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1.7 has-ansi 2.0.0

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

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

Install

...

\$ 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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1.8 supports-color 2.0.0

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

> Detect whether a terminal supports color

Install

...

\$ npm install --save supports-color

...

Usage

```js

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

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

```

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

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

Related

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

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1.10 buffer-xor 1.0.3

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1.11 backbone 1.2.3

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1.19 inflight 1.0.6

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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1.51 source-map-support 0.4.18

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1.55 repeat-element 1.1.2

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1.56 regex-cache 0.4.4

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1.57 core-util-is 1.0.2

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1.58 readdirp 2.1.0

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1.59 randomatic 1.1.7

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1.60 punycode 1.4.1

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1.62 debug 2.6.9

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1.64 path-is-absolute 1.0.1

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1.68 parse-glob 3.0.4

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1.70 ms 2.0.0

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1.74 is-number 2.1.0

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1.80 graceful-fs 4.1.11

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1.84 for-in 1.0.2

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1.85 fill-range 2.2.3

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1.87 dcron 4.5

1.88 webcolors 1.7

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1.89 ifupdown 0.8.16

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Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

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1.174 diff-match-patch 20121119

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 * @author: Jack Doyle, jack@greensock.com
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```

Found in path(s):

- /gsap-1-20-3-tgz/package/DirectionalRotationPlugin.js
- /gsap-1-20-3-tgz/package/src/uncompressed/plugins/DirectionalRotationPlugin.js
- /gsap-1-20-3-tgz/package/src/minified/plugins/DirectionalRotationPlugin.min.js

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Found in path(s):

- /gsap-1-20-3-tgz/package/src/minified/plugins/RoundPropsPlugin.min.js
- /gsap-1-20-3-tgz/package/RoundPropsPlugin.js
- /gsap-1-20-3-tgz/package/src/uncompressed/plugins/RoundPropsPlugin.js

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Found in path(s):

```

* /gsap-1-20-3-tgz/package/src/minified/plugins/RaphaelPlugin.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/RaphaelPlugin.js
* /gsap-1-20-3-tgz/package/RaphaelPlugin.js

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Found in path(s):

```

* /gsap-1-20-3-tgz/package/src/minified/plugins/TextPlugin.min.js
* /gsap-1-20-3-tgz/package/TextPlugin.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/TextPlugin.js

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Found in path(s):

```

* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/EndArrayPlugin.js
* /gsap-1-20-3-tgz/package/src/minified/plugins/EndArrayPlugin.min.js

```


* /gsap-1-20-3-tgz/package/EndArrayPlugin.js

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Found in path(s):

* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/AttrPlugin.js

* /gsap-1-20-3-tgz/package/AttrPlugin.js

* /gsap-1-20-3-tgz/package/src/minified/plugins/AttrPlugin.min.js

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* @author: Jack Doyle, jack@greensock.com

*/

Found in path(s):

* /gsap-1-20-3-tgz/package/src/minified/plugins/PixiPlugin.min.js

* /gsap-1-20-3-tgz/package/PixiPlugin.js

* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/PixiPlugin.js

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/*!

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*

* This file is to be used as a simple template for writing your own plugin. See the

* TweenPlugin docs for more details.

*

* You can start by doing a search for "yourCustomProperty" and replace it with whatever the name

* of your property is. This way of defining a plugin was introduced in version 1.9.0 - previous versions
 * of TweenLite won't work with this.
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Found in path(s):

* /gsap-1-20-3-tgz/package/TEMPLATE_Plugin.js
 * /gsap-1-20-3-tgz/package/src/uncompressed/plugins/TEMPLATE_Plugin.js
 3b6db5483fda1df1d0ff00fbc41a47d7

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  * DATE: 2017-09-14  

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```

Found in path(s):

* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/ColorPropsPlugin.js
 * /gsap-1-20-3-tgz/package/ColorPropsPlugin.js
 * /gsap-1-20-3-tgz/package/src/minified/plugins/ColorPropsPlugin.min.js

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```

Found in path(s):

* /gsap-1-20-3-tgz/package/EaselPlugin.js

```
* /gsap-1-20-3-tgz/package/src/minified/plugins/EaselPlugin.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/EaselPlugin.js
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```
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Found in path(s):

```
* /gsap-1-20-3-tgz/package/ScrollToPlugin.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/ScrollToPlugin.js
* /gsap-1-20-3-tgz/package/src/minified/plugins/ScrollToPlugin.min.js
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Found in path(s):

```
* /gsap-1-20-3-tgz/package/src/uncompressed/easing/EasePack.js
* /gsap-1-20-3-tgz/package/EasePack.js
* /gsap-1-20-3-tgz/package/src/minified/easing/EasePack.min.js
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```
/*!
* VERSION: 0.16.0
* DATE: 2017-10-02
* UPDATES AND DOCS AT: http://greensock.com
*
* Requires TweenLite and CSSPlugin version 1.17.0 or later (TweenMax contains both TweenLite and CSSPlugin).
ThrowPropsPlugin is required for momentum-based continuation of movement after the mouse/touch is released
(ThrowPropsPlugin is a membership benefit of Club GreenSock - http://greensock.com/club/).
```

```

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```

Found in path(s):

```

* /gsap-1-20-3-tgz/package/Draggable.js
* /gsap-1-20-3-tgz/package/src/minified/utils/Draggable.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/utils/Draggable.js
UNRECOGNIZED LICENSE; MD5 sum: 3b6db5483fda1df1d0ff00fbc41a47d7
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```

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Found in path(s):

```

* /gsap-1-20-3-tgz/package/src/uncompressed/TimelineMax.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/CSSPlugin.js
* /gsap-1-20-3-tgz/package/src/minified/TimelineLite.min.js
* /gsap-1-20-3-tgz/package/TimelineMax.js
* /gsap-1-20-3-tgz/package/CSSPlugin.js
* /gsap-1-20-3-tgz/package/TimelineLite.js
* /gsap-1-20-3-tgz/package/TweenLite.js
* /gsap-1-20-3-tgz/package/src/minified/TimelineMax.min.js
* /gsap-1-20-3-tgz/package/src/minified/TweenLite.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/TimelineLite.js
*
* /gsap-1-20-3-tgz/package/src/minified/plugins/CSSPlugin.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/TweenLite.js
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```

```

/*!
* VERSION: 0.1.12
* DATE: 2017-01-17
* UPDATES AND DOCS AT: http://greensock.com/jquery-gsap-plugin/
*

```

* Requires TweenLite version 1.8.0 or higher and CSSPlugin.
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Found in path(s):

* /gsap-1-20-3-tgz/package/jquery.gsap.js
* /gsap-1-20-3-tgz/package/src/minified/jquery.gsap.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/jquery.gsap.js

1.187 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

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1.200 create-ecdh 4.0.3

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1.202 create-hmac 1.1.7

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1.203 diffie-hellman 5.0.3

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1.204 hash-base 3.0.4

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1.205 minimalistic-assert 1.0.1

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1.206 pbkdf2 3.0.16

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1.207 public-encrypt 4.0.2

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1.208 randomfill 1.0.4

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1.209 ripemd160 2.0.2

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1.210 ntlm-auth 1.2.0

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1.211 moment-duration-format 2.2.2

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1.212 ptyprocess 0.6.0

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1.213 backcall 0.1.0

1.214 jdcal 1.4

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1.215 django-auth-ldap 1.7.0

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1.217 automat 0.7.0

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1.218 et-xmlfile 1.0.1

1.219 txaio 18.8.1

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1.220 django-cors-headers 2.4.0

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1.221 odfpy 1.3.6

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1.223 supports-color 5.5.0

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1.225 zlib 1.2.3

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

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1.226 pynacl 1.3.0

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1.231 colorama 0.4.1

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1.232 jquery-ui 1.12.1

1.233 webpack-jquery-ui 2.0.1

1.234 bzip2 1.0.8

1.235 iptables 1.8.3

1.236 open-ldap 2.4.48

1.237 select2 4.0.8

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1.238 sqlite 3.30.1

1.239 zlib 1.2.8

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version 1.2.11, January 15th, 2017

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1.240 zlib 1.2.5

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1.241 json-c 0.99.8

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1.242 lua-cjson 2.1.0

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1.243 gmp 6.1.2

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Version 3, 29 June 2007

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1.244 net-tools 2.10

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1.245 ncurses 6.1

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

Files: *

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Files: aclocal.m4 package

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Files: doc/html/NCURSES-Programming-HOWTO.html

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

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-- vile:txtmode fc=72
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1.246 libvmtools 10.3.5.7752

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>>> freebsd-base64-4.8

>>>

unicode-5.0

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base64.c -- routines to encode/decode base64 data

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

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1.247 popt 1.16

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1.248 pyparsing 2.4.2

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1.249 packaging 19.1

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1.250 jsonref 0.2

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1.251 cryptography 2.8

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1.252 xz 5.2.4

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1.254 core-js 2.5.5

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```
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1.266 libyaml 0.2.2

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1.267 simplegeneric 0.8.1

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Found in path(s):

* /simplegeneric-0-8-1-zip/simplegeneric-0.8.1/PKG-INFO

* /simplegeneric-0-8-1-zip/simplegeneric-0.8.1/simplegeneric.egg-info/PKG-INFO

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Development Status :: 6 - Mature

Development Status :: 7 - Inactive

Intended Audience :: Developers

License :: OSI Approved :: Zope Public License

Programming Language :: Python

Programming Language :: Python :: 2

Programming Language :: Python :: 2.4

Programming Language :: Python :: 2.5

Programming Language :: Python :: 2.6

Programming Language :: Python :: 2.7

Programming Language :: Python :: 3

Operating System :: OS Independent

Topic :: Software Development :: Libraries :: Python Modules

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* /simplegeneric-0-8-1-zip/simplegeneric-0.8.1/classifiers.txt

1.268 dhcp 4.4.1

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

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


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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:
- mode: sgml
- End:

-->

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1.269 fs.realpath 1.0.0

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1.270 evp_bytestokey 1.0.3

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1.271 backbone.radio 2.0.0

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1.272 randombytes 2.0.6

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1.273 bn.js 4.11.8

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1.274 hash.js 1.1.5

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1.275 string_decoder 1.1.1

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1.276 asn1.js 4.10.1

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1.277 object.assign 4.1.1

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1.278 des.js 1.0.0

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1.279 Idap-filters 2.2.2

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1.280 object.omit 2.0.1

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1.281 sha.js 2.4.11

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1.282 backbone.marionette 3.4.4

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1.288 start-stop-daemon 1.18.10

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1.291 docker-pycreds 0.4.0

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1.292 libevent 2.1.11

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1.293 fdisk 2.35.1

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1.295 python 3.8.2

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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		
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1.298 stunnel 5.56

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The

original code is FirewallControl.pas, released April 16, 2007.

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

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

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

```

<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', ' ')">

  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
    This Source Code Form is subject to the terms of the Mozilla Public
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
      <xsl:text>&#10;</xsl:text>
    </xsl:for-each>
    <xsl:value-of
      select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
 - mode: sgml
 - End:

-->

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1.300 sudo 1.8.31

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

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary

Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtislav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey

Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve

Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van

Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez,
Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian

Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.301 libnettle6 3.5.1

1.301.1 Available under license :

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1.302 jquery 3.5.1

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1.303 redis 5.0.7

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1.305 jsonschema 2.5.1

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1.306 pycparser 2.19

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1.307 pyasn1 0.1.9

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1.308 ntp 4.2.8p15

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1.314 bcrypt 3.2.0

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Any

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1.320 channels 2.3.1

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1.326 libglib 2.62.4

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

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

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

threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.327 libseccomp 2.4.1

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather

lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- *
- * M. Welsh, 6 July 1996
- *
- *
- * /

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1.333 python-blessed 1.17.5

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1.334 python-cached-property 1.4.3

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1.335 text-table 1.6.2

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1.337 zope-interface 4.6.0

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1.338 docker-containerd 1.2.12

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

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

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1.339 docker-proxy

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Protocol Buffers for Go with Gadgets

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1.340 docker-engine 19.03.5

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

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1.341 libatomic-ops 7.6.10

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1.344 setuptools-scm 3.3.3

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1.347 source-map 0.6.1

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1.348 postcss-modules-extract-imports 1.2.1

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```
/** @license URI.js v4.2.1 (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */
```

Found in path(s):

```
* /garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js
```

BSD-2-Clause

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

URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).

It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

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

API

Parsing

```
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

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

Resolving

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

Normalizing

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

Comparison

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

IP Support

//IPv4 normalization

```
URI.normalize("//192.068.001.000") === "//192.68.1.0"
```

//IPv6 normalization

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

//IPv6 zone identifier support

```
URI.parse("//[2001:db8::7%25en1]");
```

//returns:

```
//{
```

```
//  host : "2001:db8::7%en1"
```

```
//}
```

IRI Support

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

Options

All of

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

* ``scheme`` (string)

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

* ``reference`` (string)

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

* ``tolerant`` (boolean, false)

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

* ``absolutePath`` (boolean, false)

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

* ``iri`` (boolean, false)

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

* ``unicodeSupport`` (boolean, false)

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

* ``domainHost``
(boolean, false)

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

Scheme Extendable

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

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

HTTP Support

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

Mailto Support

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

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

```
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

URN Support

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

URN UUID Support

```
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:

```
<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:

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

If you are

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

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

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

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

Breaking changes

Breaking changes from 3.x

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

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

Breaking changes from 2.x

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

Breaking changes from 1.x

The `errors` array on parsed components is

now an `error` string.

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Found in path(s):

* /garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md

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```
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LS32$","IPV4ADDRESS$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","  
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```

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EAarVA,IAqV8BA,GAarV9B,GAqVyC,IAC3CU,GAAlV,GAACK,EAarVP,EAqVsBL,GAACK,EApV3B,GAAA,G
AoVgDL,EAAIK,KACxD4B,EAAlvB,WAGfWb,GAAUD,EAAlvB,EACdC,EA3VE,GA2VkBd,IACnB1J,KACN

kI,EAAMBO,EAAaiB,EAAIwB,EAAUvB,EAAY,OAEvD3B,EAAMkD,EAAUvB,KAGd3J,KAAKkI,EAAMBO,EAAawC,EAAG,OACxCrC,EAAMC,EAAOgC,EAAuBL,GAakBD,KACrD,IACNC,yFAIF3B,IACAO,QAGIzJ,GAO7D,KAAK,KAcDyK,EAAY,SAAST,SACnBzG,GAAUyG,EAAO,SAASxG,SACzBwI,GAAC1E,KAAK9D,GACvB4J,EAAO5J,EAAO3D,MAAM,GAAGgB,eACvB2C,KAeCgG,EAAU,SAASQ,SACjBzG,GAAUyG,EAAO,SAASxG,SACzByI,GAAC3E,KAAK9D,GACvB,OAASwK,EAAOxK,GACbBA,KAOC+F,WAMM,qBASA3F,SACaYI,UAEDe,SACAY,UACCxE,YACEiB,GC5VDrB,KA2IPN,EAAY,kIACZC,EAA4C,GAAI1D,MAAM,SAAU,KAAOhF,UAOhvE4J,EAAO,WACPC,EAAO,cACPC,GAAO,gBAEPE,GAAO,yBG1VPgF,WACI,mBAEI,QAEL,SAAUpK,EAA0BwD,SAEtCxD,GAAWW,SACJ7C,MAAQkC,EAAWlC,OAAS,+BAGjCkC,aAGI,SAAUA,EAA0BwD,SAE3CxD,GAAW+D,QAA5D,UAA5CpE,OAOK,EAAMW,QAAQ1E,cAA4B,GAAK,MAA4B,KAApBoE,EAAW+D,SAC3FA,KAAO3I,WAI4E,EAAWw,SACJA,KAAO,KAOZb,IC5BHOk,WACI,mBACIC,GAAKhG,iBACVgG,GAAG/G,gBACD+G,GAAG9E,WHSZ+E,MAIA5M,GAAe,mGACfnB,GAAW,cACXC,GAAexB,EAAOA,EAAO,sBAA6BuB,GAAWA,GAAW,IAAMA,GAAWA,IAAY,IAAMvB,EAAO,0BAAiCuB,GAAWA,IAAY,IAAMvB,EAAO,IAAMuB,GAAWA,KAehNgO,GAAU1Q,EADA,6DACe,aAqBzBgG,GAAa,GAAI1C,QAAOD,GAAc,KACtC6C,GAAc,GAAI5C,QAAOnB,GAAc,KACvCgO,GAAiB,GAAI7M,QAAOtD,EAAM,MAzBxB,wDAyBwC,QAAS,QAASKQ,IAAU,KAe9EE,GAAa,GAAI9M,QAAOtD,EAAM,MAAOqD,GAjBrB,uCAiBmD,KACnEgN,GAACd,GASdL,WACI,eAED,SAAUpK,EAA0BwD,MACrCmH,GAAmB3K,EACnB4K,EAAKD,EAAiBC,GAAMD,EAAiB9J,KAAO8J,EAAiB9J,KAAKpF,MAAM,aACrEoF,KAAOzF,UAEPBuP,EAAiB3J,MAAO,KAKtB,GAJD6J,IAAiB,EACfC,KACAC,EAAUJ,EAAiB3J,MAAMvF,MAAM,KAEPcX,EAAI,EAAGD,EAAKkQ,EAQpQ,OAQAG,EAAID,IAAMC,EAAG,IAC3CkQ,GAASD,EAAQjQ,GAAGW,MAAM,YAExBuP,EAAO,QACT,SAEC,GADCC,GAAUD,EAAO,GAAGvP,MAAM,KACvBX,EAAI,EAAGD,EAAKoQ,EAAQtQ,OAQAG,EAAID,IAAMC,IAC3CmE,KAAKgm,EAAQnQ,cAGb,YACaoQ,QAAUrE,EAAkBmE,EAAO,GAAIxH,aAEpD,SACa2H,KAAOE,EAAkBmE,EAAO,GAAIxH,oBAGpC,IACtQD,EAAkBmE,EAAO,GAAIxH,IAAYqD,EAAkBmE,EAAO,GAAIxH,IAK7EqH,IAAgBF,EAAiBG,QAAUA,KAG/B9J,MAAQ5F,cAEPB,GAAIN,GAAI,EAAGD,EAAK+P,EAAGjQ,OAQAG,EAAID,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UAEPB,GAAKoL,EAAkBuE,EAAK,IAE5B5H,EAAQY,iBAQP,GAAKyC,EAAkBuE,EAAK,GAAI5H,GAAS5H,yBALxC,GAAK0I,EAASC,QAAQsC,EAAkBuE,EAAK,GAAI5H,GAAS5H,eAC9D,MAAO4I,KACS1G,MAAQ6M,EAAiB7M,OAAS,2EAA6E0G,IAM/H1J,GAAKsQ,EAAKrQ,KAAK,WAGZ4P,cAGI,SAAUA,EAAmCnH,MACIDxD,GAAa2K,EACbC,EAAK9O,EAAQ6O,EAAiBC,OACbCA,EAAI,KACF,GAAI9P,GAAI,EAAGD,EAAK+P,EAAGjQ,OAQAG,EAAID,IAAMC,EAAG,IACtCuQ,GAAS1L,OA AOiL,EAAG9P,IACnBwQ,EAAQD,EAAOpF,YAAY,KAC3BsF,EAAaF,EAAOzQ,MAAM,EAAG0Q,GAAQ7M,QAAQ8B,GAAaL,GAAKBzB,QAAQ8B,GAAa1E,GAAa4C,QA AQ+L,GAAGbL,GACxIsM,EAASH,EAAOzQ,MAAM0Q,EAAQ,SAItB9H,EAAQC,IAA2Ea,EAASKb,UAAUGG,GAAxFlH,EAASC,QAAQsC,EAAkB2E,EAAQHl,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWlC,OAAS,wDAA2D0F,EAAQC,IAAgB,UAAV,SAAuB,kBAAoBe,IAGzJ1J,GAAKyQ,EAAY,IAAMC,IAGhB3K,KAAAO+J,EAAG7P,KAAK,QAGrB+P,GAAUH,EAAiBG,QAAUH,EAAiBG,WAExDH,GAAiBO,UAA5J,EAAA,QA AQBH,EAAiBO,SACheP,EAAiBQ,OAAML,EAAA,KAAkBH,EAAiBQ,SAExD3I,UACD,GAAMiJ,KAAQX,GACdA,EAAQW,KAAUnB,GAAEmB,MACHbXm,KACNwM,EAAKhN,QAAQ8B,GAAaL,GAAKBzB,QAAQ8B,GAAa1E,GAAa4C,QAAQgM,GAAYvL,GACIG,IACA4L,EAAQW,GAAMhN,QAAQ8B,GAAaL,GAAKBzB,QAAQ8B,GAAa1E,GAAa4C,QAAQiM,GAAaxL,UAI3GsD,GAAO7H,WACCqG,MAAQwB,EAAOZH,KAAK,MAGzBiF,II/JH0L,GAAY,kBAIZtB,WACI,YAED,SAAUpK,EAA0BwD,MACrClC,GAAUtB,EAAWw,MAAQb,EAAWw,KAAKT,MAAMsL,IACrDC,EAAgB3L,KAehBsB,EAAS,IACNhB,GAASKD,EAAQID,QAAUqL,EAAcrL,QAAU,MACnDsL,EAAMtK,EAAQ,GAAG1F,cACjBiQ,EAAMvK,EAAQ,GACdwK,EAAexL,EAAf,KAAyBkD,EAAQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,KAehBF,IAAMA,IACNC,IAAMA,IACNhL,KAAOzF,UAejB8I,MACaA,EAAcZ,MAAMqI,EAAenI,WAGtC1F,MAAQ6N,EAAc7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAA6BnI,MAC5CID,GAASKD,EAAQID,QAAUqL,EAAcrL,QAAU,MACnDsL,EAAMD,EAAcC,IACpBE,EAAexL,EAAf,KAAyBkD,EAAQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,EAE1B5H,OACaA,EAAcqB,UAAUoG,EAAenI,OAGIDuI,GAAGBJ,EACHBE,EAAMF,EAAcE,aACZhL,MAAU+K,GAAOpI,EAAQoI,KAAvC,IAA8CC,EAEvCE,ICxDHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAiBN,WACRO,KAAOD,EAAeJ,MACtBA,IAAMzQ,UAehBoI,EAAQwC,UAAciG,EAAeC,MAASD,EAAeC,KAAK9L,MAAM4L,QAC7DIO,MAAQ

[illegible]

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V"{0,4}\\" + L$32$, //[*4( h16 \":\") h16 ] \":\":"
ls32\n\t\tIPV6ADDRESS$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\")
+ H16$ ), //[ *5( h16 \":\":" ) h16 ] \":\":" h16\n\t\tIPV6ADDRESS$
= 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$) + \"?\"), //simplified\n\t\tPATH_NOSCHEMES$
= 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_NOSCHEMES$
+ \"|\" + 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(SCHEMES$ +
\"\\\\:\\\\:\" + HIER_PART$ + subexp(\"\\\\\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\\\\\#\" + FRAGMENT$) +
\"?\"), \n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\\\\\\\\\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEMES$ + \"|\" + PATH_EMPTY$), \n\t\tRELATIVES$ =
subexp(RELATIVE_PART$ + subexp(\"\\\\\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\\\\\#\" + FRAGMENT$) +
\"?\"), \n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVES$), \n\t\tABSOLUTE_URI$ =
subexp(SCHEMES$ + \"\\\\:\\\\:\" + HIER_PART$ + subexp(\"\\\\\\\\?\" + QUERY$) + \"?\"), \n\t\tGENERIC_REF$ =
\"^(\" + SCHEMES$ + \")\\\\:\\\\:\" + subexp(subexp(\"\\\\\\\\\\\\\\\\\" +
+ subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:\\\\:(\" + PORT$ + \")\" + \"?)\" +
\"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" +
PATH_EMPTY$ + \")\" + subexp(\"\\\\\\\\?(\" + QUERY$ + \")\" + \"?\" + subexp(\"\\\\\\\\#(\" + FRAGMENT$ + \")\" +
\"?$\", \n\t\tRELATIVE_REF$ = \"^({0}\" + subexp(subexp(\"\\\\\\\\\\\\\\\\\" + subexp(\"(\" + USERINFO$ + \")@\")
+ \"?(\" + HOST$ + \")\" + subexp(\"\\\\:\\\\:(\" + PORT$ + \")\" + \"?)\" + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEMES$ + \"|\" + PATH_EMPTY$ + \")\" + subexp(\"\\\\\\\\?(\" +
QUERY$ + \")\" + \"?\" + subexp(\"\\\\\\\\#(\" + FRAGMENT$ + \")\" + \"?$\", \n\t\tABSOLUTE_REF$ = \"^(\" +
SCHEMES$ + \")\\\\:\\\\:\" + subexp(subexp(\"\\\\\\\\\\\\\\\\\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ +
\")\" + subexp(\"\\\\:\\\\:(\" + PORT$ + \")\" + \"?)\" + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\" + subexp(\"\\\\\\\\?(\" +
QUERY$ + \")\" + \"?\"$\", \n\t\tSAMDOC_REF$ = \"^\" + subexp(\"\\\\\\\\#(\" + FRAGMENT$ + \")\" +
\"?$\", \n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" +

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subexp("\\\\\\\\(\\\" + PORT$ + '\\')\") + '\\'?$', \"\n\t;\n\n\treturn {\n\t\tNOT_USERINFO : new RegExp(merge(\"^[^]\",  
ALPHA$$, DIGIT$, \"[\\\\\\\\+\\\\\\\\-\\\\\\\\.]\"), \"g\"), \n\t\tNOT_HOST : new RegExp(merge(\"^[\\\\\\\\%\\\\\\\\[/\\\\\\\\/]\\\\\\\\:]\",  
UNRESERVED$, SUB_DELIMS$), \"g\"), \n\t\tNOT_PATH : new RegExp(merge(\"^[\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\@]\",  
UNRESERVED$, SUB_DELIMS$), \"g\"), \n\t\tNOT_PATH_NO_SCHEME : new  
RegExp(merge(\"^[\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\@]\", UNRESERVED$, SUB_DELIMS$), \"g\"), \n\t\tNOT_QUERY : new  
RegExp(merge(\"^[\\\\\\\\%]\", UNRESERVED$, SUB_DELIMS$, \"[\\\\\\\\:\\\\\\\\\\@\\\\\\\\\\\\\\\\\\\\?]\", IPPRIVATE$),  
\"g\"), \n\t\tNOT_FRAGMENT : new RegExp(merge(\"^[\\\\\\\\%]\", UNRESERVED$, SUB_DELIMS$,  
\"[\\\\\\\\:\\\\\\\\\\@\\\\\\\\\\\\\\\\\\\\?]\"), \"g\"), \n\t\tESCAPE  
  
: new RegExp(merge(\"^[ ]\", UNRESERVED$, SUB_DELIMS$), \"g\"), \n\t\tUNRESERVED : new  
RegExp(UNRESERVED$, \"g\"), \n\t\tOTHER_CHARS : new RegExp(merge(\"^[\\\\\\\\%]\", UNRESERVED$,  
RESERVED$, \"g\"), \n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"), \n\t\tIPV4_ADDRESS : new  
RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"), \n\t\tIPV6_ADDRESS : new RegExp(\"^(\\\\\\\\[(\" + IPV6ADDRESS$ +  
\\\\\\\\)\" + subexp(subexp(\"\\\\\\\\%25\\\\\\\\%(?!\" + HEXDIG$ + \"{2}\") + \"(\" + ZONEID$ + \"))\" + \"?\\\\\\\\]?.$\"))  
//RFC 6874, with relaxed parsing rules\n\t};\n\n\nexport default buildExps(false);\n,\"use strict';\n\n/** Highest  
positive signed 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n** Bootstring  
parameters *\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst  
initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\xD'\n\n** Regular expressions *\nconst  
regexUnicode = /^xn--;/;\nconst regexNonASCII  
= /[^\w0-\xE]/; // non-ASCII chars\nconst regexSeparators = /[\xE\u3002\uFF0E\uFF61]/g; // RFC 3490  
separators\n\n** Error messages *\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to  
process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'};\n\n\n** Convenience shortcuts *\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst  
stringFromCharCode = String.fromCharCode;\n\n/*-----*\n/\n\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns  
{Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new  
RangeError(errors[type]);\n}\n\n /** A generic `Array#map` utility function.\n * @private\n * @param {Array}  
array The array to iterate over.\n * @param {Function} callback The function that gets called for every  
array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction  
map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] =  
fn(array[length]);\n\t}\n\treturn result;\n}\n\n /** A simple `Array#map`-like wrapper to work with domain name  
strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n *  
@param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new  
string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts =  
string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be  
processed.  
\t\tLeave\n\t\tthe local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring =  
parts[1];\n\t\tAvoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring  
= string.replace(regexSeparators, '\xE');\n\t\tconst labels = string.split('.');\n\t\tconst encoded = map(labels,  
fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n /** Creates an array containing the numeric code points of each  
Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of  
surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching  
UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n *  
@memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *  
@returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet  
counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value =  
string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\tIt's a  
high
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surrogate, and there is a next character.\n\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push((((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000));\n\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.  
https://tools.ietf.org/html/rfc3492#section-3.4  
@private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tif (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\tfor (let j = 0; j < basic; ++j) {\n\t\tif it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\tthrow('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic\n\t// code points were copied; start at the beginning otherwise.\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\t\t`index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`, which\n\t\tgets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\t\t\tif (index >= inputLength) {\n\t\t\t\tthrow('invalid-input');\n\t\t\t}\n\t\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ttw *= baseMinusT;\n\t\t\tconst out = output.length + 1;\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\tincrementing `n` each time, so we'll fix that now:\n\t\t\t(floor(i / out) > maxInt - n) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ttn += floor(i / out);\n\t\t\ti %= out;\n\t\t\t// Insert `n` at position `i` of the output.\n\t\t\toutput.splice(i++, 0, n);\n\t\t}\n\t\treturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
```



```

a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of
Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode
= function(input) {\n\tconst output = [];\n\t// Convert the input in UCS-2 to an array of Unicode code
points.\n\tinput = ucs2decode(input);\n\t// Cache the length.\n\tlet inputLength = input.length;\n\t// Initialize the
state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\t// Handle the basic code points.\n\tfor (const
currentValue of input) {\n\t\tif (currentValue < 0x80)
{\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\tlet
basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\t// `handledCPCount` is the number of code
points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\t// Finish the basic string
with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\t// Main encoding
loop:\n\twhile (handledCPCount < inputLength) {\n\t\t// All non-basic code points < n have been handled already.
Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >=
n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\t\t// Increase `delta` enough to advance the
decoder's <n,i> state to <m,0>;\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne =
handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne))
{\n\t\t\tthrow('overflow');\n\t\t}\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tlet
m = m;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt)
{\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-
length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <=
bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst
qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base -
t;\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,
0)));\n\t\t\t\t\tq = floor(qMinusT /
baseMinusT);\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias = adapt(delta,
handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta =
0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t\t}\n\t\t\t\t\t++delta;\n\t\t\t\t\t++n;\n\t\t\t\t}\n\t\t\treturn output.join('');\n\t}\n}\n\n/**\n
* Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or
email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n
* string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexPunycode.test(string)\n\t\t? decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n}\n\n/**\n
* Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII
parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n
* ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as
a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email
address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexNonASCII.test(string)\n\t\t? 'xn--' + encode(string)\n\t\t: string;\n\t});\n}\n\n/-----
-----*\n\n/** Define the public API */\nconst punycode = {\n\t/**\n\t * A string
representing the current Punycode.js version number.\n\t */\n\tversion: '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t *
representation (UCS-2) to Unicode code points, and back.\n\t */\n\ttoASCII: toASCII,\n\ttoUnicode: toUnicode,\n\tdecode: decode,\n\tencode: encode,\n\tadapt: adapt,\n\tinitialBias: initialBias,\n\tinitialN: initialN,\n\tregexPunycode: regexPunycode,\n\tregexNonASCII: regexNonASCII,\n\tstringToPunycode: stringToPunycode,\n\tstringToUnicode: stringToUnicode,\n\tucs2decode: ucs2decode,\n\tucs2encode: ucs2encode,\n\tv: version\n}\n\nexport default punycode;\n\n", /**\n * URI.js\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 */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n * Redistribution and use in source and binary forms, with or

```

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```
import URI_PROTOCOL from './regexps-uri';
import IRI_PROTOCOL from './regexps-iri';
import punycode from 'punycode';

{ toUpperCase, typeOf, assign } from './util';

export interface URIComponents {
  scheme?: string;
  userinfo?: string;
  host?: string;
  port?: number | string;
  path?: string;
  query?: string;
  fragment?: string;
  reference?: string;
  error?: string;
}

export interface URIOptions {
  scheme?: string;
  reference?: string;
  tolerant?: boolean;
  absolutePath?: boolean;
  iri?: boolean;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}

export interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {
  parse(components: ParentComponents, options: Options): Components;
  serialize(components: Components, options: Options): ParentComponents;
  unicodeSupport?: boolean;
  domainHost?: boolean;
  absolutePath?: boolean;
}

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

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

export function pctEncChar(chr: string): string {
  const c = chr.charCodeAt(0);
  let e: string;
  if (c < 16) e = '%0' + c.toString(16).toUpperCase();
  else if (c < 128) e = '%' + c.toString(16).toUpperCase();
  else if (c < 2048) e = '%' + ((c >> 6) | 192).toString(16).toUpperCase() + '%' + ((c & 63) | 128).toString(16).toUpperCase();
  else e = '%' + ((c >> 12) | 224).toString(16).toUpperCase() + '%' + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + '%' + ((c & 63) | 128).toString(16).toUpperCase();
  return e;
}

export function pctDecChars(str: string): string {
  let newStr = '';
  let i = 0;
  const il = str.length;
  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);
    if (c < 128) {
      newStr += String.fromCharCode(c);
      i += 3;
    } else if (c >= 194 && c < 224) {
      if ((il - i) >= 6) {
        const c2 = parseInt(str.substr(i + 4, 2), 16);
        newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
        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));
          i += 9;
        } else {
          newStr += str.substr(i, 9);
          i += 9;
        }
      } else {
        newStr += str.substr(i, 3);
        i += 3;
      }
    } else {
      newStr += str;
      return newStr;
    }
  }
}

export function _normalizeComponentEncoding(components: URIComponents,
```

```

protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst
decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\t\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "\\");\n\t\tif (components userinfo !==
undefined) components userinfo = String(components userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOScheme), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\tif (components.query
!== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\tif (components.fragment !== undefined) components.fragment =
String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\treturn components;\n\t}\n\t\tfunction _stripLeadingZeros(str:string):string {\n\t\treturn
str.replace(/^0*(.*)/, "$1");\n\t}\n\t\tfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\t\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\t\tconst [, address] = matches;\n\t\t\tif (address)
{\n\t\t\t\treturn address.split(".").map(_stripLeadingZeros).join(".");\n\t\t\t} else {\n\t\t\t\treturn host;\n\t\t\t}\n\t\t}\n\t\tfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\t\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\t\tconst [,
address, zone] = matches;\n\t\t\tif (address) {\n\t\t\t\tconst [last, first] =
address.toLowerCase().split("::").reverse();\n\t\t\t\tconst firstFields = first ? first.split(":").map(_stripLeadingZeros) :
[];\n\t\t\t\tconst lastFields = last.split(":").map(_stripLeadingZeros);\n\t\t\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\t\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\t\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\t\t\tconst fields = Array<string>(fieldCount);\n\t\t\t\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\t\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";
\n\t\t\t\t\t\t\tif
(isLastFieldIPv4Address) {\n\t\t\t\t\t\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t\t\t\t\t}\n\t\t\t\t\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\t\t\t\t\t\tif (!field || field === "0") {\n\t\t\t\t\t\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\t\t\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\t\t\t\t\t\tlastLongest.length++;
\n\t\t\t\t\t\t\t\t\t} else
{\n\t\t\t\t\t\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\t\treturn acc;\n\t\t\t\t\t\t\t\t}, []);\n\t\t\t\t\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\t\t\t\t\tlet newHost:string;\n\t\t\t\t\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\t\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index);\n\t\t\t\t\t\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\t\t\t\t\tnewHost = newFirst.join(":") + ":" +
newLast.join(":");\n\t\t\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\t\tnewHost = fields.join(":");\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\tif (zone) {\n\t\t\t\t\t\t\t\t\tnewHost += "%" +
zone;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\treturn newHost;\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\treturn host;\n\t\t\t\t\t\t}\n\t\t\t}\n\t\t\tconst URI_PARSE =
/^((?:(?:[^\v?#]+):)?(?:\\v\\v((?:[^\v?#@]*@)?\\v\\v(?:[^\v?#\\v]+\\v\\v|\\v\\v(?:[^\v?#:])(?:\\v\\v\\d*))?)?(?:[^\v?#]*)(?:\\v\\v(?:[^\v?#])?(?:#(?:
(?:\\n|\\r))*))?)?|;)\n\t\t\tconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>("").match(/(){})/)[1]
=== undefined;\n\t\t\texport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\t\t\tconst
components:URIComponents = {};\n\t\t\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\t\t\t\tif (options.reference === "suffix") uriString = (options.scheme ? options.scheme + "://" :
"") + "/" + uriString;\n\t\t\t\tconst matches = uriString.match(URI_PARSE);\n\t\t\t\t\tif (matches) {\n\t\t\t\t\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t\t\t\t\t\tstore each component\n\t\t\t\t\t\t\t\tcomponents.scheme =
matches[1];\n\t\t\t\t\t\t\t\tcomponents userinfo = matches[3];\n\t\t\t\t\t\t\t\tcomponents.host = matches[4];\n\t\t\t\t\t\t\t\tcomponents.port =

```

[illegible]

[illegible]

```

resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
  const schemelessOptions = assign({
    scheme: 'null' }, options);
  return serialize(resolveComponents(parse(baseURI, schemelessOptions),
    parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);
}

export function normalize(uri:string, options?:URIOptions):string;
export function normalize(uri:URISchemelessOptions, options?:URIOptions):URISchemelessOptions;
export function normalize(uri:any, options?:URIOptions):any {
  if (typeof uri === 'string') {
    uri = serialize(parse(uri, options), options);
  } else if (typeof uri === 'object') {
    uri = parse(serialize(<URISchemelessOptions>uri,
      options), options);
  }
  return uri;
}

export function equal(uriA:string, uriB:string, options?:URIOptions):boolean;
export function equal(uriA:URISchemelessOptions, uriB:URISchemelessOptions, options?:URIOptions):boolean;
export function equal(uriA:any, uriB:any, options?:URIOptions):boolean {
  if (typeof uriA === 'string') {
    uriA = serialize(parse(uriA, options), options);
  } else if (typeof uriA === 'object') {
    uriA = serialize(<URISchemelessOptions>uriA, options);
  }
  if (typeof uriB === 'string') {
    uriB = serialize(parse(uriB, options), options);
  } else if (typeof uriB === 'object') {
    uriB = serialize(<URISchemelessOptions>uriB, options);
  }
  return uriA === uriB;
}

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

export function unescapeComponent(str:string, options?:URIOptions):string {
  return str && str.toString().replace(/([!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED]), pctDecChars);
}

import { URISchemeHandler, URISchemelessOptions, URIOptions } from './uri';
import { pctEncChar, pctDecChars, unescapeComponent } from './uri';
import punycode from 'punycode';
import { merge, subexp, toUpperCase, toArray } from './util';

export interface MailtoHeaders {
  [hfname:string]:string;
}

export interface MailtoComponents extends URISchemelessOptions {
  to:Array<string>;
  headers?:MailtoHeaders;
  subject?:string;
  body?:string;
}

const O:MailtoHeaders = {};
const isIRI = true;
const RFC_3986_UNRESERVED$ = '[-!$%&\'*+./:;=?@_~\u0020\u0021-\u0022\u0023\u0024\u0025\u0026\u0027\u0028\u0029\u002a\u002b\u002c\u002d\u002e\u002f\u0030\u0031\u0032\u0033\u0034\u0035\u0036\u0037\u0038\u0039\u0041\u0042\u0043\u0044\u0045\u0046\u0047\u0048\u0049\u004a\u004b\u004c\u004d\u004e\u004f\u0050\u0051\u0052\u0053\u0054\u0055\u0056\u0057\u0058\u0059\u0061\u0062\u0063\u0064\u0065\u0066\u0067\u0068\u0069\u006a\u006b\u006c\u006d\u006e\u006f\u0070\u0071\u0072\u0073\u0074\u0075\u0076\u0077\u0078\u0079\u007a\u007b\u007c\u007d\u007e\u007f\u0080\u0081\u0082\u0083\u0084\u0085\u0086\u0087\u0088\u0089\u008a\u008b\u008c\u008d\u008e\u008f\u0090\u0091\u0092\u0093\u0094\u0095\u0096\u0097\u0098\u0099\u009a\u009b\u009c\u009d\u009e\u009f\u00a0\u00a1\u00a2\u00a3\u00a4\u00a5\u00a6\u00a7\u00a8\u00a9\u00aa\u00ab\u00ac\u00ad\u00ae\u00af\u00b0\u00b1\u00b2\u00b3\u00b4\u00b5\u00b6\u00b7\u00b8\u00b9\u00ba\u00bb\u00bc\u00bd\u00be\u00bf\u00c0\u00c1\u00c2\u00c3\u00c4\u00c5\u00c6\u00c7\u00c8\u00c9\u00ca\u00cb\u00cc\u00cd\u00ce\u00cf\u00d0\u00d1\u00d2\u00d3\u00d4\u00d5\u00d6\u00d7\u00d8\u00d9\u00da\u00db\u00dc\u00dd\u00de\u00df\u00e0\u00e1\u00e2\u00e3\u00e4\u00e5\u00e6\u00e7\u00e8\u00e9\u00ea\u00eb\u00ec\u00ed\u00ee\u00ef\u00f0\u00f1\u00f2\u00f3\u00f4\u00f5\u00f6\u00f7\u00f8\u00f9\u00fa\u00fb\u00fc\u00fd\u00fe\u00ff\u0100\u0101\u0102\u0103\u0104\u0105\u0106\u0107\u0108\u0109\u010a\u010b\u010c\u010d\u010e\u010f\u0110\u0111\u0112\u0113\u0114\u0115\u0116\u0117\u0118\u0119\u011a\u011b\u011c\u011d\u011e\u011f\u0120\u0121\u0122\u0123\u0124\u0125\u0126\u0127\u0128\u0129\u012a\u012b\u012c\u012d\u012e\u012f\u0130\u0131\u0132\u0133\u0134\u0135\u0136\u0137\u0138\u0139\u013a\u013b\u013c\u013d\u013e\u013f\u0140\u0141\u0142\u0143\u0144\u0145\u0146\u0147\u0148\u0149\u014a\u014b\u014c\u014d\u014e\u014f\u0150\u0151\u0152\u0153\u0154\u0155\u0156\u0157\u0158\u0159\u015a\u015b\u015c\u015d\u015e\u015f\u0160\u0161\u0162\u0163\u0164\u0165\u0166\u0167\u0168\u0169\u016a\u016b\u016c\u016d\u016e\u016f\u0170\u0171\u0172\u0173\u0174\u0175\u0176\u0177\u0178\u0179\u017a\u017b\u017c\u017d\u017e\u017f\u0180\u0181\u0182\u0183\u0184\u0185\u0186\u0187\u0188\u0189\u018a\u018b\u018c\u018d\u018e\u018f\u0190\u0191\u0192\u0193\u0194\u0195\u0196\u0197\u0198\u0199\u019a\u019b\u019c\u019d\u019e\u019f\u01a0\u01a1\u01a2\u01a3\u01a4\u01a5\u01a6\u01a7\u01a8\u01a9\u01aa\u01ab\u01ac\u01ad\u01ae\u01af\u01b0\u01b1\u01b2\u01b3\u01b4\u01b5\u01b6\u01b7\u01b8\u01b9\u01ba\u01bb\u01bc\u01bd\u01be\u01bf\u01c0\u01c1\u01c2\u01c3\u01c4\u01c5\u01c6\u01c7\u01c8\u01c9\u01ca\u01cb\u01cc\u01cd\u01ce\u01cf\u01d0\u01d1\u01d2\u01d3\u01d4\u01d5\u01d6\u01d7\u01d8\u01d9\u01da\u01db\u01dc\u01dd\u01de\u01df\u01e0\u01e1\u01e2\u01e3\u01e4\u01e5\u01e6\u01e7\u01e8\u01e9\u01ea\u01eb\u01ec\u01ed\u01ee\u01ef\u01f0\u01f1\u01f2\u01f3\u01f4\u01f5\u01f6\u01f7\u01f8\u01f9\u01fa\u01fb\u01fc\u01fd\u01fe\u01ff\u0200\u0201\u0202\u0203\u0204\u0205\u0206\u0207\u0208\u0209\u020a\u020b\u020c\u020d\u020e\u020f\u0210\u0211\u0212\u0213\u0214\u0215\u0216\u0217\u0218\u0219\u021a\u021b\u021c\u021d\u021e\u021f\u0220\u0221\u0222\u0223\u0224\u0225\u0226\u0227\u0228\u0229\u022a\u022b\u022c\u022d\u022e\u022f\u0230\u0231\u0232\u0233\u0234\u0235\u0236\u0237\u0238\u0239\u023a\u023b\u023c\u023d\u023e\u023f\u0240\u0241\u0242\u0243\u0244\u0245\u0246\u0247\u0248\u0249\u024a\u024b\u024c\u024d\u024e\u024f\u0250\u0251\u0252\u0253\u0254\u0255\u0256\u0257\u0258\u0259\u025a\u025b\u025c\u025d\u025e\u025f\u0260\u0261\u0262\u0263\u0264\u0265\u0266\u0267\u0268\u0269\u026a\u026b\u026c\u026d\u026e\u026f\u0270\u0271\u0272\u0273\u0274\u0275\u0276\u0277\u0278\u0279\u027a\u027b\u027c\u027d\u027e\u027f\u0280\u0281\u0282\u0283\u0284\u0285\u0286\u0287\u0288\u0289\u028a\u028b\u028c\u028d\u028e\u028f\u0290\u0291\u0292\u0293\u0294\u0295\u0296\u0297\u0298\u0299\u029a\u029b\u029c\u029d\u029e\u029f\u02a0\u02a1\u02a2\u02a3\u02a4\u02a5\u02a6\u02a7\u02a8\u02a9\u02aa\u02ab\u02ac\u02ad\u02ae\u02af\u02b0\u02b1\u02b2\u02b3\u02b4\u02b5\u02b6\u02b7\u02b8\u02b9\u02ba\u02bb\u02bc\u02bd\u02be\u02bf\u02c0\u02c1\u02c2\u02c3\u02c4\u02c5\u02c6\u02c7\u02c8\u02c9\u02ca\u02cb\u02cc\u02cd\u02ce\u02cf\u02d0\u02d1\u02d2\u02d3\u02d4\u02d5\u02d6\u02d7\u02d8\u02d9\u02da\u02db\u02dc\u02dd\u02de\u02df\u02e0\u02e1\u02e2\u02e3\u02e4\u02e5\u02
```

```
DOMAIN$ = subexp(DOT_ATOM_TEXT$ + '|' + '\\\\[\\\\|DTEXT_NO_OBS$$ + '*' + '\\\\]\\\\');\nconst\nLOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + '|' + QUOTED_STRING$);\nconst ADDR_SPEC$ =\nsubexp(LOCAL_PART$ + '\\\\@' + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp('\\\\\\\\,' +\nADDR_SPEC$) + '*\\\\');\nconst HFNAME$ = subexp(QCHAR$ + '*\\\\');\nconst HFVALUE$ =\nHFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + '\\\\=\\\\' + HFVALUE$);\nconst HFIELDS2$ =\nsubexp(HFIELD$ + subexp('\\\\\\\\&' + HFIELD$) + '*\\\\');\nconst HFIELDSD$ = subexp('\\\\\\\\?\\\\' +\nHIELDS2$);\nconst MAILTO_URI = new RegExp('^mailto\\\\\\\\:' + TO$ + '?' + HIELDS$ + '?$\\\\');\nconst\nUNRESERVED = new RegExp(UNRESERVED$, 'g');\nconst PCT_ENCODED = new\nRegExp(PCT_ENCODED$, 'g');\nconst NOT_LOCAL_PART = new RegExp(merge('[^]', ATEXT$$,\n'[\\\\\\\\.]', '[\\\\\\\\]', VCHAR$$), 'g');\nconst NOT_DOMAIN = new RegExp(merge('[^]', ATEXT$$, '[\\\\\\\\.]',\n'[\\\\\\\\]', DTEXT_NO_OBS$, '[\\\\\\\\]\\\\'), 'g');\nconst NOT_HFNAME = new RegExp(merge('[^]',\nUNRESERVED$, SOME_DELIMSS$), 'g');\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new\nRegExp('^\\\\' + TO$ + '$\\\\');\nconst HFIELDS = new RegExp('^\\\\' + HIELDS2$ + '$\\\\');\nfunction\ndecodeUnreserved(str:string):string {\nconst decStr = pctDecChars(str);\nreturn (!decStr.match(UNRESERVED)\n? str : decStr);\n}\nconst handler:URISchemeHandler<MailtoComponents> = {\nscheme : 'mailto',\nparse :\nfunction (components:URIComponents, options:URIOptions):MailtoComponents {\nconst mailtoComponents =\ncomponents as MailtoComponents;\nconst to = mailtoComponents.to = (mailtoComponents.path ?\nmailtoComponents.path.split(',') : []);\nconst mailtoComponents.path = undefined;\nconst\n(mailtoComponents.query) {\nlet unknownHeaders = false;\nconst headers:MailtoHeaders = {};\nconst\nhfields = mailtoComponents.query.split('&');\nfor (let x = 0, xl = hfields.length; x < xl; ++x) {\nconst\nhfield = hfields[x].split('=');\ntswitch (hfield[0])\n{\ncase 'to':\nconst toAddrs = hfield[1].split(',');\nfor (let x = 0, xl = toAddrs.length; x\n< xl; ++x) {\nto.push(toAddrs[x]);\ntbreak;\ncase\n'subject':\nmailtoComponents.subject = unescapeComponent(hfield[1],\noptions);\ntbreak;\ncase 'body':\nmailtoComponents.body =\unescapeComponent(hfield[1], options);\ntbreak;\ndefault:\nunknownHeaders =\true;\nheaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],\noptions);\ntbreak;\t}\t}\tif (unknownHeaders) mailtoComponents.headers =\nheaders;\t}\nmailtoComponents.query = undefined;\nfor (let x = 0, xl = to.length; x < xl; ++x)\n{\ntconst addr = to[x].split('@');\ntaddr[0] = unescapeComponent(addr[0]);\ntif\n(!options.unicodeSupport) {\nt//convert Unicode IDN ->\nASCII IDN\ttry {\ntaddr[1] = punycode.toASCII(unescapeComponent(addr[1],\noptions).toLowerCase());\t} catch (e) {\ntmailtoComponents.error = mailtoComponents.error || 'Email\naddress's domain name can not be converted to ASCII via punycode: \'' + e;\t}\t} else {\ntaddr[1] =\unescapeComponent(addr[1], options).toLowerCase();\t}\t}\tto[x] = addr.join('@');\t}\t}\treturn\nmailtoComponents;\t},\nserialize : function (mailtoComponents:MailtoComponents,\noptions:URIOptions):URIComponents {\nconst components = mailtoComponents as URIComponents;\nconst\nto = toArray(mailtoComponents.to);\ntif (to) {\nfor (let x = 0, xl = to.length; x < xl; ++x) {\ntconst\ntoAddr = String(to[x]);\ntconst atIdx = toAddr.lastIndexOf('@');\ntconst localPart = (toAddr.slice(0,\natIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,\ntoUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\ntlet\ndomain = toAddr.slice(atIdx + 1);\n//convert IDN via punycode\ttry {\ntdomain = (!options.iri ?\npunycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\t}\t}\tcatch (e) {\ntcomponents.error = components.error || 'Email address's domain name can not be converted to\n'\n+ (!options.iri ? 'ASCII' : 'Unicode') + '\nvia punycode: \'' + e;\t}\t}\t}\tto[x] = localPart + '@' +\ndomain;\t}\t}\tcomponents.path = to.join(',');\t}\t}\tconst headers = mailtoComponents.headers =\nmailtoComponents.headers || {};\nconst\n(mailtoComponents.subject) headers['subject'] =\nmailtoComponents.subject;\ntif (mailtoComponents.body) headers['body'] =
```

[illegible]

1.352 css-selector-tokenizer 0.7.1

1.352.1 Available under license :

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1.353 json-schema-traverse 0.4.1

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1.354 fast-json-stable-stringify 2.0.0

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1.355 postcss-modules-values 1.3.0

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1.356 regexpu-core 1.0.0

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1.357 postcss-modules-local-by-default 1.2.0

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1.358 postcss-modules-scope 1.1.0

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1.359 ansi-styles 3.2.1

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1.360 color-name 1.1.3

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1.361 color-convert 1.9.1

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1.362 docopt 0.6.2

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1.363 python-dateutil 2.8.1

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dateutil - Extensions to the standard Python datetime module.

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1.364 python3-asn1crypto 0.24.0

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1.367 idna 2.8

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

import io, sys

from setuptools import setup

def main():

python_version = sys.version_info[:2]

if python_version < (2,7):

raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}

exec(open('idna/package_data.py').read(), package_data)

arguments = {

'name': 'idna',

'packages': ['idna'],

'version': package_data['__version__'],

'description': 'Internationalized Domain Names in Applications (IDNA)',

'long_description': io.open("README.rst", encoding="UTF-8").read(),

'author': 'Kim Davies',

'author_email': 'kim@cynosure.com.au',

'license': 'BSD-like',

'url': 'https://github.com/kjd/idna',

'classifiers': [

'Development Status :: 5 - Production/Stable',

'Intended Audience :: Developers',

'Intended Audience :: System Administrators',

'License :: OSI Approved :: BSD License',

'Operating System :: OS Independent',

'Programming Language :: Python',

'Programming Language :: Python :: 2',

'Programming Language :: Python :: 2.7',

'Programming Language :: Python :: 3',

'Programming Language :: Python :: 3.4',

```

'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

1.368 python-setuptools 41.4.0

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1.369 ajv 6.10.0

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1.372 pygments 2.2.0

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1.373 incremental 17.5.0

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1.375 pyhamcrest 1.9.0

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1.379 schema-utils 0.4.7

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1.386 python-setuptools 41.2.0

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1.388 lodash 4.17.4

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1.389 pyasn1-modules 0.2.2

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1.390 gojsonpointer

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1.397 pyrsistent 0.15.6

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1.399 css-loader 1.0.1

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1.400 css-selector-tokenizer 0.7.0

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1.401 coreutils 8.31

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1.402 expat 2.2.9

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17.

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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WEV @@ WEV[B "1

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI

A0mImImI...

lost+found...

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 */

```

1.404 glib 2.62.4-1~ubuntu19.10.2

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1.405 mpdecimal 2.4.2

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1.409 python-dateutil 2.7.3-1.ph3

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.413 pcre 8.44

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Written by: Philip Hazel
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1.414 libxml 2.9.10

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1.415 cryptography 3.3.2

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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/opentype.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_useful.py
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/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/native/decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/der/encoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/base.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/test_encoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/cer/test_encoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/test_decoder.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/compat/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/tag.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_char.py
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/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/dateandtime.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/constraint.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/setup.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/binary.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/der/decoder.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/error.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/debug.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/__main__.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/test_decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/cer/encoder.py

```

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ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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[![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
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

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

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

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

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

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

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

How to get pyasn1

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

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.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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.. _license:

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=====

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

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ASN.1 library for Python

=====

```
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    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

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

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

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <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

.. toctree::

:maxdepth: 2

/download

Changes

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

..

toctree::

:maxdepth: 1

/changelog

License

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.. toctree::

:maxdepth: 2

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Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_` mailing list archive.

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
- * `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` _ by Prof John Larmouth

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

- * `ITU standards
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` _

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

- * `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` _ by Burton S. Kaliski

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

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1.417 lxml 4.6.3

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1.418 pystache 0.5.4

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1.419 python-certifi 2019.11.28

1.419.1 Available under license :

This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.420 msgpack 0.6.2

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1.421 python-certifi 2019.9.11

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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1.422 python3-asn1crypto 0.24.0-1.ph3

1.422.1 Available under license :

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1.423 pem 21.1.0

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1.424 urllib3 1.25.3

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* 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
- * Benjamin 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 <tomecek@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@gmail.com>
- * Bugfix related to reusing connections in indeterminate states.
- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency

improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>

* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>

* Various character-encoding fixes/tweaks

* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>

* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>

* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>

* History list to Retry object.

* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>

* Ensure timeouts are not booleans and greater than zero.

* Fixed infinite loop in ``stream`` when amt=None.

* Added length_remaining to determine remaining data to be read.

* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>

* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>

* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>

* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>

* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>

* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>

* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>

* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>

* Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.
- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.425 python-requests 2.22.0

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1.426 urllib3 1.25.6

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.
- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site
- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>

* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

1.427 python-pip 19.3.1

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes

3.2	3.1	2011	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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2.1.3				
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2.2.1	2.2	2002	PSF	yes
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>
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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE

=====

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.430 attrs 19.3.0

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1.431 python-requests 2.21.0

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1.432 pyopenssl 19.1.0

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1.433 wewidth 0.1.7-2.ph3

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1.434 xlwt 1.3.0

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1.436 urllib3 1.24.2

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Contributions to the urllib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

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
- * Benjamin 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@gmail.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]

1.437 cyrus-sasl 2.1.27

1.437.1 Available under license :

```

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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1.440 loader-utils 1.2.3

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1.442 celery 4.3.0

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Every contribution to Celery is as important to us,
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The first commit to the Celery codebase was made on
Fri Apr 24 13:30:00 2009 +0200, and has since
then been improved by many contributors.

Everyone who have ever contributed to Celery should be in
this list, but in a recent policy change it has been decided

that everyone must add themselves here, and not be added by others, so it's currently incomplete waiting for everyone to add their names.

The list of authors added before the policy change can be found in docs/AUTHORS.txt.

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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

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

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1.444 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.

A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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1.445 chardet 3.0.4-2.ph4

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

Section 6 states terms for distribution of such executables.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- a) Accompany the work with the complete corresponding machine-readable

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1.446 pyopenssl 19.1.0-2.ph4

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1.447 constantly 15.1.0-3.ph4

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

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1.450 docopt 0.6.2-3.ph4

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1.451 packaging 16.8-4.ph2

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1.452 python3-asn1crypto 1.2.0

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1.454 pexpect 4.6.0

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1.455 blessed 1.17.5

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1.456 pyasn1-modules 0.2.2-1.ph3

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1.461 cffi 1.13.1

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1.464 openpyxl 2.5.6

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1.465 python-ldap 3.1.0

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1.466 django-rest-framework 3.8.2

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package licensing

```
import (  
  "context"  
  "crypto/hmac"  
  "crypto/sha256"  
  "encoding/base64"  
  "encoding/json"  
  "fmt"  
  "time"  
  
  "github.com/docker/libtrust"  
  "github.com/docker/licensing/lib/errors"
```



```

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

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

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

    return license, nil
}

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

    authorization, err := c.getAuthorization(ctx,
        license)
    if err != nil {
        return nil, err
    }

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

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

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

```

```

    })
}

key := keys[0]

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

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

checkRes := new(model.CheckResponse)

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

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

return checkRes, nil
}

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

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

```

```

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

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

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

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

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

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

    return nil
}

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

```

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

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

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

```
type CheckResponse struct {  
    Expiration    time.Time `json:"expiration"`  
    Token         string   `json:"token"`  
    MaxEngines    int      `json:"maxEngines"`  
    ScanningEnabled bool     `json:"scanningEnabled"`  
    Type          string   `json:"licenseType"`  
    Tier          string   `json:"tier"`  
}
```

// IssuedLicense represents an issued license

```
type IssuedLicense struct {  
    KeyID        string `json:"key_id"`  
    PrivateKey   string `json:"private_key"`  
    Authorization string `json:"authorization"`  
}
```

// Valid returns true if the License is syntactically valid, false otherwise

```
func (l *IssuedLicense) Valid() (bool, string) {  
    if l.KeyID == "" {
```

```

return false, "empty key_id"
}

if l.PrivateKey == "" {
return false, "empty private_key"
}

if l.Authorization == "" {
return false, "empty authorization"
}

return true, ""
}

```

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package engine

```
import (  
    "time"
```

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

```
const (  
    defaultSubscriptionsTableFormat = "table  
{ {.Num} }\t{ {.Owner} }\t{ {.ProductID} }\t{ {.Expires} }\t{ {.ComponentsString} }"  
    defaultSubscriptionsQuietFormat = "{ {.Num} }:{ {.Summary} }"
```

```
numHeader          = "NUM"  
ownerHeader        = "OWNER"  
licenseNameHeader  = "NAME"  
idHeader           = "ID"  
dockerIDHeader     = "DOCKER ID"  
productIDHeader    = "PRODUCT ID"  
productRatePlanHeader = "PRODUCT RATE PLAN"  
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"  
startHeader        = "START"
```

```

expiresHeader      = "EXPIRES"
stateHeader        = "STATE"
eusaHeader         = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

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

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

```

```

    "State":      stateHeader,
    "Eusa":      eusaHeader,
    "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

```

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Support for streaming Protocol Buffer messages for the Go language (golang).

https://github.com/matttproud/golang_protobuf_extensions

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Protocol Buffers for Go with Gadgets

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

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package engine

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"
```

```
"github.com/docker/licensing/model"
"gotest.tools/assert"
is "gotest.tools/assert/cmp"
)
```

```
func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context formatter.Context
expected string
}{
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
formatter.Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM          OWNER          PRODUCT ID    EXPIRES          PRICING COMPONENTS
1            owner1          productid1    2020-01-01 10:00:00 +0000 UTC  compstring
2
            owner2          productid2    2020-01-01 10:00:00 +0000 UTC  compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
```



```

`,
},
// Raw Format
{
    formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
    `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
    `license: id1
license: id2
`,
},
// Custom Format
{
    formatter.Context{Format: NewSubscriptionsFormat("{ {.Owner} }", false)},
    `owner1
owner2
`,
},
}

expiration,
_ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",

```

```

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

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{

```

```

    &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 10,
    },
},
ComponentsString: "compstring",
},
{
    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID: "id2",
        Name: "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name:
"nodes",
                Value: 20,
            },
        },
        ComponentsString: "compstring",
    },
}
expectedJSONs := []map[string]interface{}{
{
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(10),
        },
    },
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",

```

```

"Summary":      "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
  "Owner":      "owner2",
  "ComponentsString": "compstring",
  "Expires":    "2020-01-01T10:00:00Z",
  "DockerID":   "",
  "Eusa":      nil,
  "ID":        "id2",
  "Start":     nil,
  "Name":      "name2",
  "Num":       float64(2),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(20),
    },
  },
  "ProductID":   "productid2",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State":      "",
  "Summary":    "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

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

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner:
      "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{}

```

```

err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

```

1.468 python-dateutil 2.8.1-2.ph4

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1.469 python-certifi 2019.09.11

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) \$RCSfile: certdata.txt,v \$

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1.470 python-certifi 2019.06.16

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>>> freebsd-base64-4.8

>>> unicode-5.0

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base64.c -- routines to encode/decode base64 data

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

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1.478 parse-asn1 5.1.1

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ISC

1.479 python-certifi 2019.11.28

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.480 supports-color 5.3.0

1.480.1 Available under license :

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1.481 remove-trailing-separator 1.1

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1.482 procps 3.3.15

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1.483 wewidth 0.1.7

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1.485 squashfs-tools 4.4

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1.486 golang 1.13.8

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# This is the official list of people who can contribute
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# lists people. For example, Google employees are listed here
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# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
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#   http://code.google.com/legal/individual-cla-v1.0.html
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#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized
# as the
# same person when interacting with Gerrit.

# Please keep the list sorted.
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(For example, a function in a library to compute square roots has

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Any executables

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

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Ty Coon, President of Vice

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1.506 python-setuptools 40.2.0.post20220315

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1.507 zlib 1.2.11

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

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.508 futures 3.3.0

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1.509 pyyaml 3.13

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1.510 packaging 16.8

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1.512 cssesc 0.1.0

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