ Requires.private: x11
+ Cflags: -I$({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-dbgsym
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbgsym
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
1.1134 solr-dataimporthandler 8.8.2

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https://github.com/yonik/noggit

1.1135 yang-data-api 1.1.1-Carbon

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1.1137 powermgmt-base 1.31+nmu1

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1.1138 mawk 1.3.4.20200120 2

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1.1143 tar 1.34+dfsg-1

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  jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
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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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