Open Source Used In Cisco Meeting Management 3.3

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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.

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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- If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page

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

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

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1.9 pyasn1-modules 0.2.2-1.ph3

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1.10 pip 19.2.3

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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.

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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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3.1.1        3.1         2009       PSF        yes
3.1.2        3.1         2010       PSF        yes
3.2          3.1         2010       PSF        yes

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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History
-------

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.12 channels-redis 2.4.2

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

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

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

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1.16 libyaml 0.2.2

1.16.1 Available under license:

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**1.17 isodate 0.6.0**

**1.17.1 Available under license:**

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```
Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:
ISO 8601 date/time parser
```

This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.) Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally
fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

Documentation
-------------

Currently there are four parsing methods available.
* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
  parses an ISO 8601 date-time string into a *datetime* object
* parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration* object.
* parse_tzinfo:
  parses the time zone info part of an ISO 8601 string into a *tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta* does not handle years and months, this module provides a *Duration* class, which can be used almost like a *timedelta* object (with some limitations). However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each *xxx_isoformat* method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by *
*datetime.isoformat*:

* time_isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
* date_isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  *PnnYnnMnnDTnnHnnMnnS*.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  *hh:mm*.
* strftime:
  A re-implementation mostly compatible with Python's *strftime*, but supports only those format strings, which can also be used for dates
prior 1900. This method also understands how to format *datetime* and *Duration* instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or *distribute* available, you can also use *easy_install*.

Limitations:
------------

* The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

1. for date and time together, this parser accepts a mixture of basic and extended format.
   e.g. the date could be in basic format, while the time is accepted in extended format.
   It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
---------------------

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a *setup.py* script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`.

CHANGES
=======

0.6.0 (2017-10-13)
------------------

- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support `:` as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
------------------
- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)
------------------
- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
------------------
- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to totimedelta

0.4.9 (2012-10-30)
------------------
- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
------------------
- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
------------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
------------------
- added Python 3 compatibility via 2to3
0.4.5 (2012-01-06)
--------------
- made setuptools dependency optional

0.4.4 (2011-04-16)
--------------
- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
--------------
- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
--------------
- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
--------------
- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
--------------
- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
--------------
- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
--------------
* time formatting does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

Documentation:
--------------

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
    and vice versa.
  - support other separators between date and time than ‘T’

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? (http://www.w3.org/TR/xmlschema-2/#duration-order)\(\_\_\)
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years ]-inf,+inf[
INFO
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/PKG-INFO
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1.18 babel-template 6.26.0

1.19 constantly 15.1.0-3.ph4

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1.20 core-util-is 1.0.2

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1.21 backbone.marionette 3.4.4

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1.24 chokidar 1.7.0

1.25 asgiref 3.2.3

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1.27 babel-plugin-transform-es2015-arrow-functions 6.22.0

1.28 util-linux 2.35.1

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

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1.31 sudo 1.8.31

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jloup@gzip.org    madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Perseval, 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
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Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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1.32 detect-indent 4.0.0

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1.37 celery 4.3.0

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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
Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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  </xsl:call-template>
</xsl:variable>
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1.43 libevent 2.1.11

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1.45 des.js 1.0.0

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1.47 readdirp 2.1.0

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1.48 home-or-tmp 2.0.0

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1.49 kind-of 4.0.0

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1.50 dhcp 4.4.1

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bd5b6.

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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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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1.52 bzip2 1.0.8

1.53 pickleshare 0.7.4
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1.56 brace 1.8.5

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1.57 open-ldap 2.4.48

1.58 select2 4.0.8

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1.60 requests-ntlm 1.1.0

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1.64 cyrus-sasl 2.1.27

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1.66 cached-property 1.4.3

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1.68 json5 0.5.1

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1.69 preserve 0.2.0

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1.70 gsap 1.20.3

1.71 public-encrypt 4.0.2
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1.73 arr-flatten 1.1.0

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1.74 regjsparser 0.1.5

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1.75 dockerpty 0.4.1

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1.76 python-cached-property 1.4.3

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1.77 responses 0.10.5

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1.78 xlwt 1.3.0

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1.91 stunnel 5.56

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The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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1.92 ansi-styles 3.2.1
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1.93 schema-utils 0.4.7

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1.94 channels 2.3.1

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1.95 openpyxl 2.5.6

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Metadata-Version: 1.2
Name: openpyxl
Version: 2.5.6
Summary: A Python library to read/write Excel 2010 xlsx/xlsm files
Home-page: https://openpyxl.readthedocs.io
Author: See AUTHORS
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Description: .. image:: https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default
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   :alt: coverage status

Introduction
-----------

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltxm files.

It was born from lack of existing library to read/write natively from Python
the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

Mailing List
-----------

The user list can be found on http://groups.google.com/group/openpyxl-users

Sample code::

   from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")

Documentation
-------------
The documentation is at: https://openpyxl.readthedocs.io

* installation methods
* code examples
* instructions for contributing


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2.5.6-PKG-INFO
* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2.5.6/openpyxl.egg-info/PKG-INFO
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* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/setup.py
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1.96 string_decoder 1.1.1
1.96.1 Available under license :
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1.97 docker-cli 19.03.5

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context  formatter.Context
    expected string
}{
    // Errors
    
    
    
    
    
    
    
    
    // Table format
    
    
    
    
    
    
    
    
}
// Errors
{
    context := formatter.Context{Format: "{{InvalidFunction}}"},
    .Template parsing error: template: :1: function "InvalidFunction" not defined
    ,
    },
    
    
    // Table format
    
    
    
    
    
    
    
    
}
// Testing
{
    .NUM          OWNER     PRODUCT ID     EXPIRES         PRICING COMPONENTS
    1             owner1   productid1     2020-01-01 10:00:00 +0000 UTC  compstring
    2             owner2   productid2     2020-01-01 10:00:00 +0000 UTC  compstring
    ,
    },
    
    
    
    
    
    
    
    
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
  ID: "id1",
  Name: "name1",
  ProductID: "productid1",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name: "nodes",
      Value: 10,
    },
    },
  },
  ComponentsString: "compstring",
},
{
  Num: 2,
  Owner: "owner2",
  Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 20,
      },
      },
    },
    ComponentsString: "compstring",
  },
  out := &bytes.Buffer{}
  testcase.context.Output = out
  err := SubscriptionsWrite(testcase.context, subscriptions)
  if err != nil {
    assert.Error(t, err, testcase.expected)
  } else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
  }
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {"owner1", model.Subscription{
      ID: "id1",
      Name: "name1",
      ProductID: "productid1",
      Expires: &expiration,
      PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
          Name: "nodes",
          Value: 10,
        },
      },
      ComponentsString: "compstring",
    },
    {"owner2", model.Subscription{
      ID: "id2",
      Name: "name2",
      ProductID: "productid2",
      Expires: &expiration,
      PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
          Name: "nodes",
          Value: 20,
        },
      },
      ComponentsString: "compstring",
    },
    }
  }
Num:   1,
Owner: "owner1",
Subscription: model.Subscription{
  ID:        "id1",
  Name:      "name1",
  ProductID: "productid1",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 10,
    },
  },
  ComponentsString: "compstring",
},
Num:   2,
Owner: "owner2",
Subscription: model.Subscription{
  ID:        "id2",
  Name:      "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 20,
    },
  },
  ComponentsString: "compstring",
}
}
expectedJSONs := []map[string]interface{}{
{
  "Owner":            "owner1",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id1",
  "Start":            nil,
  "Name":             "name1",
  "Num":              float64(1),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
    },
  },
}
"value": float64(10),
},
",
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(20),
},
",
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
}
}

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "
") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {

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subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
Open Source Used In Cisco Meeting Management 3.3

"github.com/docker/libtrust"
"github.com/docker/licensing/lib/errors"
"github.com/docker/licensing/lib/go-clientlib"
"github.com/docker/licensing/model"

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    return nil, errors.WithStack(err).With(errors.Fields{
    })
key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {

decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": license.KeyID,
    }, "decoding license authorization failed")
}
return decoded, nil

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{
            "token": token, "invalid token"
        })
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{
            "msg": message
        })
    }

    h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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

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// json blob.
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    Expiration time.Time `json:"expiration"`
Token           string    `json:"token"
MaxEngines      int       `json:"maxEngines"
ScanningEnabled bool      `json:"scanningEnabled"
Type            string    `json:"licenseType"
Tier            string    `json:"tier"

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
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        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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package engine

import (  
"time"

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
  {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
  defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
numHeader          = "NUM"
ownerHeader        = "OWNER"
licenseNameHeader  = "NAME"
idHeader           = "ID"
dockerIDHeader     = "DOCKER ID"
productIDHeader    = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader        = "START"
expiresHeader      = "EXPIRES"
stateHeader        = "STATE"
eusaHeader         = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
    }

    // NewSubscriptionsFormat returns a Format for rendering using a license Context
    func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
        switch source {
        case formatter.TableFormatKey:
            if quiet {
                return defaultSubscriptionsQuietFormat
            }
            return defaultSubscriptionsTableFormat
        case formatter.RawFormatKey:
            if quiet {
                return `license: {{.ID}}`
            }
            return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
        return formatter.Format(source)
    }

    // SubscriptionsWrite writes the context
    func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
        render := func(format func(subContext formatter.SubContext) error) error {
            for _, sub := range subs {
                licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
                if err := format(licenseCtx); err != nil {
                    return err
                }
            }
            return nil
        }
        licenseCtx := licenseContext{
        licenseCtx.Header = map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
"ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIdHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
L licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}
func (c *licenseContext) Num() int {
return c.L.Num
}
func (c *licenseContext) Owner() string {
return c.L.Owner
}
func (c *licenseContext) ComponentsString() string {
return c.L.ComponentsString
}
func (c *licenseContext) Summary() string {
return c.L.String()
}
func (c *licenseContext) Name() string {
return c.L.Name
}
func (c *licenseContext) ID() string {
return c.L.ID
}
func (c *licenseContext) DockerID() string {
  return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
  return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
  return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
  return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
  return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
  return c.l.Expires
}

func (c *licenseContext) State() string {
  return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
  return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
  // Dereference the pricing component pointers in the pricing components
  // so it can be rendered properly with the template formatter

  var ret []model.SubscriptionPricingComponent
  for _, spc := range c.l.PricingComponents {
    if spc == nil {
      continue
    }
    ret = append(ret, *spc)
  }
  return ret
}

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1.101 regenerator-transform 0.10.1

1.102 parse-asn1 5.1.1

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1.103 hash-base 3.0.4

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1.116 incremental 17.5.0-2.ph4

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1.124 django 2.1.4

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**Advice for new contributors**

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

**First steps**

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/clia/
   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/clia/faq/
   .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets’ context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been
recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:
FAQ
===

1. "This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?"

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. "I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?"

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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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0.9.0 thru 1.2 1991-1995 CWI yes
1.3 thru 1.5.2 1.2 1995-1999 CNRI yes
1.6 1.5.2 2000 CNRI no
2.0 1.6 2000 BeOpen.com no
1.6.1 1.6 2001 CNRI yes (2)
2.1 2.0+1.6.1 2001 PSF no
2.0.1 2.0+1.6.1 2001 PSF yes
2.1.1 2.1+2.0.1 2001 PSF yes
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1.132 babel-core 6.26.0

1.133 jsonref 0.2

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1.134 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.135 i18next 7.2.3

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1.138 path-is-absolute 1.0.1

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1.139 ipython-genutils 0.2.0

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## 1.141 chalk 2.4.2

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1.160 source-map-support 0.4.18

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1.161 output-file-sync 1.1.2
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1.162 requests-toolbelt 0.8.0
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1.163 supports-color 2.0.0

1.163.1 Available under license:

# supports-color ![Build Status](https://travis-ci.org/chalk/supports-color.svg?branch=master)

> Detect whether a terminal supports color

## Install

````
$ npm install --save supports-color
```

## Usage

```js
var supportsColor = require('supports-color');

if (supportsColor) {
    console.log('Terminal supports color');
}
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

## Related

- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

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1.164 libfastjson 0.99.8
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1.165 globals 9.18.0

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1.166 python-certifi 2019.11.28
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCAertificateFile.#

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1.167 supports-color 5.3.0
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1.168 fdisk 2.35.1

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1.190 babel-plugin-transform-es2015-modules-systemjs 6.24.1

1.191 colorama 0.4.1

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1.192 user-home 1.1.1

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1.193 django-import-export 1.0.1

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1.194 fs-readdir-recursive 1.1.0

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1.195 minimist 0.0.8

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1.196 babel-plugin-transform-es2015-
modules-amd 6.24.1

1.197 nginx 1.17.7

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1.198 zlib 1.2.11

1.198.1 Available under license:

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

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

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).

*/

1.199 babel-plugin-transform-es2015-typeof-symbol 6.23.0
1.200 gojsonreference
e02fc20de94c78484cd5ffb007f8af96be030a45
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1.201 decorator 4.3.0

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1.202 simplegeneric 0.8.1

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Development Status :: 6 - Mature
Development Status :: 7 - Inactive
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Programming Language :: Python
Programming Language :: Python :: 2
Programming Language :: Python :: 2.4
Programming Language :: Python :: 2.5
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Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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1.203 repeat-string 1.6.1

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1.206 runc 1.0.0-rc10

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1.209 babel-plugin-transform-es2015-classes
6.24.1

1.210 coreutils 8.31
1.210.1 Available under license:

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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
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    code for Version 3 as specified in RFC-1305
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37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision
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47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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1.224 lua-cjson 2.1.0

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1.225 os-tmpdir 1.0.2

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1.226 postcss 6.0.21
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1.227 babel-helper-replace-supers 6.24.1
1.228 is-equal-shallow 0.1.3

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1.229 micromatch 2.3.11

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1.230 glob-parent 2.0.0

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1.231 babel-plugin-transform-es2015-block-scoping 6.26.0

1.232 hmac-drbg 1.0.1

1.233 jsonschema 3.0.1

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1.237 backbone-computedfields 0.0.12

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1.238 remove-trailing-separator 1.1

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1.239 chalk 1.1.3

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1.240 babel-helper-optimise-call-expression

6.24.1

1.241 glib 2.62.4

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1.243 django-cors-headers 2.4.0
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1.247 pyhamcrest 1.9.0
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1.251 pbkdf2 3.0.16

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1.252 cssesc 0.1.0

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1.253 prompt-toolkit 3.0.2

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1.255 lua 5.1.5

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1.256 minimalistic-assert 1.0.1

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1.257 rsyslog 8.2006.0

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1.271 six 1.14.0
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

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  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.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 <juanch@yandex-team.ru>
  * Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

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

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

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

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

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

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

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

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

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

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

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

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

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

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.
* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

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

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

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

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

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

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

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

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

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

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

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

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

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package
* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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

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

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

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

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

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

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

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

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

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

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

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

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

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

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

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

1.273 sqlite 3.30.1

1.274 number-is-nan 1.0.1

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1.286 is-number 2.1.0

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1.287 repeat-element 1.1.2

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1.288 lxml 4.4.1

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1.289 python-setuptools 40.2.0.post20210712

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1.290 pyasn1 0.1.9

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1.291 pycparser 2.19

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1.292 babel-helper-call-delegate 6.24.1

1.293 docker-proxy
55685ba49593e67f5e1c8180539379b16736c25e

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1.298 glob 7.1.2

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1.299 zope-interface 4.6.0
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1.301 babel-messages 6.23.0

1.302 libsodium 1.0.18

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1.303 linux-headers 4.9.107

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3.5.0.1

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1.305 iptables 1.8.3

1.306 service-identity 18.1.0

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1.309 procps 3.3.15

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1.329 babel-plugin-transform-strict-mode
6.24.1

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1.331 et-xmlfile 1.0.1

1.332 docker-engine 19.03.5
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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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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## API

### Parsing

```javascript
URL.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
```
// host : "example.com",
// port : 123,
// path : "/one/two.three",
// query : "q1=a1&q2=a2",
// fragment : "body"
//}

### Serializing

URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"

### Resolving

URI.resolve("uri://a/b/c/d?q", "./../g") === "uri://a/g"

### Normalizing

URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"

### Comparison

URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/./b/%63/%7bfoo%7d") === true

### IP Support

//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"

//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"

//IPv6 zone identifier support
URI.parse("//[2001:db8::7%en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}

### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ro\"s\")]) === "http://xn--exampl-gva.org/ro\%C3\%A9"

//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ro\%C3\%A9"), {iri:true}) === "http://exampl.org/ro"

### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more
of the following properties:

* `scheme` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

* `reference` (string)

If set to "suffix", it indicates that the URI is in the suffix format, and the validator will use the option's `scheme` property to determine the URI's scheme.

* `tolerant` (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

* `absolutePath` (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

* `iri` (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `unicodeSupport` (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `domainHost` (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

## Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

* `http` ![RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)
* `https` ![RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)
* `mailto` ![RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)
* `urn` ![RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)
* `urn:uuid` ![RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)

### HTTP Support

URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
### Mailto Support

```javascript
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
//scheme : "mailto",
//to : ["alpha@example.com", "bravo@example.com"],
//subject : "SUBSCRIBE",
//body : "Sign me up!"
//}

URI.serialize(
    {
        scheme : "mailto",
        to : ["alpha@example.com"],
        subject : "REMOVE",
        body : "Please remove me",
        headers : {
            cc : "charlie@example.com"
        }
    }) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

### URN Support

```javascript
URI.parse("urn:example:foo");
//returns:
//{
//scheme : "urn",
//nid : "example",
//nss : "foo",
//}
```

### URN UUID Support

```javascript
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
//scheme : "urn",
//nid : "example",
//uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
```

## Usage

To load in a browser, use the following tag:

```html
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```
To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```javascript
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```javascript
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```javascript
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

### Breaking changes

#### Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

#### Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

#### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md
No license file was found, but licenses were detected in source scan.

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merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$
= \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ =
merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ =
\"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\.\\\\_\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) +
\"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[05]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[19]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(
subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //
6(
h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$ = subexp(
\"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\")
+ \"{5}\" + LS32$), //
\"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[
h16 ] \"::\" 4( h16 \":\" )
ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" +
subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" +
LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +
H16$ + \"\\\\:\"
+ LS32$), //[ *3( h16 \":\" ) h16 ] \"::\" h16
\":\" ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"
+ LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
ls32\n\t\tIPV6ADDRESS8$ =
subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
+ H16$ ), //[ *5( h16
\":\" ) h16 ] \"::\"
h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,6}\" + H16$)
+ \"?\\\\:\\\\:\"
), //[ *6( h16 \":\" ) h16 ] \"::\"\n\t\tIPV6ADDRESS$ =
subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) + \"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + ZONEID$), //RFC 6874, with
relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"), //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"*\"),\n\t\tHOST$ =
subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +

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regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators =
/[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow':
'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code
point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*-------------------------------------------------------------------------*/\n\n/**\n * A generic error utility function.\n * @private\n * @param
{String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n
*/\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility
function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--)
{\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to
work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain
name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n *
@returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction
mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email
addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`)
intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See
#17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded =
map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code
points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will
convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code
point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see
<https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n *
@param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n
*/\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile
(counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=
0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low
surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an
unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a
surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else
{\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n
*/\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code
point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers)
in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit =
function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 <
0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n
* @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The
basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n *
`0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior
is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit,
flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n *

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const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  let delta = firstTime ? floor(delta / damp) : delta >> 1;
  delta += floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    let delta = floor(delta / baseMinusTMin);
    return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
  }
}

/**
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
  // Don't use UCS-2, convert output into []

  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;

  // Handle the basic code points: let 'basic' be the number of input code points before the last delimiter, or '0' if there is none, then copy output the first basic code points to the output.

  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }

  for (let j = 0; j < basic; ++j) {
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.

  let oldi = i;
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    // `index` is the index of the next character to be consumed.
    // Decode a generalized variable-length integer into `delta`, which gets which gets added to `i`.

    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        error('invalid-input');
      }

      const digit = basicToDigit(input.charCodeAt(index++));

      if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
      }

      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      const baseMinusT = base - t;
      const out = output.length + 1;
      bias = adapt(i - oldi, out, oldi == 0);
      // `i` was supposed to wrap around from `out` to `0`, incrementing `n` each time, so we'll fix that now:
      if (floor(i / out) > maxInt - n) {
        error('overflow');
      }
      n += floor(i / out);
      i %= out;
    }

    output.push(output.splice(i++, 0, n));
  }

  return String.fromCodePoint(...output);
};

/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const encode = function(input) {
  const output = [];

  // Convert the input in UCS-2 to an array of Unicode code points.
  input = ucs2decode(input);

  // Initialize the state.
  let n = initialN;
  let delta = initialBias;

  // Handle the basic code points.

  for (const currentValue of input) {
    if (currentValue < 0x80) {
      output.push(stringFromCharCode(currentValue));
    }
  }

  let basicLength = output.length;
  let handledCPCount = basicLength;

  // Finish the basic string with a delimiter unless it's empty.

  if (basicLength) {
    output.push(delimiter);
  }

  // Main encoding loop:

  while (handledCPCount < inputLength) {
    // All non-basic code points < n have been handled already. Find the next one:
    let m = maxInt;
    for (const currentValue of input) {
      if (currentValue >= n && currentValue < m) {
        m = currentValue;
      }
    }

    // Increase 'delta' enough to advance the decoder's 'n,i' state to <m,0>:
    if (m > floor((maxInt - delta) / handledCPCountPlusOne)) {
      error('overflow');
    }

    n = m;
    delta += (m - n) * handledCPCountPlusOne;
    output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
  }

  return String.fromCodePoint(...output);
};
Converting a Punycode string representing a domain name or an email address to Unicode. Only the Punyencoded parts of the input will be converted, i.e. \n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n
    @memberOf punycode\n    @param {String} input The Punyencoded domain name or\n    email address to \n * convert to Unicode.\n
    The Unicode representation of the given Punycode\n
    string.\n
    const toUnicode = function(input) {\n      return mapDomain(input, function(string) {\n        return regexPunycode.test(string)\n          ? decode(string.slice(4).toLowerCase())\n          : string;\n      });\n    };\n
    /**\n     * Converts a Unicode string representing a domain name or an email address to\n     * Punycode. Only the non-ASCII\n     * parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in\n     * ASCII\n     * @memberOf punycode\n     * @param {String} input The domain name or email address to convert, as a\n     * Unicode string.\n     *
     * @returns {String} The Punycode representation of the given domain name or\n     * email address.\n
    toASCII = function(input) {\n      return mapDomain(input, function(string) {\n        return regexNonASCII.test(string)\n          ? 'xn--' + encode(string)\n          : string;\n      });\n    };\n
    const punycode = {\n      /**\n       * A string\n       * representing the current Punycode.js version number.\n       * @memberOf punycode\n       * @type String\n       */\n      version: '2.1.0',\n      /**\n       * An object of methods to convert from JavaScript's internal character\n       * representation (UCS-2) to Unicode points, and back.\n       * @see <https://mathiasbynens.be/notes/javascript-encoding>\n       */\n      ucs2: {\n        encode: ucs2encode,\n        decode: ucs2decode,\n      },\n      decode: decode,\n      encode: encode,\n      toASCII: toASCII,\n      toUnicode: toUnicode,\n    };\n
    export default punycode;
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,\n
options:Options):Components;\n\tserialize(components:Components,\n
options:Options):ParentComponents;\n\n\n}

export interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\nPCT_ENCODED : RegExp,\n\nIPv4ADDRESS : RegExp,\n\n\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};

export function pctEncChar(chr:string):string {\n	const c = chr.charCodeAt(0);
	let e:string;

	if (c < 16) e = "%0" + c.toString(16).toUpperCase();
	else if (c < 2048) e = "%%" + (c >> 6) + (c & 63).toString(16).toUpperCase();

	return e;
}

function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n	function decodeUnreserved(str:string):string {\n		const decStr = pctDecChars(str);
		return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
	}

	if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "");
	if (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_PATH, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

	return components;
};

function _stripLeadingZeros(str:string):string {\n	return str.replace(/^0*(.*)/, "$1") || "0";
}

function _normalizeIPv4(host:string, protocol:URIRegExps):string {\n	const matches = host.match(protocol.IPV4ADDRESS) || [];
	const [, address] = matches;
	
	if (address) {\n		return address.split(".").map(_stripLeadingZeros).join(".");
	} else {\n		return host.trim().toLowerCase();
	}
}

function _normalizeIPv6(host:string, protocol:URIRegExps):string {\n	const matches = host.match(protocol.IPV6ADDRESS) || [];
	const [, address] = matches;
	
	if (address) {\n		return address.split("\":\"`).map(_stripLeadingZeros).join("\":\"");
	} else {\n		return host.trim().toLowerCase();
	}
}
URI_PROTOCOL);\n\n```javascript

URI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\nURI can not be parsed.\n```
// normalize base components

\n
\n
normalize base components

options = options || {};

if (!options.tolerant && relative.scheme) {

target.scheme = relative.scheme;

target.authority = relative.authority;

targetuserinfo = relative.userinfo;

targethost = relative.host;

target.port = relative.port;

target.path = removeDotSegments(relative.path || "\n");

target.query = relative.query;

target.fragment = relative.fragment;

return target;
};

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
	schemelessOptions = assign({ scheme : 'null' }, options);

return serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);
};

export function normalize(uri:string, options?:URIOptions):string;
export function normalize(uri:URIComponents, options?:URIOptions):URIComponents;
export function normalize(uri:any, options?:URIOptions):any {
	if (typeof uri === "string") {
		uri = serialize(parse(uri, options), options);
	}

if (typeof uri === "object") {
	uri = serialize(<URIComponents>uri, options);
	}

return uri;
};

export function equal(uriA:string, uriB:string, options?: URIOptions):boolean;
export function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;
export function equal(uriA:any, uriB:any, options?:URIOptions):boolean {
	if (typeof uriA === "string") {
		uriA = serialize(parse(uriA, options), options);
	}

if (typeof uriB === "string") {
		uriB = serialize(parse(uriB, options), options);
	}

return uriA === uriB;
};

export function escapeComponent(str:string, options?:URIOptions):string {
	return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);
};

export function unescapeComponent(str:string, options?:URIOptions):string {
	return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);
};
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Open Source Used in Cisco Meeting Management 3.3 1503

```javascript

to ASCII via punycode: "\^ + e;\u00d1\u00df\u00f1\u00f3\u00f5\u00f7\u00f9 else \u00f1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7\u00f9\u00f1\u00d1\u00f3\u00f5\u00f7�
matches[1].toLowerCase(); const nss = matches[2];

const urnScheme = `{scheme}:${options.nid || nid}`;

const schemeHandler = SCHEMES[urnScheme];

const turnComponents = new turnComponents(path = undefined);

if (schemeHandler)

  urnComponents.nid = urnComponents.nid;
  urnComponents.nss = nss;

else if (urnComponents.error)

  return

urnComponents;

}

return

urnComponents;

}

export default handler;
function (components:URNComponents, options:URNOptions):URNComponents {
  const matches = components.path && components.path.match(URN_PARSE);
  let urnComponents = components as URNComponents;

  if (matches) {
    const scheme = options.scheme || urnComponents.scheme || "urn";
    const nid = matches[1].toLowerCase();
    const nss = matches[2];
    const urnScheme = `${scheme}:${options.nid || nid}`;
    const schemeHandler = SCHEMES[urnScheme];

    urnComponents.nid = nid;
    urnComponents.nss = nss;
    urnComponents.path = undefined;
    if (schemeHandler) {
      urnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;
    }
  } else {
    urnComponents.error = urnComponents.error || "URN can not be parsed.";
  }

  return urnComponents;
},

serialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {
  const scheme = options.scheme || urnComponents.scheme || "urn";
  const nid = urnComponents.nid;
  const urnScheme = `${scheme}:${options.nid || nid}`;
  const schemeHandler = SCHEMES[urnScheme];

  if (schemeHandler) {
    urnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;
  }

  const uriComponents = urnComponents as URIComponents;
  const nss = urnComponents.nss;
  uriComponents.path = `${nid || options.nid}:${nss}`;

  return uriComponents;
},
};

export default handler;
options).toLowerCase();\n\t\t\t}\n\n\t\t\tto[x] = addr.join(\"@\");\n\t\t}\n\n\t\treturn
mailtoComponents;\n\t},\n\n\tserialize : function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst
to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\tconst
toAddr = String(to[x]);\n\t\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\t\tconst localPart = (toAddr.slice(0,
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet domain = toAddr.slice(atIdx +
1);\n\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\tdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t}\n\n\t\t\t\tto[x] = localPart + \"@\" +
domain;\n\t\t\t}\n\n\t\t\tcomponents.path = to.join(\",\");\n\t\t}\n\n\t\tconst headers = mailtoComponents.headers =
mailtoComponents.headers || {};\n\n\t\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\tfor (const name in headers) {\n\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\tfields.push(\n\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\"=\"
+\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t\t);\n\t\t\t}\n\t\t}\n\t\tif (fields.length)
{\n\t\t\tcomponents.query = fields.join(\"&\");\n\t\t}\n\n\t\treturn components;\n\t}\n}\n\nexport default
handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from
\"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse
: http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme :
\"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host)
{\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\t\treturn
components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents
{\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !==
\"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the
empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query
strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not
the HTTP spec.\n\n\t\treturn components;\n\t}\n};\n\nexport default handler;","/**\n * URI.js\n *\n * @fileoverview
An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author
<a href=\"mailto:gary.court@gmail.com\">Gary Court</a>\n * @see http://github.com/garycourt/uri-js\n
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LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n *
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* ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

import URI_PROTOCOL from './regexps-uri';
import IRI_PROTOCOL from './regexps-iri';
import punycode from 'punycode';
import {
  toUpperCase, typeOf, assign } from './util';

export interface URIComponents {
	scheme?:string;
	userinfo?:string;
	host?:string;
	port?:number|string;
	path?:string;
	query?:string;
	fragment?:string;
	namespace interface URIOptions {
	scheme?:string;
	reference?:string;
tolerant?:boolean;
	absolutepath?:boolean;
	iri?:boolean;
	unicodeSupport?:boolean;

domainHost?:boolean;
}

export interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents> {
	scheme:string;
	parse(components:ParentComponents, options:Options):Components;
	serialize(components:Components, options:Options):ParentComponents;
}

export interface URIRegExps {
	NOT_SCHEME : RegExp,
	NOT_USERINFO : RegExp,
	NOT_HOST : RegExp,
	NOT_PATH : RegExp,
	NOT_PATH_NOSCHEME : RegExp,
	NOT_QUERY : RegExp,
	NOT_FRAGMENT : RegExp,
	ESCAPE : RegExp,
	UNRESERVED : RegExp,
	OTHER_CHARS : RegExp,
	PCT_ENCODED : RegExp,
	IPV4ADDRESS : RegExp,
	IPV6ADDRESS : RegExp,
}

export const SCHEMES:{[scheme:string]:URISchemeHandler} = {};

export function pctEncChar(chr:string):string {
	const c = chr.charCodeAt(0);
	let e:string;

	if (c < 16) e = "%0" + c.toString(16).toUpperCase();
	else if (c < 128) e = "%" + c.toString(16).toUpperCase();
	else if (c < 2048) e = "%" + ((c >> 6) | 192).toString(16).toUpperCase();
	else e = "\%" + ((c >> 12) | 224).toString(16).toUpperCase();

	return e;
}

export function pctDecChars(str:string):string {
	let newStr = "";
	let i = 0;
	const il = str.length;
	while (i < il) {
		const c = parseInt(str.substr(i + 1, 2), 16);
		if (c < 128) {
			newStr += String.fromCharCode(c);
			i += 3;
		}
		else {
			newStr += String.fromCharCode((c & 31) << 6) | (c2 & 63);
			i += 6;
		}
	}

	return newStr;
}

function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
	scheme = components.scheme.replace(protocol.PCT_ENCODED, components.scheme.replace(protocol.NOT_SCHEME, "\%\%" + c.toString(16).toUpperCase()));
	userinfo = components.userinfo.replace(protocol.PCT_ENCODED, components.userinfo.replace(protocol.NOT_USERINFO, pctEncChar).toUpperCase());
	host = components.host.replace(protocol.PCT_ENCODED, components.host.replace(protocol.NOT_HOST, pctEncChar).toUpperCase());
	path = components.path.replace(protocol.PCT_ENCODED, components.path.replace(protocol.NOT_PATH, pctEncChar).toUpperCase());
	query = components.query.replace(protocol.PCT_ENCODED, components.query.replace(protocol.NOT_QUERY, pctEncChar).toUpperCase());
	scheme = components.scheme.replace(protocol.PCT_ENCODED, components.scheme.replace(protocol.NOT_SCHEME, "\%\%" + c.toString(16).toUpperCase()));
	userinfo = components.userinfo.replace(protocol.PCT_ENCODED, components.userinfo.replace(protocol.NOT_USERINFO, pctEncChar).toUpperCase());
	host = components.host.replace(protocol.PCT_ENCODED, components.host.replace(protocol.NOT_HOST, pctEncChar).toUpperCase());
	path = components.path.replace(protocol.PCT_ENCODED, components.path.replace(protocol.NOT_PATH, pctEncChar).toUpperCase());
	query = components.query.replace(protocol.PCT_ENCODED, components.query.replace(protocol.NOT_QUERY, pctEncChar).toUpperCase());
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

function stripLeadingZeros(str:string):string {
  return str.replace(/^0*(.*)/, "$1") || "0";
}

function normalizeIPv4(host:string, protocol:URIRegExps):string {
  const matches = host.match(protocol.IPV4ADDRESS) || [];
  const [address, zone] = matches.map(stripLeadingZeros).join(\".\") || [host, host] || ["", ""];
  return zone ? address + "%" + zone : address;
}

function normalizeIPv6(host:string, protocol:URIRegExps):string {
  const matches = host.match(protocol.IPV6ADDRESS) || [];
  const [first, last] = matches.map(stripLeadingZeros).join(\".\") || [host, host] || ["", ""];
  return zone ? first + "%" + zone : first;
}

const URI_PARSE = /^(?:(\[^:\/?#]+):)?(?:\/\/((?:(\[^\/?#@]*)@)?(\[[^\/?#\]\]+|[^\/?#:]*)(?:\:(\d*))?))?([^?#]*)(?:\?(.*)|$)/i;

export function parse(uriString:string, options:URIOptions = {}):URIComponents {
  const components:URIComponents = {};
  const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);

  if (options.reference === "suffix") uriString = (options.scheme ? options.scheme + ":" : ")//" + uriString;

  const matches = uriString.match(URI_PARSE);

  if (matches) {
    if (NO_MATCH_IS_UNDEFINED) {
      components.scheme = matches[1] || undefined;
      components.userinfo = (uriString.indexOf("@") !== -1 ? matches[3] : undefined);
      components.host = (uriString.indexOf("//") !== -1 ? matches[4] : undefined);
      components.port = parseInt(matches[5], 10);
      components.path = matches[6] || "";
      components.fragment = matches[8];
    } else if (IEFIX) {
      components.scheme = matches[1] || undefined;
      components.userinfo = (uriString.indexOf("@") !== -1 ? matches[3] : undefined);
      components.host = (uriString.indexOf("//") !== -1 ? matches[4] : undefined);
      components.path = matches[5] || undefined;
      components.query = (uriString.indexOf("?")) && matches[6] || undefined;
      components.fragment = (uriString.indexOf("\"\") )
    }
  } else {
    components.scheme = matches[1] || undefined;
    components.userinfo = (uriString.indexOf("@") !== -1 ? matches[3] : undefined);
    components.host = (uriString.indexOf("//") !== -1 ? matches[4] : undefined);
    components.path = matches[5] || undefined;
    components.query = (uriString.indexOf("?")) && matches[6] || undefined;
    components.fragment = (uriString.indexOf("\"\") )
  }

  if (components.scheme) {
    components.scheme = normalizeIPv4(components.scheme, protocol);
    components.scheme = normalizeIPv6(components.scheme, protocol);
    components.scheme = determineReferenceType(components.scheme, protocol);
  } else if (components.scheme) {
    components.scheme = "relative";
  } else if (components.scheme) {
    components.scheme = "absolute";
  } else if (components.scheme) {
    components.scheme = "same-document";
  } else if (components.scheme) {
    components.scheme = "current-document";
  }

  if (components.scheme) {
    components.scheme = normalizeIPv4(components.scheme, protocol);
    components.scheme = normalizeIPv6(components.scheme, protocol);
    components.scheme = determineReferenceType(components.scheme, protocol);
  } else if (components.scheme) {
    components.scheme = "relative";
  } else if (components.scheme) {
    components.scheme = "absolute";
  } else if (components.scheme) {
    components.scheme = "same-document";
  } else if (components.scheme) {
    components.scheme = "current-document";
  }

  return components;
}
```javascript
(function (components, options) {
    const schemeHandler = SCHEMES[options.scheme]
    if (schemeHandler) {
        schemeHandler(components, options); // perform scheme specific parsing
        if (options.reference === "suffix") {
            components.error = components.error || "Reference is not a " + options.scheme + " reference."
        }
    }
    // normalize component encoding
    _normalizeComponentEncoding(components, protocol);
    // perform scheme specific parsing
    if (schemeHandler && schemeHandler.parse) {
        schemeHandler.parse(components, options);
    }
    return components;
});

function _recomposeAuthority(components, options) {
    const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens = [];
    if (components.userinfo !== undefined) {
        uriTokens.push(components.userinfo);
        uriTokens.push("@");
    }
    if (components.host !== undefined) {
        // normalize IP hosts, add brackets and escape zone separator for IPv6
        uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => "[" + $1 + ($2 ? "%25" + $2 : "") + "]"));
    }
    if (typeof components.port === "number") {
        uriTokens.push(":");
        uriTokens.push(components.port.toString(10));
    }
    const authority = _recomposeAuthority(components, options);
    if (authority !== undefined) {
        if (options.reference !== "suffix" && components.scheme) {
            uriTokens.push(components.scheme);
            uriTokens.push(":");
        }
        return uriTokens.join("\n");
    }
}
```

(RDS1 = /^\.\.?\//;
RDS2 = /^\/\.(\/|$)/;
RDS3 = /^\/\.\.(\/|$)/;
RDS4 = /^\.\.?$/;
RDS5 = /^\/?(?:.|\n)*?(?=\/|$)/;

export function removeDotSegments(input) {
    const output = [];
    while (input.length) {
        if (input.match(RDS1)) {
            input = input.replace(RDS1, "\n");
        } else if (input.match(RDS2)) {
            input = input.replace(RDS2, "/\n");
        } else if (input.match(RDS3)) {
            input = input.replace(RDS3, "/\n");
        } else if (input === "." || input === "..") {
            input = "\n";
        } else {
            const im = input.match(RDS5);
            if (im) {
                const s = im[0];
                input = input.slice(s.length).
            } else {
                throw new Error("Unexpected dot segment condition.\n");
            }
        }
    }
    return output.join("\n");
}

export function serialize(components, options = {}) {
    const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens = [];
    // find scheme handler
    const schemeHandler = SCHEMES[options.scheme]
    if (schemeHandler) {
        schemeHandler(components, options);
    }
    if (components.host) {
        // if host component is an IPv6 address
        if (protocol.IPV6ADDRESS.test(components.host)) {
            // normalize IPv6 host
            try {
                components.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());
            } catch (e) {
                components.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;
            }
        } else {
            // convert IDN via punycode
            try {
                components.host = punycode.toUnicode(components.host);
            } catch (e) {
                components.error = components.error || "Host's domain name can not be converted to Unicode via punycode: " + e;
            }
        }
    }
    // normalize encoding
    _normalizeComponentEncoding(components, protocol);
    // perform scheme specific parsing
    if (schemeHandler && schemeHandler.parse) {
        schemeHandler.parse(components, options);
    }
    return uriTokens.join("\n");
};
```
flag) {
    // 0..25 map to ASCII a..z or A..Z
    // 26..35 map to ASCII 0..9
    return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};

/**
 * Bias adaptation function as per section 3.4 of RFC 3492.
 * https://tools.ietf.org/html/rfc3492#section-3.4
 * @private
 */
const adapt = function(delta, numPoints, firstTime) {
    let k = 0;
    delta = firstTime ? floor(delta / damp) : delta >> 1;
    delta += floor(delta / numPoints);
    for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
        delta = floor(delta / baseMinusTMin);
    }
    return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};

/**
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
    const output = [];
    const inputLength = input.length;
    let i = 0;
    let n = initialN;

    // Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy
    for (let j = 0; j < basic; ++j) {
        output.push(input.charCodeAt(j));
    }

    // Main decoding loop:
    while (handledCPCount < inputLength) {
        // Find the next non-basic code point:
        let m = maxInt;
        for (let currentValue of input) {
            if (currentValue >= n && currentValue < m) {
                m = currentValue;
            }
        }

        // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>:
        // but guard against overflow.
        const handledCPCountPlusOne = handledCPCount + 1;
        if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
            error('overflow');
        }
        delta += (m - n) * handledCPCountPlusOne;
        n = m;
    }

    return String.fromCharCode(...output);
};

/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const encode = function(input) {
    const output = [];
    const inputLength = input.length;
    let n = initialN;
    let delta = 0;
    let bias = initialBias;

    // Handle the basic code points.
    for (const currentValue of input) {
        if (currentValue < 0x80) {
            output.push(stringFromCharCode(currentValue));
        }
    }

    let handledCPCount = output.length;

    // Main encoding loop:
    while (handledCPCount < inputLength) {
        // Find the next non-basic code point:
        let m = maxInt;
        for (const currentValue of input) {
            if (currentValue >= n && currentValue < m) {
                m = currentValue;
            }
        }

        // Advance the decoder's <n,i> state to <m,0>:
        // but guard against overflow.
        const handledCPCountPlusOne = handledCPCount + 1;
        if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
            error('overflow');
        }
        delta += (m - n) * handledCPCountPlusOne;
        n = m;
    }

    return String.fromCharCode(...output);
};
```javascript
/**
 * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycode parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycode domain name or\n * email address to\n * convert to Unicode\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nfunction toUnicode(input) {\n    return mapDomain(input, function(string) {\n        return regexPunycode.test(string)\n            ? decode(string.slice(4).toLowerCase())\n            : string;\n    });\n}

/**
 * Converts a Unicode string representing a domain name or an email address\n * to Punycode. Only the non-ASCII\n * parts of the domain name will be converted, i.e. it doesn't matter if you\n * call it with a domain that's already in\n * ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nfunction toASCII(input) {\n    return mapDomain(input, function(string) {\n        return regexNonASCII.test(string)\n            ? 'xn--' + encode(string)\n            : string;\n    });\n}

/*-----------------------------------\n---------------------------------------*/

/** Define the public API */\nconst punycode = {
    /**\n     * A string\n     * representing the current Punycode.js version number.\n     * @memberOf punycode\n     * @type String\n     */\n    'version': '2.1.0',
    /**\n     * An object of methods to convert from JavaScript's internal character\n     * representation (UCS-2) to Unicode code points, and back.\n     * @see <https://mathiasbynens.be/notes/javascript-encoding>\n     * @memberOf punycode\n     * @type Object\n     */
    'ucs2': {
        'decode': ucs2decode,
        'encode': ucs2encode
    },
    'decode': decode,
    'encode': encode,
    'toASCII': toASCII,
    'toUnicode': toUnicode
};

export default punycode;
```

```javascript
import { URIRegExps } from "./uri";
import { buildExps } from "./regexps-uri";

export default buildExps(true);
```

```javascript
import { URIRegExps } from "./uri";
import { merge, subexp } from "./util";

export function buildExps(isIRI:boolean):URIRegExps {
    const
        ALPHA$$ = "[A-Za-z]",
        CR$$ = "[\x0D]",
        DIGIT$$ = "[0-9]",
        DQUOTE$$ = "[\x22]",
        HEXDIG$$ = merge(DIGIT$$, "[A-Fa-f]"),  //case-insensitive
        LF$$ = "[\x0A]",
        SP$$ = "[\x20]",
        PCT_ENCODED$ = subexp(subexp("%[EFef]" + HEXDIG$$ + "%" + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$) + "|" + subexp("%[89A-Fa-f]" + HEXDIG$$ + "%" + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$) + "|" + subexp("%" + HEXDIG$$ + HEXDIG$$),  //relaxed parsing rules
        //expanded
    const GEN_DELIM$$ = "[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\n`````
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';

const packageJson = require('./package.json');

export default {
entry: "dist/esnext/index.js",
format: "umd",
moduleName: "URI",
plugins: [
  resolve({
    module: true,
    jsnext: true,
    preferBuiltins: false
  })],

babel({
  "presets": [
    ["latest", {
      "es2015": {
        "modules": false
      }
    }]
  ],
  "plugins": ["external-helpers"],
  "externalHelpers": false
},
],
dest: "dist/es5/uri.all.js",
sourceMap: true,
banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */"
})

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

**1.335 emojis-list 2.1.0**

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1.336 plotly-js-basic-dist 1.44.1

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1.337 babel-plugin-transform-es2015-literals 6.22.0

1.338 squashfs-tools 4.4

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1.339 inherits 2.0.3
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1.340 has-ansi 2.0.0

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# has-ansi [!Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

```javascript
## Install

```$ npm install --save has-ansi```

```javascript
## Usage

```js
var hasAnsi = require('has-ansi');

hasAnsi('u001b[4mcake\u001b[0m');
//=> true

hasAnsi('cake');
//=> false
```

## Related
## License

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### 1.341 js-tokens 3.0.2

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### 1.342 pexpect 4.6.0-3.ph3

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1.345 pcre 8.44

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---------

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

THE BASIC LIBRARY FUNCTIONS

---------------------------
PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

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Email local part: hzmester
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STACK-LESS JUST-IN-TIME COMPILER
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THE C++ WRAPPER FUNCTIONS
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1.346 backgrid 0.3.8

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## Contributions to the urllib3 project

### Creator & Maintainer

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### Contributors

In chronological order:

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

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

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

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

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

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

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

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

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

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

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

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

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

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

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture
* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.350 wsaccel 0.6.2

1.351 css-selector-tokenizer 0.7.1

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1.354 python-setuptools 41.2.0

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1.355 babel-types 6.26.0

1.356 micro 2.3.11

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1.357 fs.realpath 1.0.0
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1.358 docker 4.1.0

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1.359 rfc3987 1.3.7

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Version 3, 29 June 2007

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1.365 postcss-modules-values 1.3.0

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1.366 pyasn1 0.4.4-1.ph3
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ASN.1 library for Python
------------------------
[PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)(https://pypi.org/project/pyasn1)
[Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)(https://pypi.org/project/pyasn1/)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------
* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.
The `pyasn1` package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With `pyasn1` you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in `pyasn1` like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0)) ),
        DefaultedNamedType('house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1)) ),
    )
```  

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321

```}

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD license([http://snmplabs.com/pyasn1/license.html](http://snmplabs.com/pyasn1/license.html)). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow([https://stackoverflow.com/questions/ask](https://stackoverflow.com/questions/ask)) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4.1-tar-gz/pyasn1-0.4.4/README.md
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License
=======

.. include:: ../../LICENSE.rst

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/codec/native/decoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/codec/native/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/codec/ber/test__main__.py
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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/compat/test_integer.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/compat/test_octets.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/tests/codec/ber/test_encoder.py
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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/compat/test_string.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/compat/test_string.py
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ASN.1 library for Python
========================

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   /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/tests/codec/ber/encoder.py
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics `<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case
Download & Install

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License

The PyASN1 software is distributed under 2-clause BSD License.

Getting help


Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>` by
Olivier Dubuisson


Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


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* `/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst`

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1.371 babel-preset-es2015 6.24.1

1.372 jdcal 1.4

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1.373 traitlets 4.3.2

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1.375 odfpy 1.3.6

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1.380 babel-plugin-check-es2015-constants

6.22.0

1.381 arr-diff 2.0.0

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1.382 big.js 5.2.2

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1.387 libvmtools 10.3.5.7752

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.388 babel-cli 6.26.0

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1.393 netcat 0.7.1

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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* M. Welsh, 6 July 1996
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1.407 babel-plugin-transform-es2015-shorthand-properties 6.24.1

1.408 ifupdown 0.8.16

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**1.410 readable-stream 2.3.6**

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1.412 filename-regex 2.0.1
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1.414 moment-duration-format 2.2.2

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1.415 source-list-map 2.0.1

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1.416 babel-runtime 6.26.0

1.417 bash 5.0.16

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1.427 babel-plugin-transform-regenerator
6.26.0

1.428 open-vm-tools 10.3.5-10430147
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>>> freebsd-base64-4.8
>>> unicode-5.0

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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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1.429 packaging 16.8-4.ph2

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1.430 django-bulk-update 1.1.10

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1.432 fastclick 1.0.6

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1.433 regexpu-core 1.0.0

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1.434 ajv-keywords 3.4.0

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1.435 regenerator-runtime 0.10.5

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1.436 async-timeout 3.0.0

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1.439 babel-polyfill 6.26.0

1.440 ms 2.0.0

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**1.441 browserify-des 1.0.2**

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**1.442 babel-helper-hoist-variables 6.24.1**

**1.443 babel-plugin-transform-es2015-destructuring 6.23.0**

**1.444 chardet 3.0.4-2.ph4**

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