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Text Part Number: 78EE117C99-1046155409
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1.4 backbone-paginator 2.0.6

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

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

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

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1.6 supports-color 5.3.0

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1.7 miller-rabin 4.0.1
1.8 python-certifi 2018.1.18
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.9 simplegeneric 0.8.1
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1.46 hmac-drbg 1.0.1

1.47 plotly-js-basic-dist 1.44.1
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1.48 backgrid-filter 0.3.7

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1.49 webcolors 1.7

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1.50 incremental 16.10.1

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1.51 backcall 0.1.0

1.52 arr-flatten 1.1.0

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1.54 babel-traverse 6.26.0

1.55 python-requests 2.11.1
1.55.1 Available under license:
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1.57 v8flags 2.1.1
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1.58 stunnel 5.44

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1.63 sudo 1.8.21

1.63.1 Available under license :

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pietje
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
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Sendn, Abel
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1.64 glob-parent 2.0.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> icu4c-4.4.1

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1.80 rsyslog 8.22.0

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1.86 cryptography 2.6.1

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1.87 path-is-absolute 1.0.1

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1.90 pycparser 2.18

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1.91 asn1.js 2.0.19

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1.92 babel-helper-replace-supers 6.24.1

1.93 preserve 0.2.0

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1.96 babel-plugin-transform-es2015-literals
6.22.0

1.97 websocket-client 0.40.0

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1.106 websocket-client 0.47.0

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1.108 chalk 1.1.3

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1.109 repeat-string 1.6.1

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1.110 set-immediate-shim 1.0.1

1.111 sqlite 3.21.0

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1.113 ansi-styles 3.2.1
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1.115 fast-deep-equal 2.0.1

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1.116 dhcp 4.3.6

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.117 object.assign 4.1.1

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1.122 busybox 1.27.2

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1.142 hash.js 1.1.5

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1.143 bzip2 1.0.6

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1.144 fill-range 2.2.3

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1.146 json-schema-traverse 0.4.1

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1.147 python-dockerpty 0.4.1
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1.150 ipython-genutils 0.2.0

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1.163 lvm2 2.02.173

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1.178 python 3.6.10

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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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<td>BeOpen.com</td>
<td>no</td>
</tr>
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<td>1.6.1</td>
<td>1.6</td>
<td>2001</td>
<td>CNRI</td>
<td>yes (2)</td>
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<td>PSF</td>
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2.0.1     2.0+1.6.1   2001     PSF     yes
2.1.1     2.1+2.0.1   2001     PSF     yes
2.1.2     2.1.1       2002     PSF     yes
2.1.3     2.1.2       2002     PSF     yes
2.2 and above  2.1.1     2001-now  PSF     yes

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1.179 babel-plugin-check-es2015-constants
6.22.0

1.180 pyparsing 2.1.10
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1.181 regenerator-runtime 0.11.1

1.182 minimalistic-assert 1.0.1
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1.184 babel-helper-call-delegate 6.24.1

1.185 python-cached-property 1.3.0

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1.186 readline 7.0

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1.197 has-ansi 2.0.0
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## Install

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

## Usage

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

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

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

## Related
- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.209 postcss-modules-local-by-default 1.2.0

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1.210 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.211 babel-generator 6.26.1

1.212 net-tools
479bb4a7e11a4084e2935c0a576388f92469225b
1.212.1 Available under license:

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1.215 supports-color 2.0.0

1.215.1 Available under license:

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

> Detect whether a terminal supports color

```javascript
// Install

```...

$ npm install --save supports-color

```javascript

// Usage

```javascript

```
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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1.216 invariant 2.2.4

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1.217 repeat-element 1.1.2
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1.218 babel-plugin-transform-strict-mode
6.24.1

1.219 linux-kernel 4.19.52

1.220 expand-range 1.8.2
1.220.1 Available under license :
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1.221 cached-property 1.4.3
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1.222 six 1.11.0

1.223 ipython 6.5.0

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://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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Mersenne Twister

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

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

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

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa
-------------

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Mersenne Twister

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------------

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efuhash
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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
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Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.239 babel-helper-define-map 6.26.0

1.240 billiard 3.5.0.4

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1.246 fs.realpath 1.0.0

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1.260 lunr 0.7.2

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1.264 postcss-modules-values 1.3.0

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1.268 babel-helper-optimise-call-expression
6.24.1

1.269 django-cors-headers 2.4.0
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1.276 is-object 2.1.0

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1.280 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.281 babel helpers 6.24.1
1.282 babel-types 6.26.0

1.283 pickleshare 0.7.4
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1.284 babel-plugin-transform-es2015-classes 6.24.1

1.285 coverage 4.3.4
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Coverage.py was originally written by Gareth Rees, and since 2004 has been extended and maintained by Ned Batchelder.

Other contributions, including writing code, updating docs, and submitting
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1.287 twisted 18.7.0
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1.289 slash 1.0.0

1.290 pendulum 2.0.4

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1.293 source-map-support 0.4.18
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1.295 backbone 1.2.3

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1.296 source-map 0.6.1

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1.297 randomatic 1.1.7

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1.298 pip 18.0
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1.299 babel-polyfill 6.26.0

1.300 python-docker 2.0.2
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1.301 regjsparser 0.1.5
1.301.1 Available under license:

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1.302 minimatch 3.0.4
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1.303 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 </internals/contributing/writing-code/unit-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/cla/

   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/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.

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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1.305 hash-base 3.0.4

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1.306 babylon 6.18.0

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1.307 buffer-xor 1.0.3

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1.308 odfpy 1.3.6

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1.309 ansi-regex 2.1.1

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1.310 babel-plugin-transform-regenerator

6.26.0

1.311 crypto-browserify 3.12.0

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1.312 ajv 6.10.0
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1.315 css-selector-tokenizer 0.7.1
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1.316 micromatch 2.3.11

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1.317 libyaml 0.1.7

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1.318 create-ecdh 4.0.3

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1.319 backgrid 0.3.8

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1.320 minimalistic-crypto-utils 1.0.1

1.321 gmp 6.1.2

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1.322 channels 2.1.3

1.323 django-redis 4.9.0

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1.324 babel-helper-hoist-variables 6.24.1
1.325 taglib 0.12.1

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1.326 ajv-keywords 3.4.0
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1.327 webpack-jquery-ui 2.0.1

1.328 escape-string-regexp 1.0.5
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1.329 lodash 4.17.4

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1.330 big.js 5.2.2

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1.331 text-encoding-shim 1.0.4
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1.333 urllib3 1.24.2

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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

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

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

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

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

* 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>
  * 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 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 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 `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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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1.335 os-tmpdir 1.0.2
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1.336 pyasn1 0.4.4

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ASN.1 library for Python

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Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.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
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.. toctree::
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/download

Changes
-------

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

.. toctree::
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/changelog

License
-------

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Getting help

Books on ASN.1

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

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

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


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


If you are working with ASN.1, we’d highly recommend reading a proper book on the subject.

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/docs/source/contents.rst`

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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4-1.tar.gz/pyasn1-0.4.4/pyasn1.egg-info/PKG-INFO
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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/)
[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

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
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```  

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

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

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

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

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

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

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

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

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

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

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

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

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1.337 ms 2.0.0

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1.344 cipher-base 1.0.4

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***********************************************************************

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work.
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3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Pietro Brooks <Pietro.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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    space on the stuff in the html/pic/ subdirectory
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References

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Open-vm-tools v10.1.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.376 python-cffi 1.10.0

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1.377 traitlets 4.3.2

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1.378 et-xmlfile 1.0.1

1.379 pyasn1 0.1.9

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1.380 readable-stream 2.3.6
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1.381 redis 2.10.6

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1.382 linux-headers 4.19.52

1.383 color-name 1.1.3
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1.384 asn1crypto 0.24.0
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1.385 diffie-hellman 5.0.3
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1.386 procps 3.3.15

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1.396 babel-plugin-transform-es2015-sticky-regex 6.24.1

1.397 create-hmac 1.1.7

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1.398 uri-js 4.2.2
1.398.1 Available under license:
No license file was found, but licenses were detected in source scan.

```javascript
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",
```

---

Open Source Used In Cisco Meeting Management 3.0 1345
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/ws_local/PERMITS_SQL/1027395358_1589039046.25/0/uri-js-4-2-2-2-tgz/package/rollup.config.js
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"uri.all.js","sources":[]}...
```javascript
const handler: URISchemeHandler = {
    scheme: "https",
    domainHost: true,
    parse: function (components: URIComponents, options: URIOptions): URIComponents {
        // report missing host
        if (!components.host) {
            components.error = components.error || "HTTP URIs must have a host.";
        }
        return
    },
    serialize: function (components: URIComponents, options: URIOptions): URIComponents {
        // convert IDN via punycode
        components = punycode.toASCII(components, options);
        // Convert IDN
        for (let x = 0, xl = components.path.length; x < xl; ++x) {
            const path = components.path += x;
            try {
                path.replace(PCT_ENCODED, decodeUnreserved).toUpperCase().replace(NOT_HFNAME, pctEncChar);
            } catch (e) {
                components.error = components.error || "Email address's domain name can not be converted to ASCII via punycode: " + e;
            }
        }
        return
    },
}
export default handler;
```
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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the software and documentation are those of the\n * authors and should not be interpreted as representing official
policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexpsuri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport {
toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tf
ragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicode
Support?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends
URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
options:Options):Components;\n\tserialize(components:Components,
options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
an;\n}\n\nexport 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\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS :
RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} =
{};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst

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c2 = parseInt(str.substr(i + 4, 2), 16);
newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
}
else {
newStr += str.substr(i, 6);
}
i += 6;
}
else if (c >= 224) {
if ((il - i) >= 9)
{
const c2 = parseInt(str.substr(i + 4, 2), 16);
const c3 = parseInt(str.substr(i + 7, 2), 16);
newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
} else {
newStr += str.substr(i, 9);
}
i += 9;
}
else {
newStr += str.substr(i, 3);
}
i += 3;
}
return newStr;
}

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

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).toUpperCase().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.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).toUpperCase().replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).toUpperCase().replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

return components;
};

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] = matches;

if (address) {
return address.split(".").map(_stripLeadingZeros).join(".");
} else {
return host;
}
}

function _normalizeIPv6(host:string, protocol:URIRegExps):string {
const matches = host.match(protocol.IPV6ADDRESS) || [
];
const [address, zone] = matches;

if (address) {
const [last, first] = address.toLowerCase().split('::').reverse();
const firstFields = first ? first.split(":").map(_stripLeadingZeros) : 
; const lastFields = last.split(":").map(_stripLeadingZeros);
const isLastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);
const fieldCount = isLastFieldIPv4Address ? 7 : 8;
const lastFieldsStart = lastFields.length - fieldCount;
const fields = Array<string>(fieldCount);
for (let x = 0; x < fieldCount; ++x) {
fields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";
}
const allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field, index) => {
if (!field || field === "0") {
const lastLongest = acc[acc.length - 1];
if (lastLongest && lastLongest.index + lastLongest.length === index) {
lastLongest.length++;
} else {
acc.push({ index, length : 1 });
}
return acc;
}, 
);
const longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];
const newHost = fields.reduce((prev, field) => {
if (field.length > 0) {
prev += field;
}
return prev;
}, 
);
components:URIComponents = {};
const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);

uriString = (options.scheme === undefined ? "" : options.scheme + ":" + "/" + "/" + uriString);

uriString.match = uriString.match(URI_PARSE);

(matches[1] !== undefined) {

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
```javascript
* function ucs2decode(string) {
  const output = []; 
  let counter = 0;
  //while ((counter < length) &
  // value >= 0xDB80 &&
  // value <= 0xDBFF &&
  // counter < length) { 
  // It's a high surrogate, and there is a next character:
  const extra =
  string.charCodeAt(counter++);
  //} // Low surrogate: 
  output.push(((value & 0x3FF) << 10) +
  (extra & 0x3FF) + 0x10000); 
  else { // It's an unmatched surrogate; only append this code unit,
  // in case the next code unit is the high surrogate of a
  // surrogate pair:
  output.push(value); 
  counter--;
  } else {
  output.push(value);
  } 
  return output;
}

/**
 * Creates a string based on an array of numeric
code points.
 * @see `punycode.ucs2.decode`
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} A new Unicode string (UCS-2).
*/
const ucs2encode = array => String.fromCodePoint(...array);

/**
 * Converts a basic code point into a
digit/integer.
 * @see `digitToBasic()`
 * @param {Number} codePoint The numeric value of a basic code point.
 * @returns {Number} The numeric value of a basic code point.
*/
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x0A) {
    return codePoint - 0x16;
  }
  if (codePoint - 0x41 < 0x1A) {
    return codePoint - 0x41;
  }
  if (codePoint - 0x61 < 0x1A) {
    return codePoint - 0x61;
  }
  return base;
};

/**
 * Converts a digit/integer into a basic code point.
 * @see `basicToDigit()`
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The basic code point whose value
 * is `digit`, which needs to be in the range
 * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is used;
 * else, the lowercase form is used. The behavior
 * is undefined if `flag` is non-zero and `digit` has no uppercase form.
 * The basic code point value, for use in `input`.
 * @param {Number} Number} The numeric value of a basic code point.
 * @returns {Number} The numeric value of a basic code point.
*/
const digitToBasic = function(digit, 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) {
  // Don't use UCS-2.
  const output = []; 
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;

  // Handle the basic code
  points:
  // get `n` at position `i` of the
  // value at the end to obtain
  // `delta`.
  let oldi = i;
  let for (let j = 0; j < basic; ++j) {
    if (input.charCodeAt(i++) >= 0x80) {
      error('not-basic');
    }
    output.push(input.charCodeAt(i++));
  }

  // Main decoding loop:
  while (i < inputLength) {
    if (it's a basic code point:
    // Copy the first basic code
    // points to the output:
    for (let j = 0; j < basic; ++j) {
      output.push(input.charCodeAt(i++));
    }

    // Add `n` at position `i` of the
    // value at the end to obtain
    // `delta`.
    let oldi = i;
    let for (let w = 1; w < base; ++w) {
      // Get the next digit:`w`.
      const digit =
      basicToDigit(input.charCodeAt(i++));
      if (digit >= base || digit > floor(maxInt / w)) {
        error('overflow');
      }
      i += digit * w;
      const t = k <= bias ? tMin :
      (k >= bias + tMax ? tMax :
      k - bias);
      if (digit < t) {
        t = basicMinusTMin + 1;
        t = delta / (delta + skew);
      }
      const baseMinusTMin =
      floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
      if (baseMinusTMin > maxInt) {
        error('overflow');
      }
      i += digit * w;
      const out = output.length +
      1;
      bias = adapt(t - oldi, out, oldi == 0);
      i++; // `i` was supposed to wrap around from
      // `out` to `0`, `i` is incremented
      // every time, so we'll fix that now:
      // Set `n` at position `i` of the
```

}

export function toUpperCase(str:string):string {
	return str.toUpperCase();
}

export function toArray(obj:any):Array<any> {
}

export function assign(target: object, source: any): any {
	const obj = target as any;
	if (source) {
		for (const key in source) {
			obj[key] = source[key];
		}
	}
	return obj;
}
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BoH, QAAQP, IAA, CAaA, GAaB, CAaC, SAaH, MAoI; sBACD, OAAO, CAaP, CAAY, GAAZ, CAaV, ... YAGG kH, IAaJ, EAAU; uBAcE, MAAMA, IAaJ b; : ; AGMD, OAAP, KA5CD, MA6Co; eACcVd, IAAP, ... ; AAIF, IAAMsD, Y AAY, iIAAIb; AACA, IAAMD, wBAA4C, EAAD, CAkH, KAAL, CAwW, OAAE, EAAqB, CAaB, MAA4BE, SAA7E, EAAE, AAaA, SAAaQ, KAaA, CAAsBIH, SAAaB, EAAa; QAaAvW9H, OAAxC, uEAaA6D, EAAD7T; QACoC, aA A2B, EAAjC; QACM8F, WAAY7G, QAaQuC, GAaR, KAaBgB, KAaAhB, GAawByC, YAAxA, GAuCd, YAAzD, QA eIF, QAQQ2G, SAaR, KAaB, EAaQaC, BIAAE, BAMA, YAAuC9H, CAaCy9H, QAQQ, MAAR, GAAIbS, QAQAT, MAAR, GAaIB, GAACIC, GAaaW, CAAzC, IIAA+c, IIAA; CAAsDuL, SAAIE, QAEE9BhH, UAAuGh, UAaU3H, KAAV, CAA gBI, SAAaB, CAaBH, QAaEH0, HAAJ, EAAa; YACRoQ, qaBBaJ, EAa2B; : ; uBAAE3I, MAAX, GAaAoBbB, QAQQA, CA AC, CAApB; uBACWqF, QAAX, GAaSBF, QAQQ, CAaRA, CAAbB; uBACW+d, JAAx, GAAKB, D, QAQQ, CAAC, C AAbb, uBACW8D, SAAaSbH, QAQQ, CAaR, CAaT, EAQaB, EAARb, CAAB; uBACWN, IAAx, GAAkBM, QAQQ, CAaR, KAaC, EAahCuBACWG, KAAx, GAAmBH, QAQQ, CAaR, CAAnB; uBACWkF, QAAX, GAaSBf, QAQQ, CAaR, CAaTb; : ; gBAGIh, MAAMH, WAAY6D, JAAIb, CAJ, EAAE4B, 2BAbItbA, IAAx, GAA k9D, QAQQ, CAaR, CAAC, +IADZ, MAoC; : ; uBAEKeVb, MAAX, GAaAoBbB, QAQQ, CAaR, KAaCT, SAAIC, UaBA CW8F, QAAX, GAaAuB2B, UAAUE, OAAV, CAaKAbB, MAAB2B, CAAC5B, GAAGCH, QAQQ, CAAC, CA AhC, CAA6ClT, SAAaPbEwC, IAAx, GAAMbD, UAAUE, OAAV, CAaKAbB, IAAx, MAA4BE, CACAc, CAa77B , GAAcIh, QAQQ, CAAC, CAaIjC, GAA8ClH, SAAaEj, uBACWuE, IAAx, GAAKB, D, SAAaSh, QAQQ, CAaR, CAaT, EAQaB, EAArB, CAAB; uBACWN, IAAx, GAAkBM, QAQQ, CAAC, KAaC, EAahCuBACWG, KAAx, GAaOb6G , UAAUE, OAAV, CAaKAbB, CAaAB, GAAMb2A, CAAC5B, GAAGCH, QAQQ, CAAC, CAAhC, CAA6ClT, SAAaEj, uBACW2F, QAAX, GAaAuBbB, UAAUE, OAAV, CAaKAbB, GAABl, MAA2B2B, CAAC5B, GAAGCH, QAQQ, CAAC, CA AhC, CAA6ClT, SAAaPcE; :gBAGI0H, MAAMH, WAAY6D, JAAIbJ, CAJ, EAAE4B, 2BAbItbA, IAAx, GAAMbK D, UAAU3H, KAAV, CAAC, +IADZ, +BAbIA, BAAb, BAMA, D, QAQQ, QAQQ, CAAC, CAAnD, DGAAGET, SAANf; : ; YAIEU, WAAY8D, IAAf, EAAqB; : ; uBAETA, IAAx, GAAKB, C, eA AeC, eAe7G, WAAY8D, JAAIbB, EAEB, GAEEGc, QAahC, CAAfC, EAa0 Da, QAAD1D, CAABB; : ; YAIG9F, WAAY8B, MAAX, KAAsBc, SAAAtB, IAAmuC, WAAMoFo, QAAX, KAaB9F, SA A3D, JAAweU, WAAY8D, IAAx, KAaBoExE, SAA5F, JAYAgU, WAAY8D, IAAx, KAaBeE, SAA7H, IAAa0I, CAA CU, WAAY8P, IAAJd, IAA8JO, WAAY8E, KAaBQz, SAAxL, EAAkMuBACTLsG, SAAx, GAABeA, SAAvbA, SAA DD, MAAE, IAA1bF, WAAY8B, MAAX, KAAsBc, SAAIb, EAACeUbAChCsg, SAAx, GAABeA, UAAV, SAA|DDM, M AEa, IAa1F5W, WAAY8F, QAAX, KAaB3F, SAA5B, EAuAcUcUBACICsG, SAAx, GAABeA, UAAV, SAA|D, MAEEA, uBACKA, GAABeA, KAAbB, CAA; ; YAIG3G, QAQQ2Q, SAAE, IAAIb3Q, QAQQ2G, QAQQ, SAAE, KAAS, QAAc, IAIA uD3Q, QAQQ2G, SAAE, KAASB5F, WAAY8F, SAA5E, EAuAcUcUBAC3F1G, KAAX, GAAMBC, WAAY8D, KAAX, IAAoB, kBAABKdD, QAQQ2G, SAA1b, GAABeA, CAA; ; aAT7E; : ; YA1KGl, gBAAgBrB, QAQQ, CAACwC, QAQQ, MAAR, IA AkBwB, WAAY8bW, MAA7B, IAAuC, EXAC, EAAu4C, WAA3C, WAAY8C, EAAR, EAuACtB; : ; YAIGL, CAACcC, QAQQ, SAAqD, eAAT, KA4bB, CAACcC5, eAAT, IAAbKb, CAACA, eAAc4C, CAAC7D, CAAJ, EAAkF; : ; gBaEt7EvC, WAAY8D, IAAx, KAaO B7E, QAQQ2E, UAAR, IAaUbJeB, iBAaBaC, CAACIF, UAAbE, CAAJ, EAAbF; : ; oBAEvF; : ; BACQCe, IAAx, GAAbKpC, SAAcC, OAAr, CAAIbB, WAAY8D, IAAx, KAaBtD, OAAAb, BAABoF, SAAASf, WAAjC, EAAA8CtU, WAAY9 C, EAA2DhE, WAAY3D, EAaBJ, CAABiBADD, CAEB, OAOOyc, CAAP, EAaabU; : ; BACACv, CAAX, GAAMBC, WA AWd, KAAX, IAAoB, ENAEO, EBAAeUc, CAAs3G; ; ; ; wCAI0BzB, UAA5B, EAaWeCgY, YAXAC, SAXD, MAYO; : ; CAAEbF; : ; UAA5b, EAaWeCF8, QAAC; : ; YAIGNi, gBAIBaB, CAAcC, CAAG, KAanC, GAAoC0, 0BA3CBA, KAAd, CAABeO, UAApB, EAEgCf, CAaHc; : ; KAAF3E, MA6EO; mBAbCKC, KAAX, GAAMBC, WAAYWD, KAAX, IAAoB, wBAaVc; : ; WAGMcu, UAAP; : ; ACAA, AAEED, SAAa6F, mBAAA, CAAC687F, UAAY7B, EAuAdF, OAAvD, EAAa; QAAC06G, WAAY7G, QAQA, QAAC, GAarK, KAaBbG, AABc, YAAY, GAAuCy, YAaZD, QC,cmmmBw, YAAB0, EAAhC; QAElEf, WAA WoF, QAAX, KAAB9F, SAA5B, EAuAcUcKAB5BgB, IAAV, CAACeN, WAAWof, QAAlB, kBCu9E9, IAAV, CAACeA, GAACf; : ; QAQQG, WAAY8D, IAAx, KAaObEs, SAAxB, EAAMc; : ; kBAExBgB, IAAV, CAACeG; eCAAeCae1E, OAAonC; WAAY8D, IAAEoW, EAaAcuCgQ, QAQAc, CAAfC, EAaEkAe, eAA1E, QAABeE4Efo, OAA5E, CAAoF5F, SAA SC, WAAY7F, EAaOG, UAAcE, CAAD, EAAIjE, EAAbEAjE, QAACQ, EAAr; mBAaE, MAAMD, EAAN, IAAYC, KAAQ, QA AA, EAAb, GAAbKb, EAAb9B, IAAoC, GAAMoD, SAA1G, CAAf; ; QAQQ, OAAoa3G, WAAY6D, IAAlB, KAAB2D, QAA /B, EAAyC, kBAC9BvdD, IAAV, CAACe, GAAf; : ; kBCAU, IAAV, CAAeN, WAAY6D, IAAx, CAACeG, QAAbhC, CAACy B, EAAzB, CAAf; ; WAGMyB, UAAUnF, MAAX, GAAMBMf, UAAUpF, IAAV, CAACeA, EAAb, CAANb, GAAwCD, SA A/C; : ; ACAA, AAED, IAAMmH, OAAO, UAAb; ACAA, IAAMD, OAAO, aaAAb; ACAA, IAAMD, OAAO, eaAAb; ACAA
QAAQS.GAAvC,UA84CZ,GAA9C;eAEOU,aAAP%;CA1CF,CA8CA%;AD5DA,IAAMH,0AA0,0IDAAb;AACA,A
AEA;AAAC,IAAME,YAAeE;YACIE,UADkE;WAQnE,eAAUv,aAAY,EAuCI,0AAvC,EAAT;YACQF;iBAAlB
F,aAAvB,AAeC;IAAf,GAAsBQ,eAAeD,GA9C,0BACeA,GAff,GAAqBQ,SAaB;YAEI,CAACL,QAQE,Q
AAAT,KAAsB,CACCl,eAAeR;IAAhB,IAAwB,CAACQ,eAAeR,IAAf,CAAoBa,KAAPB,CAA0BC,IAA1B,CAA/C,
CAAJ,EAaqF;2BAcEH,KAAsB,GAuB,fAAeG,KAAJ,IAAvB,0BAA/C;eAGMH,cAAP;KAZ0E;eAe/D,mBAA
UAa,cAAvB,EAQnJE,OAaJ,CA8Ab;YACQJ,gBAAgBE,CAAtB;;sBAEcD,GAAd,GAAoB,CAACC,eAAeR;IAAaf
,IAAuB,EAAB,EAA4BS,WAA5B,EAAPB;eACOH,aAAP%;CAnBF,CauBA;AAdhCAP,QAAQM,QAAKJ,MAAb,
IAsBl,OAAB;AAEA,AAAC,QAAKQ,UAAMH,MAAd,IAAwB,SAaX;AAEA,AAACAL,QAAQI,AAOF,
MAAf,IAAyBE,SAAzB;AAEA,AAAJQ,QAQQG,UAAd,ID,MAAZ,IAAsBC,SAaT;AAEA,AAAHQ,QAAQC,UA
AKC,MAAb,IAAuBD,SAABV,CAEA;----------;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1027395358_1589039046.25/0/uri-js-4-2-2-2-tgz/package/dist/es5/uri.all.js.map

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export function merge(...sets:Array<string>):string {
    if (sets.length > 1) {
        sets[0] = sets[0].slice(0, -1);
        const xl = sets.length - 1;
        for (let x = 1; x < xl; ++x) {
            sets[x] = sets[x].slice(1, -1);
        }
        sets[xl] = sets[xl].slice(1);
        return sets.join('');
    } else {
        return sets[0];
    }
}

export function subexp(str:string):string {
    return "(?:" + str + ")";
}

export function typeOf(o:any):string {
    return o === undefined ? "undefined" : (o === null ? "null" : Object.prototype.toString.call(o).split(" ").pop().split("]").shift().toLowerCase());
}

export function toUpperCase(str:string):string {
    return str.toUpperCase();
}

export function toArray(obj:any):Array<any> {
}

export function assign(target: object, source: any): any {
    const obj = target as any;
    if (source) {
        for (const key in source) {
            obj[key] = source[key];
        }
    }
    return obj;
}
9]\" + 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$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" +
merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") +
\"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ +
\"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ =

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```javascript

if (index >= inputLength) {
    error('invalid-input');
}

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

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

i += digit * w;

t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);

if (digit < t) {
    break;
}

baseMinusT = base - t;

if (w > floor(maxInt / baseMinusT)) {
    error('overflow');
}

w *= baseMinusT;

}

const out = output.length + 1;
bias = adapt(i - oldi, out, oldi == 0);

if (floor(i / out) > maxInt - n)
    error('overflow');

n += floor(i / out);
i %= out;

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

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 = [];
    input = ucs2decode(input);
    let inputLength = input.length;
    let n = initialN;
    let delta = 0;
    let bias = initialBias;
    for (const currentValue of input) {
        if (currentValue < 0x80)
            output.push(stringFromCharCode(currentValue));
        else {
            handledCPCount += 1;
            m = maxInt;
            for (const currentValue of input) {
                if (currentValue > m)
                    m = currentValue;
            }
            delta += (m - n) * (handledCPCountPlusOne);
            n = m;
            for (const currentValue of input) {
                if (currentValue < n)
                    delta += (currentValue - n + 1) * base;
                if (currentValue > m)
                    m = currentValue;
            }
            const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
            if (q < t)
                break;
            const baseMinusT = base - t;
            output.push(stringFromCharCode(digitToBasic(t + q % baseMinusT, 0)));
            q = floor(q / baseMinusT);
        }
        output.push(stringFromCharCode(digitToBasic(q, 0)));
        bias = adapt(delta, handledCPCountPlusOne, handledCount == basicLength);
        delta = 0;
        handledCPCount = basicLength;
        return output.join('');
    }
    return output.join('');
};

/**
 * Converts a Punycode string representing a domain name or an email address to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The Punycoded domain name or email address to convert to Unicode.
 * @returns {String} The Unicode representation of the given Punycode string.
 */
const toUnicode = function(input) {
    return mapDomain(input, function(string) {
        return regexPunycode.test(string)
            ? decode(string.slice(4).toLowerCase())
            : string;
    });
};

/**
 * Converts a string of Unicode symbols representing a domain name or an email address to Punycode.
 * @memberOf punycode
 * @param {String} input The domain name or email address to convert, as a string.
 * @returns {String} The resulting Punycode string.
 */
const toASCII = function(input) {
    return mapDomain(input, function(string) {
        return regexNonASCII.test(string)
            ? 'xn--' + encode(string)
            : string;
    });
};

const punycode = {
    version: '3.0.1379',
    encode: encode,
    toUnicode: toUnicode,
    toASCII: toASCII
};
```

---

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An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.

```javascript
/**
 * An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.
 * @see <https://mathiasbynens.be/notes/javascript-encoding>
 * @memberOf punycode
 * @type Object
 */

/**
 * @member {Function} decode
 * @memberof punycode
 */

/**
 * @member {Function} encode
 * @memberof punycode
 */

/**
 * @member {Function} toASCII
 * @memberof punycode
 */

/**
 * @member {Function} toUnicode
 * @memberof punycode
 */

*/

export default punycode;
```
input.replace(RDS2, "\"\"");

if (input.match(RDS3)) {
    const im = input.match(RDS3);
    const s = im[0];
    input = input.slice(s.length);
}

output.push(s);

if (input === "." || input === "..") {
    input = "";
}

const im = input.match(RDS5);

if (im) {
    const s = im[0];
    input = input.slice(s.length);
    output.push(s);
}

else {
    throw new Error("Unexpected dot segment condition");
}

return output.join("");
}

export function serialize(components:URIComponents, options:URIOptions = {}) {
    const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens:Array<string> = [];

    //find scheme handler
    const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

    //perform scheme specific serialization
    if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);

    if (components.host) {
        //if host component is an IPv6 address
        if (protocol.IPV6ADDRESS.test(components.host)) {
            throw new Error("IPv6 addresses are not supported");
        } else {
            //if host component is a domain name
            try {
                components.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));
            } catch (e) {
                components.error = components.error || "Host's domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
            }
        }
    }

    //normalize encoding
    _normalizeComponentEncoding(components, protocol);

    if (options.reference !== "suffix" && components.scheme) {
        uriTokens.push(components.scheme);
        uriTokens.push(":");
    }

    const authority = _recomposeAuthority(components, options);
    uriTokens.push(escape(authority));
    uriTokens.push("/");
    uriTokens.push(authority);
    uriTokens.push("//");
    uriTokens.push(authority);
    uriTokens.push("/");
    uriTokens.push(s);

    if (components.query !== undefined) {
        uriTokens.push("?");
        uriTokens.push(components.query);
    }

    if (components.fragment !== undefined) {
        uriTokens.push("#");
        uriTokens.push(components.fragment);
    }

    return uriTokens.join("\"\"" Curry);
\"\\\@\" + DOMAINS);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\\\\\\\"\" + ADDR_SPEC$) + \"\\\&\");\nconst HFNAME$ = subexp(QCHAR$ + \"\\\&\"");\nconst HFVALUES$ = HFNAME$;\nconst HFIELDS$ = subexp(HFNAME$ + \"\\\&\" + HFVALUES$);\nconst HFIELDS2$ = subexp(HFIELDS$ + subexp(\\\\\\\"\" + HFIELDS$) + \"\\\&\");\nconst MAILTO_URI = new RegExp(\\\\\\\"mailto:\\:" + TO$ + \"\" + HFIELDS$ + \"\\?\" + UNRESERVED$ + new RegExp(UNRESERVED$$, \"g\")\n        .test(str);\n    return (\"mailto\" + escapeComponents(to) + escapeComponents(subject) + escapeComponents(headers));
}

function decodeUnreserved(str:string):string {
    const decStr = pctDecChars(str);
    return (!decStr.match(UNRESERVED$) ? str : decStr);
}

const handler:URISchemeHandler<MailtoComponents> =  {
    scheme : "mailto",
	parse : function (components:URIComponents, options:URIOptions):MailtoComponents {
        const mailtoComponents = components as MailtoComponents;
        const to = mailtoComponents.to = (mailtoComponents.path ?
            mailtoComponents.path.split(\",\") : []);
        const mailtoComponents.path = undefined;

        if (mailtoComponents.query) {
            let unknownHeaders = false
            const headers:MailtoHeaders = {};
            const hfields = mailtoComponents.query.split(\"&\");

            for (let x = 0, xl = hfields.length; x < xl; ++x) {
                const hfield = hfields[x].split(\"=\");

                switch (hfield[0]) {
                    case "to":
                        mailtoComponents.to.push(unescapeComponent(hfield[1], options));
                        break;
                    case "subject":
                        mailtoComponents.subject = unescapeComponent(hfield[1], options);
                        break;
                    case "body":
                        mailtoComponents.body = unescapeComponent(hfield[1], options);
                        break;
                    case "headers":
                        for (let x = 0, xl = hfields.length; x < xl; ++x) {
                            const hfield = hfields[x].split(\"=\");
                            const switchCase = switch(hfield[0]) {
                                case "to":
                                    mailtoComponents.to.push(unescapeComponent(hfield[1], options));
                                    break;
                                case "subject":
                                    mailtoComponents.subject = unescapeComponent(hfield[1], options);
                                    break;
                                case "body":
                                    mailtoComponents.body = unescapeComponent(hfield[1], options);
                                    break;
                                default:
                                    unknownHeaders = true;
                                    headers[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);
                                    break;
                            }
                        }
                        break;
                    default:
                        unknownHeaders = true;
                        break;
                }
            }

            if (unknownHeaders) mailtoComponents.headers = headers;
            mailtoComponents.query = undefined;

            for (let x = 0, xl = to.length; x < xl; ++x) {
                const addr = to[x].split(\"@\");

                addr[0] = unescapeComponent(addr[0]);

                if (!options.unicodeSupport) {
                    //convert Unicode IDN -> ASCII IDN
                    try {
                        addr[1] = punycode.toASCII(unescapeComponent(addr[1], options));
                    } catch (e) {
                        mailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;
                    }
                } else {
                    addr[1] = unescapeComponent(addr[1], options);
                }

                to[x] = addr.join(\"@\");
            }

            components.path = to.join(\",\");
            components.to = to;
            components.headers = headers;
            components.subject = unescapeComponent(components.subject, options);
            components.body = unescapeComponent(components.body, options);
        }

        return components;
    },

    serialize : function (mailtoComponents:MailtoComponents,
        options:URIOptions):URIComponents {
        const components = mailtoComponents as URIComponents;
        const addr = toArray(mailtoComponents.to);
        const to = (addr ? toArray(addr) : []);
        const toAddr = String(to);

        const mailtoComponents.subject = to.join(\"@\");
        const mailtoComponents.body = mailtoComponents.body;
        const mailtoComponents.headers = mailtoComponents.headers;

        return components;
    }
};

mailtoComponents = handler.parse(new RegExp(\\\\\\\"mailto:\\:" + escapeComponents(to) + escapeComponents(subject) + escapeComponents(headers)), options);

mailtoComponents.subject = unescapeComponent(mailtoComponents.subject, options);
mailtoComponents.body = unescapeComponent(mailtoComponents.body, options);
mailtoComponents.headers = mailtoComponents.headers;

if (mailtoComponents.headers) {
    for (let x = 0, xl = mailtoComponents.headers.length; x < xl; ++x) {
        const headerKey = Object.keys(mailtoComponents.headers)[x];
        const headerValue = mailtoComponents.headers[headerKey];

        if (headerKey === \"to\") {
            mailtoComponents.to.push(unescapeComponent(headerValue, options));
        } else if (headerKey === \"subject\") {
            mailtoComponents.subject = unescapeComponent(headerValue, options);
        } else if (headerKey === \"body\") {
            mailtoComponents.body = unescapeComponent(headerValue, options);
        } else {
            mailtoComponents.headers[headerKey] = unescapeComponent(headerValue, options);
        }
    }
}

mailtoComponents.scheme = \"mailto\";
mailtoComponents.path = escape(globWWW) + escape(password);
mailtoComponents.query = escape(unescapeQuery(to)) + escape(unescapeQuery(subject)) + escape(unescapeQuery(headers));

mailtoComponents.request = new Request(\"mailto:\\:" + escape(globWWW) + escape(password) + escape(unescapeQuery(to)) + escape(unescapeQuery(subject)) + escape(unescapeQuery(headers)), options);

(urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\ntconst uuidComponents =
urnComponents as UUIDComponents;\n\ntuuidComponents uuid = uuidComponents.nss;\n\ntuuidComponents.nss = undefined;\n\ntuuidComponents.error = uuidComponents.error || \n"\nUUID is not valid.\n\n\nreturn
tuuidComponents;\n\ntconst serialize : function (uuidComponents:UUIDComponents,\noptions:URIOptions):URNComponents {\n\ntconst urnComponents = uuidComponents as\nURNComponents;\n\nturnComponents.nss = (uuidComponents.uuid ||\n"\n").toLowerCase();\n\nreturn urnComponents;
\n};
\nexport default handler;
};

import { SCHEMES } from 
"./uri";

import http from 
"./schemes/http";
SCHEMES[http.scheme] = http;

import https from 
"./schemes/https";
SCHEMES[https.scheme] = https;

import mailto from 
"./schemes/mailto";
SCHEMES[mailto.scheme] = mailto;

import urn from 
"./schemes/urn";
SCHEMES[urn.scheme] = urn;

import uuid from 
"./schemes/urn-uuid";
SCHEMES[uuid.scheme] = uuid;

export * from "./uri";

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

## API

### Parsing

```javascript
URI.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

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

### Resolving

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

### Normalizing

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

### Comparison

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

### IP Support

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

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

//IPv6 zone identifier support
```javascript
URI.parse("//[2001:db8::7%25en1]"tenant/Anonymous/683912"");
```
### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://examplé.org/rosé")) === "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://examplé.org/rosé"

### 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)
* https (RFC 2818)
* mailto (RFC 6068)
* urn (RFC 2141)
* urn:uuid (RFC 4122)

### HTTP Support

```javascript
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!"
//}
```

```javascript
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, 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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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1027395358_1589039046.25/0/uri-js-4-2-2-2-tgz/package/README.md

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1.403 fs-readdir-recursive 1.1.0

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1.409 core-util-is 1.0.2

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1.410 jsonschema 2.5.1
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1.412 postcss-modules-extract-imports 1.2.1

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1.413 backbone-computedfields 0.0.12

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1.414 ldap-filter 0.2.1

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1.415 async-timeout 3.0.0

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1.416 msgpack 0.5.6

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1.417 json5 1.0.1

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1.418 netlink
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1.419 pycparser 2.17
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1.422 python-cffi 1.11.5

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1.425 object.omit 2.0.1

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1.429 for-in 1.0.2
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1.435 string_decoder 1.1.1

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1.438 babel-preset-es2015 6.24.1

1.440 source-map 0.5.7

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1.444 parse-asn1 5.1.1

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