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1.394 css-selector-tokenizer 0.7.0
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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

```
License
```

```
MIT Â© [Sindre Sorhus](http://sindresorhus.com)
```

## 1.8 supports-color 2.0.0

### 1.8.1 Available under license :

```
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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1.12 syslinux 6.03

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* This file is part of the lwIP TCP/IP stack.

*

* Author: Adam Dunkels <adam@sics.se>

*

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
June 26, 2010

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1.13 browserify-rsa 4.0.1

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1.14 python-backports-ssl-match-hostname

3.5.0.1

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1.15 fastclick 1.0.6

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1.16 backbone 1.3.3

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1.17 backbone-computedfields 0.0.12

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```

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1.18 backgrid-filter 0.3.7

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1.19 inflight 1.0.6

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1.27 json5 0.5.1

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1.28 xmltodict 0.11.0

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1.29 appdirs 1.4.3

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1.30 strict-rfc3339 0.7

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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1.50 chokidar 1.7.0

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1.51 source-map-support 0.4.18

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1.52 set-immediate-shim 1.0.1

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1.53 safe-buffer 5.1.1

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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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1.61 preserve 0.2.0

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1.62 debug 2.6.9

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1.63 escape-string-regexp 1.0.5

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1.64 path-is-absolute 1.0.1

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1.66 expand-range 1.8.2

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1.67 extglob 0.3.2

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1.68 parse-glob 3.0.4

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1.69 normalize-path 2.1.1

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1.70 ms 2.0.0

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1.72 micromatch 2.3.11

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1.89 ifupdown 0.8.16

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1.164 crypto-browserify 3.12.0

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1.165 brace-expansion 1.1.11

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1.166 process-nextick-args 2.0.0

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1.168 source-map 0.5.7

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1.169 coverage 4.3.4

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

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

/*!
* VERSION: 1.2.0
* DATE: 2017-01-17
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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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* VERSION: beta 1.5.3
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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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* @author: Jack Doyle, jack@greensock.com  
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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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* @author: Jack Doyle, jack@greensock.com  
*/
```

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

1

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1.188 netlink

dbc72376c86301bb873c332830857e73c9f701e

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1.189 gojsonreference

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1.200 create-ecdh 4.0.3

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1.201 create-hash 1.2.0

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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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1.231 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 json-c 0.99.8

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1.239 lua-cjson 2.1.0

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1.240 gmp 6.1.2

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1.241 net-tools 2.10

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1.242 ncurses 6.1

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This package is used for testing builds of ncurses.

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

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

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

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

Files: *

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-- vile:txtmode fc=72

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1.243 libvmtools 10.3.5.7752

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1.246 pyparsing 2.4.2

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1.253 python-dockerpty 0.4.1

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```

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1.267 libyaml 0.2.2

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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.

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-- $Id$ -->

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

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

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

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
    This Source Code Form is subject to the terms of the Mozilla Public
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$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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1.272 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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1.287 soundex 0.2.1

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1.288 start-stop-daemon 1.18.10

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1.293 fdisk 2.35.1

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1.294 libffi 3.3

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

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

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

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	from			compatible? (1)

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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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<!-- 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>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
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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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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.

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Adler, Mark
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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
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Faigon, Ariel
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Fobes, Steve
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Krause, David
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Lobbess, Phillip E.
McIntyre, Jason
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McLaughlin, Tom
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Mueller, Andreas
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Pasteleurs, Frederic
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Peschel, Aaron
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

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Chornoivan, Yuri
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1.302 jquery 3.5.1

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1.303 redis 5.0.7

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1.304 pyasn1 0.4.4

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1.306 pycparser 2.19

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36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code
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 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.315 paramiko 2.7.2

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1.316 asgiref 3.2.3

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1.318 cached-property 1.5.1

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1.319 channels 2.3.1

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1.320 channels-redis 2.4.2

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1.324 hiredis 0.2.0

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

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

*

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

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

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

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

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

* and spelling mistakes.

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

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

* re-established. (put back CFG_PHYIE)

*

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

*

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

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

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

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

* expects the Linux ATM stack to support scatter-gather

lists

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

*

* Implementing minimal-copy of received data:

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

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- * /

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1.331 psycopg 2.8.4

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1.332 python-blessed 1.17.5

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1.336 zope-interface 4.6.0

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1.337 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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1.339 docker-engine 19.03.5

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

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1.341 libfastjson 0.99.8

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1.342 setuptools-scm 3.3.3

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1.343 fast-deep-equal 2.0.1

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1.344 isarray 1.0.0

1.344.1 Available under license :

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1.345 source-map 0.6.1

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1.346 postcss-modules-extract-imports 1.2.1

1.346.1 Available under license :

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1.347 has-flag 3.0.0

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1.348 uri-js 4.2.2

1.348.1 Available under license :

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

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

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URI.js

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

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

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

API

Parsing

```
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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```
{"version":3,"sources":["../../src/util.ts","../../src/regexps-  
uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/uri.ts","../../src/schemes/mailto.ts","../../src/regexps-  
iri.ts","../../src/schemes/http.ts","../../src/schemes/https.ts","../../src/schemes/urn.ts","../../src/schemes/urn-  
uuid.ts","../../src/index.ts"],"names":["merge","sets","Array","_len","_key","arguments","length","slice","xl","x","joi  
n","subexp","str","typeof","o","undefined","Object","prototype","toString","call","split","pop","shift","toLowerCas  
e","toUpperCase","toArray","obj","setInterval","assign","target","source","key","buildExps","isIRI","HEXDIG$$","  
PCT_ENCODED$","SUB_DELIMS$$","RESERVED$$","UCSCHAR$$","DEC_OCTET_RELAXED$","H16$","  
LS32$","IPV4ADDRESS$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","  
IPV6ADDRESS5$","IPV6ADDRESS6$","IPV6ADDRESS7$","IPV6ADDRESS8$","IPV6ADDRESS9$","ZONE  
ID$","UNRESERVED$$","RegExp","IPRIVATE$$","IPV6ADDRESS$","error","type","RangeError","errors","ma  
p","array","fn","result","mapDomain","string","parts","replace","regexSeparators","ucs2decode","output","counter",  
"value","charCodeAt","extra","push","pctEncChar","chr","c","pctDecChars","newStr","i","il","parseInt","substr","S  
tring","fromCharCode","c2","c3","_normalizeComponentEncoding","components","protocol","decodeUnreserved",  
"decStr","match","UNRESERVED","scheme","PCT_ENCODED","NOT_SCHEME","userinfo","NOT_USERINF  
O","host","NOT_HOST","path","NOT_PATH","NOT_PATH_NOScheme","query","NOT_QUERY","fragment",
```

"NOT_FRAGMENT","_stripLeadingZeros","_normalizeIPv4","matches","IPV4ADDRESS","address","_matches","_normalizeIPv6","IPV6ADDRESS","_matches2","zone","reverse","last","_address\$toLowerCase\$2","first","firstFields","lastFields","isLastFieldIPv4Address","test","fieldCount","lastFieldsStart","fields","allZeroFields","reduce","acc","field","index","lastLongest","longestZeroFields","sort","a","b","newHost","newFirst","newLast","parse","uriString","options","iri","IRI_PROTOCOL","URI_PROTOCOL","reference","URI_PARSE","NO_MATCH_IS_UNDEFINED","port","isNaN","indexOf","schemeHandler","SCHEMES","unicodeSupport","domainHost","punycode","toASCII","e","_recomposeAuthority","uriTokens","_","\$1","\$2","removeDotSegments","input","RDS1","RDS2","RDS3","im","RDS5","Error","s","serialize","toUnicode","authority","charAt","absolutePath","resolveComponents","base","relative","skipNormalization","tolerant","lastIndexOf","resolve","baseURI","relativeURI","schemelessOptions","normalize","uri","equal","uriA","uriB","escapeComponent","ESCAPE","unescapeComponent","maxInt","regexPunycode","regexNonASCII","floor","Math","stringFromCharCode","ucs2encode","fromCodePoint","apply","toConsumableArray","basicToDigit","codePoint","digitToBasic","digit","flag","adapt","delta","numPoints","firstTime","k","baseMinusTMin","decode","inputLength","n","bias","basic","j","oldi","w","t","baseMinusT","out","splice","encode","_step","Symbol","iterator","_iteratorNormalCompletion","_iterator","next","done","currentValue","basicLength","handledCPCount","m","_step2","_iteratorNormalCompletion2","_iterator2","handledCPCountPlusOne","_step3","_iteratorNormalCompletion3","_iterator3","q","qMinusT","handler","http","O","VCHAR\$\$","NOT_LOCAL_PART","NOT_HFNAME","NOT_HFVALUE","mailtoComponents","to","unknownHeaders","headers","hfields","hfield","toAddr","subject","body","addr","toAddr","atIdx","localPart","domain","name","URN_PARSE","urnComponents","nid","nss","urnScheme","uriComponents","UUID","uuidComponents","uuid","https","mailto","urn"],"mappings":";4LAAA,SAAAA,gCAAYBC,EAaZBC,MAAAC,GAAAC,EAAA,EAAAA,EAAAD,EAAAC,MAAAA,GAAAC,UAAAD,MACKH,EAACK,OAAS,EAAG,GACf,GAACL,EAAC,GAAGM,MAAM,GAAl,OAeVb,GADCC,GAACP,EAACK,OAAS,EACbBG,EAAl,EAAGA,EAAlD,IAAMC,IACpBA,GAACK,EAACQ,GAAGF,MAAM,GAAl,YAEExBC,GAAMP,EAACO,GAAlD,MAAM,GACnBN,EAACS,KAAK,UAeVT,GAAC,GAId,QAAAU,GAaUbc,SACf,MAAQa,EAAM,IAGtB,QAAAC,GAaUbc,SACfA,KAAAC,UAAY,YAAqB,OAAND,EAaA,OAASE,OAaOC,UAaUC,SAASC,KAAKL,GAAGM,MAAM,KAAKC,MAAMD,MAAM,KAAKE,QAAQC,cAGrI,QAAAC,GAa4BZ,SACpBA,GAAlY,cAGZ,QAAAC,GAawBC,SACbBA,KAAQX,WAAqB,OAARW,EAAGbA,YAAeXb,OAaQwB,EAa6B,gBAaFb,GAAlpB,GAaUBoB,EAAlN,OAASM,EAAlC,aAAeD,EAAlP,MAAQO,GAaOxB,MAAMe,UAaUV,MAAMY,KAAKO,MAI3L,QAAAE,GAaUbc,EAAGBC,MACHCJ,GAAMG,KACRC,MACE,GAAMC,KAAOD,KACbC,GAaOD,EAaOC,SAGbL,GcNCR,QAAAM,GAa0BC,MAMxBC,GAAWIC,EAfD,QAEGb,YAG1BmC,EAaexB,EAaOA,EAAO,UAAYuB,EAaW,IAAMA,EAaWA,EAaW,IAAMA,EAaWA,GAAY,IAAMvB,EAAO,cAAgBuB,EAaW,IAAMA,EAaWA,GAAY,IAAMvB,EAAO,IAAMuB,EAaWA,IAEHNE,EAaE,sCACfC,EAaArC,EAfE,0BAEKbOC,GACjCE,EAAYL,EAaQ,8EAAGf,OACvFA,EAaQ,oBAAAsB,OAC5BjC,EAbL,WAEa,QAaW6B,iBAaKbSc,GAIZDC,EAaQB5B,EAAOA,EAAO,WAAa,IAAMA,EAAO,eAAAsB,IAAMA,EAAO,eAA2B,IAAMA,EAAO,gBAaUbc,gBACHJA,EAAO4B,EAaQB,MAAQa,EAaQB,MAAQa,EAaQB,MAAQa,GAC7GC,EAAO7B,EAAOuB,EAaW,SACzBO,EAaQ9B,EAAOA,EAAO6B,EAAO,MAAQa,GAaQ,IAAME,GACnDC,EAAGbHc,EAAMeA,EAAO6B,EAAO,OAAS,MAAQc,KACIG9B,EAawD,SAaWA,EAAO6B,EAAO,OAAS,MAAQc,KACIG9B,EAAOA,EAAwC6B,GAaQ,UAAy7B,EAAO6B,EAAO,OAAS,MAAQc,KACIG9B,EAAOA,EAAOA,EAAO6B,EAAO,OAAS,QAAUA,GAaQ,UAAy7B,EAAO6B,EAAO,OAAS,MAAQc,KACIG9B,EAAOA,EAAOA,EAAO6B,EAAO,OAAS,QAAUA,GAaQ,UAAmBA,EAAO,MAAiBC,KACIG9B,EAAOA,EAAOA,EAAO6B,EAAO,OAAS,QAAUA,GAaQ,UAA2CC,KACIG9B,EAAOA,EAAOA,EAAO6B,EAAO,OAAS,QAAUA,GAaQ,UAA2CA,KACIG7B,EAAOA,EAAOA,EAAO6B,EAAO,OAAS,QAAUA,GAaQ,aACxD7B,GAaQgC,EAaEc,EAaEc,EAaEc,EAaEc,EAaEc,EAaEc,EAaEc,EAaEc,GAaEzC,KAAK,MACnK0C,EAaUzC,EAAOA,EAAO0C,EAaE,IAAMlB,GAAGb,uBAaChD,GAAlmB,QAAOtD,EAAM,MAAnEpB,WAEa,QAIe6C,eAAgB,kBACxD,GAAlSd,QAAOtD,EAAM,YAAaQd,EAACjB,GAaE,cAC/D,GAAlkB,QAAOtD,EAAM,kBAaAmBqD,EAACjB,GAaE,cACjE,GAAlkB,QAAOtD,EAAM,kBAaAmBqD,EAACjB,GAaE,uBACxD,GAAlkB,QAAOtD,EAAM,eAAgBqD,EAACjB,GAaE,eACtE,GAAlkB,QAAOtD,EAAM,SAaUqD,EAACjB,EAAC,iBAaKbMbc,GAaA,kBACnF,GAAlD,QAAOtD,EAAM,SAaUqD,EAACjB,EAAC,kBAaAmB,YACHf,GA

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[illegible]

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"{}," + 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$), //RFC 6874, with relaxed parsing rules\n\t\tIPV6FUTURE$ = subexp(\|vV\| + HEXDIG$
+ \|+\\\:." + merge(UNRESERVED$, SUB_DELIMS$, \[\\\:|]" ) + \|+" ), \n\t\tIP_LITERAL$ = subexp(\|\\\:|\"
+ subexp(IPV6ADDRZ_RELAXED$ + \|" + IPV6ADDRESS$ + \|" + IPV6FUTURE$) + \\\\:|\" ), //RFC
6874\n\t\tREG_NAME$ = 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(SCHEME$ +
\|\\\:|\" + HIER_PART$ + subexp(\|\\\:|?" + QUERY$) + \"?\" + subexp(\|\\\:|#\" + FRAGMENT$) +
\"?\" ), \n\t\tRELATIVE_PART$ = subexp(subexp(\|\\\:|\\\:\" + AUTHORITY$ + PATH_ABEMPTY$) + \|" +
PATH_ABSOLUTE$ + \|" + PATH_NOSCHEMES$ + \|" + PATH_EMPTY$), \n\t\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp(\|\\\:|?" + QUERY$) + \"?\" + subexp(\|\\\:|#\" + FRAGMENT$) +
\"?\" ), \n\t\tURI_REFERENCE$ = subexp(URI$ + \|" + RELATIVE$), \n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \|\\\:|\" + HIER_PART$ + subexp(\|\\\:|?" + QUERY$) + \"?\" ), \n\t\tGENERIC_REF$ =
\|^(\" + SCHEME$ + \|)\\\:|\" + 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$ + \|)\" ) + \"?$\" ), \n\t\tABSOLUTE_REF$ = \|^(\" +
SCHEME$ + \|)\\\:|\" + subexp(subexp(\|\\\:|\\\:\" (\" + subexp(\|(\" + USERINFO$ + \|)@\" ) + \"?\" (\" + HOST$ +
\|)\" + subexp(\|\\\:|(\" + PORT$ + \|)\" ) + \"?\" )\" ) + \"?\" (\" + PATH_ABEMPTY$ + \|" + PATH_ABSOLUTE$ +
\|" + PATH_ROOTLESS$ + \|" + PATH_EMPTY$ + \|)\" ) + subexp(\|\\\:|(\"
+ QUERY$ + \|)\" ) + \"?$\" ), \n\t\tSAMEDOC_REF$ = \|^\" + subexp(\|\\\:|#\" (\" + FRAGMENT$ + \|)\" ) +
\"?$\" ), \n\t\tAUTHORITY_REF$ = \|^\" + subexp(\|(\" + USERINFO$ + \|)@\" ) + \"?\" (\" + HOST$ + \|)\" +

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subexp('[\\:\\' + PORT$ + '\\')") + \'?$\'n\tn\treturn {\nt\tNOT_SCHEME : new RegExp(merge("[^]",  
ALPHA$$, DIGIT$$, "[\\\\+\\\\-\\\\.]"), \'g'), \nt\tNOT_USERINFO : new RegExp(merge("[^\\\\%\\\\:",'  
UNRESERVED$, SUB_DELIMS$), \'g'), \nt\tNOT_HOST : new RegExp(merge("[^\\\\%\\\\[\\\\]\\\\:",'  
UNRESERVED$, SUB_DELIMS$), \'g'), \nt\tNOT_PATH : new RegExp(merge("[^\\\\%\\\\\\\\\\\\\\\\\\\\@]",'  
UNRESERVED$, SUB_DELIMS$), \'g'), \nt\tNOT_PATH_NOScheme : new  
RegExp(merge("[^\\\\%\\\\\\\\\\\\\\\\\\\\@", '  
UNRESERVED$, SUB_DELIMS$, '[\\\\:\\\\\\@\\\\\\\\\\\\?"]', IPPRIVATE$),  
\'g'), \nt\tNOT_FRAGMENT : new RegExp(merge("[^\\\\%", UNRESERVED$, SUB_DELIMS$,  
'[\\\\:\\\\\\@\\\\\\\\\\\\?"]'), \'g'), \nt\tESCAPE  
  
: new RegExp(merge("[^]", UNRESERVED$, SUB_DELIMS$), \'g'), \nt\tUNRESERVED : new  
RegExp(UNRESERVED$, \'g'), \nt\tOTHER_CHARS : new RegExp(merge("[^\\\\%", UNRESERVED$,  
RESERVED$), \'g'), \nt\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \'g'), \nt\tIPV4ADDRESS : new  
RegExp("^(" + IPV4ADDRESS$ + ")$", '\n\n)\t\tIPV6ADDRESS : new RegExp("\\^[\\[(?" + IPV6ADDRESS$ +  
\\])"+" + subexp(subexp("\\\\\\%25\\\\\\\\%(?!"+ HEXDIG$ + "\\{2})")+ "(" + ZONEID$ + "\\)") + "\\]?\\\\)$")  
//RFC 6874, with relaxed parsing rules\n};\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  
regexPunycode = /\xn--;/\nconst regexNonASCII  
= /[^\0-\xA]/; // 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  
\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  
punycoded. Leave\n\t\tthe local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring =  
parts[1];\n\t\t// Avoid `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.  
 * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n *  
@memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *  
@returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet  
counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value =  
string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a  
high
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surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAtAt(counter++);\n\t\t\t\tif ((extra &
0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000);\n\t\t\t\t} else {\n\t\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t\t// next
code unit is the high surrogate of a surrogate pair.\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else
{\n\t\t\t\toutput.push(value);\n\t\t\t\t}\n\t\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\t\t\tif (codePoint - 0x30 < 0x0A) {\n\t\t\t\treturn codePoint - 0x16;\n\t\t\t}\n\t\t\tif
(codePoint - 0x41 < 0x1A) {\n\t\t\t\treturn codePoint - 0x41;\n\t\t\t}\n\t\t\tif (codePoint - 0x61 < 0x1A) {\n\t\t\t\treturn
codePoint - 0x61;\n\t\t\t}\n\t\t\treturn base;\n\t\t};\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\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII
0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t\t};\n\n/**\n * Bias adaptation function as per section
3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta,
numPoints, firstTime) {\n\t\tlet k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta /
numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta /
baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t\t};\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\t// Don't use UCS-2.\n\t\tconst
output = [];\n\t\tconst inputLength = input.length;\n\t\tlet i = 0;\n\t\tlet n = initialN;\n\t\tlet bias = initialBias;\n\t\t//
Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if
there is none, then copy\n\t\t// the first basic code points to the output.\n\t\tlet basic =
input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\t\tfor (let j = 0; j < basic; ++j) {\n\t\t\t// if it's not
a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\tthrow('not-
basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\t\t// Main decoding loop: start just after the last delimiter
if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\t\tfor (let index = basic > 0 ? basic + 1
: 0; index < inputLength; /* no final expression */) {\n\t\t\t// `index` is the index of the next character to be
consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which
gets added to `i`. The overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its
starting\n\t\t\t// value at the end to obtain `delta`.\n\t\t\tlet oldi = i;\n\t\t\tfor (let w = 1, k = base; /* no condition */; k +=
base) {\n\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\tthrow('invalid-input');\n\t\t\t\t}\n\t\t\t\tconst digit =
basicToDigit(input.charCodeAt(index++));\n\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\tthrow('overflow');\n\t\t\t\t}\n\t\t\t\ti += digit * w;\n\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax :
k - bias);\n\t\t\t\tif (digit < t) {\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt /
baseMinusT)) {\n\t\t\t\t\tthrow('overflow');\n\t\t\t\t}\n\t\t\t\tconst tw = baseMinusT;\n\t\t\t\tconst out = output.length +
1;\n\t\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t\t//
incrementing `n` each time, so we'll fix that now:\n\t\t\t\tif
(floor(i / out) > maxInt - n) {\n\t\t\t\t\tthrow('overflow');\n\t\t\t\t}\n\t\t\t\tconst tn = floor(i / out);\n\t\t\t\tconst % = out;\n\t\t\t\t// Insert `n`
at position `i` of the output.\n\t\t\t\toutput.splice(i++, 0, n);\n\t\t\t}\n\t\t\treturn
String.fromCodePoint(...output);\n\t\t};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to

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```
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 */\nfunction encode(input) {\n    const output = [];\n    // Convert the input in UCS-2 to an array of Unicode code points.\n    let input = ucs2decode(input);\n    // Cache the length.\n    let inputLength = input.length;\n    // Initialize the state.\n    let n = initialN;\n    let delta = 0;\n    let bias = initialBias;\n    // Handle the basic code points.\n    for (const currentValue of input) {\n        if (currentValue < 0x80)\n            output.push(stringFromCharCode(currentValue));\n\n        let basicLength = output.length;\n        let handledCPCount = basicLength;\n        // `handledCPCount` is the number of code points that have been handled;\n        // `basicLength` is the number of basic code points.\n        // Finish the basic string with a delimiter unless it's empty.\n        if (basicLength) {\n            output.push(delimiter);\n        }\n        // Main encoding loop:\n        while (handledCPCount < inputLength) {\n            // All non-basic code points < n have been handled already. Find the next larger one:\n            let m = maxInt;\n            for (const currentValue of input) {\n                if (currentValue >= n && currentValue < m) {\n                    let tm = currentValue;\n                    // Increase `delta` enough to advance the decoder's  $<n,i>$  state to  $<m,0>$ , but guard against overflow.\n                    handledCPCountPlusOne = handledCPCount + 1;\n                    if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n                        error('overflow');\n                        delta += (m - n) * handledCPCountPlusOne;\n                        n = m;\n                    }\n                    for (const currentValue of input) {\n                        if (currentValue < n && ++delta > maxInt) {\n                            error('overflow');\n                        }\n                        if (currentValue == n) {\n                            // Represent delta as a generalized variable-length integer.\n                            let q = delta;\n                            for (let k = base; /* no condition */; k += base) {\n                                let t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n                                if (q < t) {\n                                    break;\n                                }\n                                let qMinusT = q - t;\n                                let baseMinusT = base - t;\n                                output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));\n                                q = floor(qMinusT / baseMinusT);\n                            }\n                            output.push(stringFromCharCode(digitToBasic(q, 0))); \n                            bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n                            delta = 0;\n                            ++handledCPCount;\n                        }\n                        ++delta;\n                        ++n;\n                    }\n                    return output.join('');\n                }\n            }\n        }\n        // Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycoded parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.\n        // @memberOf punycode\n        // @param {String} input The Punycoded domain name or email address to convert to Unicode.\n        // @returns {String} The Unicode representation of the given Punycode string.\n        function toUnicode(input) {\n            return mapDomain(input, function(string) {\n                return regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) : string;\n            });\n        }\n        // Converts a Unicode string representing a domain name or an email address to Punycode. Only the non-ASCII parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII.\n        // @memberOf punycode\n        // @param {String} input The domain name or email address to convert, as a Unicode string.\n        // @returns {String} The Punycode representation of the given domain name or email address.\n        function toASCII(input) {\n            return mapDomain(input, function(string) {\n                return regexNonASCII.test(string) ? 'xn--' + encode(string) : string;\n            });\n        }\n        /**\n         * Define the public API\n         *\n         * A string representing the current Punycode.js version number.\n         *\n         * An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.\n         * @see <https://mathiasbynens.be/notes/javascript-encoding>\n         *\n         * An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.\n         * @type Object\n         *\n         * { decode: ucs2decode, encode: ucs2encode, decode: decode, encode: encode, toASCII: toASCII, toUnicode: toUnicode }\n         *\n         * URI.js\n         *\n         * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n         *\n         * @author <a href='\"mailto:gary.court@gmail.com\">Gary Court</a>\n         *\n         * @see http://github.com/garycourt/uri-js\n         *\n         * Copyright 2011 Gary Court. All rights reserved.\n         *\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';

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 = '%' + 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 += 7;
      } else {
        newStr += str.substr(i, 6);
        i += 6;
      }
    } else if (c >= 224) {
      if ((il - i) >= 9) {
        const c2 = parseInt(str.substr(i + 4, 2), 16);
        const c3 = parseInt(str.substr(i + 7, 2), 16);
        newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
        i += 10;
      } else {
        newStr += str.substr(i, 9);
        i += 9;
      }
    } else {
      newStr += str.substr(i, 3);
      i += 3;
    }
  }
  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\n\tif  
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,  
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "\\");\n\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\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\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\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\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\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn  
str.replace(/^0*(.*)/, "$1") || "0";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string  
\{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\tif (address)  
\{\n\t\treturn address.split(".").map(_stripLeadingZeros).join(".");\n\t}\n\telse {\n\t\treturn host;\n\t}\n}\n\nfunction  
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =  
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [ ,  
  
address, zone] = matches;\n\tif (address) {\n\t\tconst [last, first] =  
address.toLowerCase().split("::").reverse();\n\t\tconst firstFields = first ? first.split(":").map(_stripLeadingZeros) :  
[];\n\t\tconst lastFields = last.split(":").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =  
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :  
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor  
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";\n\t\t\tif  
(isLastFieldIPv4Address) {\n\t\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],  
protocol);\n\t\t\t}\n\t\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,  
index) => {\n\t\t\t\tif (!field || field === "0") {\n\t\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\t\tif (lastLongest  
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\t\tlastLongest.length++; \n\t\t\t\t\t} else  
\{\n\t\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn acc;\n\t\t\t}, [], {});\n\t\t\tconst longestZeroFields =  
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet newHost:string;\n\t\t\tif (longestZeroFields &&  
longestZeroFields.length > 1) {\n\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index); \n\t\t\t\tconst newLast  
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\tnewHost = newFirst.join(".") + ":" +  
newLast.join(":");\n\t\t\t} else {\n\t\t\t\tnewHost = fields.join(".");\n\t\t\t\tif (zone) {\n\t\t\t\t\tnewHost += "%" +  
zone;\n\t\t\t\t}\n\t\t\t\treturn newHost;\n\t\t\t} else {\n\t\t\t\treturn host;\n\t\t\t}\n\t}\n\n\tconst URI_PARSE =  
/^([?:(\[^\v?#]+)]?(?:\\v(?:[(^[\v?#@]*)@)?(\[[^\v?#\]]+\\)([^\v?#:]*)?(:\\.(\\d*))?)?)?([\w]*)(?:\\.([^\r])*)?$/i;\n\tconst NO_MATCH_IS_UNDEFINED = (  
RegExpMatchArray>("").match(/(){}))/[1]  
=== undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst  
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :  
URI_PROTOCOL);\n\tif (options.reference === "suffix") uriString = (options.scheme ? options.scheme + "://" :  
"\n") + "/" + uriString;\n\tconst matches = uriString.match(URI_PARSE);\n\tif (matches) {\n\t\t(NO_MATCH_IS_UNDEFINED) {\n\t\t\tstore each component\n\t\t\tcomponents.scheme =  
matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port =
```


[illegible]

[illegible]

```
DOMAIN$ = subexp(DOT_ATOM_TEXT$ + '\\'|" + DTEXT_NO_OBS$$ + \'*\|' + '\\\\[\"');\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + '|' + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + '\\\\\\@'| + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp('\\\\\\,' + ADDR_SPEC$) + \'*\|');\nconst HFNAME$ = subexp(QCHAR$ + \'*\|');\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + '\\\\\\=' + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp('\\\\\\&' + HFIELD$) + \'*\|');\nconst HIELDS$ = subexp('\\\\\\?'+ HFIELDS2$);\nconst MAILTO_URI = new RegExp('^mailto:\\\\\\:' + TO$ + \'?\|' + HIELDS$ + \'?$\|');\n\nconst UNRESERVED = new RegExp(UNRESERVED$, \|g\|);\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \|g\|);\nconst NOT_LOCAL_PART = new RegExp(merge(['^]|', ATEXT$$, '\\\\\\.'], '[\\.', VCHAR$$), \|g\|);\nconst NOT_DOMAIN = new RegExp(merge(['|^]', ATEXT$$, '\\\\\\.'], '[\\.', DTEXT_NO_OBSS$, '\\\\\\.]'), \|g\|);\nconst NOT_HFNAME = new RegExp(merge(['|^]', UNRESERVED$, SOME_DELIMSS$), \|g\|);\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp('^\|' + TO$ + '\|$');\nconst HIELDS = new RegExp('\|' + HIELDS2$ + '\|$');\n\nfunction decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED)? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents>= { \n\ttscheme : \"mailto\", \n\tparse : function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents = components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ? mailtoComponents.path.split(\",'') : []);\n\t\tmailtoComponents.path = undefined;\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false;\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split('&');\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split('=');\n\t\t\t\tswitch (hfield[0]){\n\t\t\t\t\tcase \"to\":\n\t\t\t\t\t\tconst toAddrs = hfield[1].split(',');\n\t\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n\t\t\t\t\t\t\ttto.push(toAddrs[x]);\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\tcase \"subject\":\n\t\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\tcase \"body\":\n\t\t\t\t\t\t\tmailtoComponents.body = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\tdefault:\n\t\t\t\t\t\t\tunknownHeaders = true;\n\t\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t} }\n\t\t\t\tif (unknownHeaders)\n\t\t\t\t\tmailtoComponents.headers = headers;\n\t\t\t\tmailtoComponents.query = undefined;\n\t\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\t\tconst addr = to[x].split('@');\n\t\t\t\t\ttaddr[0] = unescapeComponent(addr[0]);\n\t\t\t\t\ttif (!options unicodeSupport) {\n\t\t\t\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\ttaddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t\t\t\t\tcatch (e) {\n\t\t\t\t\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\telse {\n\t\t\t\t\t\t\t\ttaddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\ttto[x] = addr.join('@');\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\treturn mailtoComponents;\n\t\t\t\t\t}\n\t\t\t\tserialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {\n\t\t\t\t\tconst components = mailtoComponents as URIComponents;\n\t\t\t\t\tconst to = toArray(mailtoComponents.to);\n\t\t\t\t\ttif (to) {\n\t\t\t\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\t\t\t\tconst toAddr = String(to[x]);\n\t\t\t\t\t\t\tconst atIdx = toAddr.lastIndexOf('@');\n\t\t\t\t\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\t\t\t\tlet domain = toAddr.slice(atIdx + 1);\n\t\t\t\t\t\t\t//convert IDN via punycode\n\t\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\t\tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\tcatch (e) {\n\t\t\t\t\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\ttto[x] = localPart + '@' + domain;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\tmailtoComponents.path = to.join(',');\n\t\t\t\t\t\t\t\tmailtoComponents.headers = mailtoComponents.headers = mailtoComponents.headers || {};\n\t\t\t\t\t\t\t\ttif (mailtoComponents.subject)\n\t\t\t\t\t\t\t\t\theaders["subject"] = mailtoComponents.subject;\n\t\t\t\t\t\t\t\ttif (mailtoComponents.body)\n\t\t\t\t\t\t\t\t\theaders["body"] =
```

```

mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\tfor (const name in headers) {\n\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\tfields.push(\n\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME,
pctEncChar) +\n\t\t\t\t\t"=" +\n\t\t\t\t\theaders[name].replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE,
pctEncChar)\n\t\t\t\t);\n\t\t\t}\n\t\t}\n\t\tif (fields.length) {\n\t\t\tcomponents.query =
fields.join("&");\n\t\t}\n\t\treturn components;\n\t}\n}\n\nexport default handler;"", "import { URIRegExps } from
'./uri';\nimport { buildExps } from './regexps-uri';\n\nexport default buildExps(true);\n", "import {
URISchemeHandler, URIComponents, URIOptions } from './uri';\n\nconst handler:URISchemeHandler =
{\n\ttscheme : 'http',\n\tndomainHost : true,\n\tparse : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host)
{\n\t\t\tcomponents.error = components.error || 'HTTP URIs must have a host.';\n\t\t}\n\t\treturn
components;\n\t},\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents
{\n\t\t//normalize the
default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== 'https' ? 80 : 443) ||
components.port === '') {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t//normalize the empty path\n\t\tif
(!components.path) {\n\t\t\tcomponents.path = '^';\n\t\t}\n\t\t//NOTE: We do not parse query strings for HTTP
URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP
spec.\n\t\treturn components;\n\t}\n}\n\nexport default handler;"", "import { URISchemeHandler,
URIComponents, URIOptions } from './uri';\n\nimport http from './http';\n\nconst handler:URISchemeHandler =
{\n\ttscheme : 'https',\n\tndomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize :
http.serialize\n}\n\nexport default handler;"", "import { URISchemeHandler, URIComponents, URIOptions } from
'./uri';\n\nimport { pctEncChar, SCHEMES } from './uri';\n\nexport interface URNComponents extends
URIComponents {\n\ttnid?:string;\n\ttnss?:string;\n}\n\nexport
interface URNOptions extends URIOptions {\n\ttnid?:string;\n}\n\nconst NID$ = '(?:[0-9A-Za-z][0-9A-Za-z\\-
]{1,31})';\nconst PCT_ENCODED$ = '(?:%%[0-9A-Fa-f]{2})';\nconst TRANS$ = '[0-9A-Za-
z\\[\\]\\(\\)\\/\\+\\=\\@\\|\\:\\/\\*\\?\\!\\$\\%\\'\\\"\\,\\.\\.\\.\\#]';\nconst NSS$ = '(?:(' +
PCT_ENCODED$ + '\\/' + TRANS$ + ')+)';\nconst URN_SCHEME = new RegExp('^urn\\:(' + NID$ +
')?$');\nconst URN_PATH = new RegExp('^(' + NID$ + ')(\\/(' + NSS$ + ')?$');\nconst URN_PARSE =
/^([\\:]+)\\:(.*)$';\nconst URN_EXCLUDED = /[\x00-\x20\\\"'\\&\\<\\>\\[\\]\\\\\\{\\|\\}~\\x7F-
\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\ttscheme :
'urn',\n\tndomainHost : undefined,\n\tparse : function (components:URNComponents, options:URNOptions):URNComponents {\n\t\tconst
matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as
URNComponents;\n\t\tif (matches) {\n\t\t\tconst
scheme = options.scheme || urnComponents.scheme || 'urn';\n\t\t\tconst nid =
matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid ||
nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\t\t\turnComponents.nid =
nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\t\t\tif (schemeHandler)
{\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else
{\n\t\t\turnComponents.error = urnComponents.error || 'URN can not be parsed.';\n\t\t}\n\t\treturn
urnComponents;\n\t},\n\tserialize : function (urnComponents:URNComponents,
options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme ||
'urn';\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst
schemeHandler = SCHEMES[urnScheme];\n\t\tif (schemeHandler) {\n\t\t\turnComponents =
schemeHandler.serialize(urnComponents,
options) as URNComponents;\n\t\t}\n\t\tconst uriComponents = urnComponents as URIComponents;\n\t\tconst
nss = urnComponents.nss;\n\t\tconst uriComponents.path = `${nid || options.nid}:${nss}`;\n\t\treturn
uriComponents;\n\t},\n}\n\nexport default handler;"", "import { URISchemeHandler, URIComponents, URIOptions

```

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

1.350 css-selector-tokenizer 0.7.1

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1.351 json-schema-traverse 0.4.1

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1.352 fast-json-stable-stringify 2.0.0

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1.353 postcss-modules-values 1.3.0

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1.354 regexpu-core 1.0.0

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1.355 postcss-modules-local-by-default 1.2.0

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1.356 postcss-modules-scope 1.1.0

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1.357 ansi-styles 3.2.1

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1.358 color-name 1.1.3

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1.359 color-convert 1.9.1

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1.360 docopt 0.6.2

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1.361 python-dateutil 2.8.1

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dateutil - Extensions to the standard Python datetime module.

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1.362 python3-asn1crypto 0.24.0

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1.374 python-certifi 2019.9.11

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

<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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1.375 schema-utils 0.4.7

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1.376 pytz 2018.5

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1.385 postcss-value-parser 3.3.0

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1.387 icss-utils 2.1.0

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1.389 ajv-keywords 3.4.0

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1.390 chalk 2.3.2

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1.392 style-loader 0.21.0

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1.393 css-loader 1.0.1

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1.394 css-selector-tokenizer 0.7.0

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1.395 coreutils 8.31

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1.398 mpdecimal 2.4.2

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1.400 rsyslog 8.2006.0

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1.404 pcre 8.44

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1.405 cryptography 3.3.2

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1.406 pyasn1 0.4.7

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* /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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ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](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 became 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

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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

-----

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

.. toctree::

:maxdepth: 2

/license

## 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

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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.

Found in path(s):

\* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/docs/source/contents.rst

## 1.407 simplegeneric 0.8.1

### 1.407.1 Available under license :

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

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

Found in path(s):

\* /simplegeneric-0-8-1-4-zip/simplegeneric-0.8.1/classifiers.txt

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

Metadata-Version: 1.0

Name: simplegeneric

Version: 0.8.1

Summary: Simple generic functions (similar to Python's own len(), pickle.dump(), etc.)

Home-page: <http://cheeseshop.python.org/pypi/simplegeneric>

Author: Phillip J. Eby

Author-email: [peak@eby-sarna.com](mailto:peak@eby-sarna.com)

License: ZPL 2.1

Description: \* New in 0.8: Source and tests are compatible with Python 3 (w/o ``setup.py``)

\* 0.8.1: setup.py is now compatible with Python 3 as well

\* New in 0.7: `Multiple Types or Objects`\_



\* New in 0.6: ``Inspection and Extension`_`, and thread-safe method registration

The ``simplegeneric`` module lets you define simple single-dispatch generic functions, akin to Python's built-in generic functions like ``len()``, ``iter()`` and so on. However, instead of using specially-named methods, these generic functions use simple lookup tables, akin to those used by e.g. ``pickle.dump()`` and other generic functions found in the Python standard library.

As you can see from the above examples, generic functions are actually quite common in Python already, but there is no standard way to create simple ones. This library attempts to fill that gap, as generic functions are an ``excellent alternative to the Visitor pattern`_`, as well as being a great substitute for most common uses of adaptation.

This library tries to be the simplest possible implementation of generic functions, and it therefore eschews the use of multiple or predicate dispatch, as well as avoiding speedup techniques such as C dispatching or code generation. But it has absolutely no dependencies, other than Python 2.4, and the implementation is just a single Python module of less than 100 lines.

## Usage

-----

Defining and using a generic function is straightforward::

```
>>> from simplegeneric import generic
>>> @generic
... def move(item, target):
... """Default implementation goes here"""
... print("what you say?!")

>>> @move.when_type(int)
... def move_int(item, target):
... print("In AD %d, %s was beginning." % (item, target))

>>> @move.when_type(str)
... def move_str(item, target):
... print("How are you %s!!" % item)
... print("All your %s are belong to us." % (target,))

>>> zig = object()
>>> @move.when_object(zig)
... def move_zig(item, target):
```

```
... print("You know what you %s." % (target,))
... print("For great justice!")
```

```
>>> move(2101, "war")
In AD 2101, war was beginning.
```

```
>>> move("gentlemen", "base")
How
are you gentlemen!!
All your base are belong to us.
```

```
>>> move(zig, "doing")
You know what you doing.
For great justice!
```

```
>>> move(27.0, 56.2)
what you say?!
```

## Inheritance and Allowed Types

-----

Defining multiple methods for the same type or object is an error::

```
>>> @move.when_type(str)
... def this_is_wrong(item, target):
... pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for type <...'str'>
```

```
>>> @move.when_object(zig)
... def this_is_wrong(item, target): pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for object <object ...>
```

And the ``when\_type()`` decorator only accepts classes or types::

```
>>> @move.when_type(23)
... def move_23(item, target):
... print("You have no chance to survive!")
Traceback (most recent call last):
...
TypeError: 23 is not a type or class
```

Methods defined for supertypes are inherited following MRO order::

```
>>> class MyString(str):
... """String subclass"""

>>> move(MyString("ladies"), "drinks")
How are you ladies!!
All your drinks are belong to us.
```

Classic class instances are also supported (although the lookup process is slower than for new-style instances)::

```
>>> class X: pass
>>> class Y(X): pass

>>> @move.when_type(X)
... def move_x(item, target):
... print("Someone set us up the %s!!!" % (target,))

>>> move(X(), "bomb")
Someone set us up the bomb!!!

>>> move(Y(), "dance")
Someone set us up the dance!!!
```

## Multiple Types or Objects

-----

As a convenience, you can now pass more than one type or object to the registration methods::

```
>>> @generic
... def isbuiltin(ob):
... return False
>>> @isbuiltin.when_type(int, str, float, complex, type)
... @isbuiltin.when_object(None, Ellipsis)
... def yes(ob):
... return True

>>> isbuiltin(1)
True
>>> isbuiltin(object)
True
>>> isbuiltin(object())
False
>>> isbuiltin(X())
False
>>> isbuiltin(None)
```

```
True
>>> isbuiltin(Ellipsis)
True
```

## Defaults and Docs

-----

You can obtain a function's default implementation using its ``default`` attribute::

```
>>> @move.when_type(Y)
... def move_y(item, target):
... print("Someone set us up the %s!!!" % (target,))
... move.default(item, target)
```

```
>>> move(Y(), "dance")
Someone set us up the dance!!!
what you say?!
```

``help()`` and other documentation tools see generic functions as normal function objects, with the same name, attributes, docstring, and module as the prototype/default function::

```
>>> help(move)
Help on function move:
...
move(*args, **kw)
Default implementation goes here
...
```

## Inspection and Extension

-----

You can find out if a generic function has a method for a type or object using the ``has\_object()`` and ``has\_type()`` methods::

```
>>> move.has_object(zig)
True
>>> move.has_object(42)
False
```

```
>>> move.has_type(X)
True
>>> move.has_type(float)
```

False

Note that `has_type()` only queries whether there is a method registered for the *\*exact\** type, not subtypes or supertypes::

```
>>> class Z(X): pass
>>> move.has_type(Z)
False
```

You can create a generic function that "inherits" from an existing generic function by calling `generic()` on the existing function::

```
>>> move2 = generic(move)
>>> move2(2101, "war")
In AD 2101, war was beginning.
```

Any methods added to the new generic function override *\*all\** methods in the "base" function::

```
>>> @move2.when_type(X)
... def move2_X(item, target):
... print("You have no chance to survive make your %s!" % (target,))

>>> move2(X(), "time")
You have no chance
to survive make your time!

>>> move2(Y(), "time")
You have no chance to survive make your time!
```

Notice that even though `move()` has a method for type `Y`, the method defined for `X` in `move2()` takes precedence. This is because the `move` function is used as the `default` method of `move2`, and `move2` has no method for type `Y`::

```
>>> move2.default is move
True
>>> move.has_type(Y)
True
>>> move2.has_type(Y)
False
```

## Limitations

-----

\* The first argument is always used for dispatching, and it must always be passed *\*positionally\** when the function is called.

\* Documentation tools don't see the function's original argument signature, so you have to describe it in the docstring.

\* If you have optional arguments, you must duplicate them on every method in order for them to work correctly. (On the plus side, it means you can have different defaults or required arguments for each method, although relying on that quirk probably isn't a good idea.)

These restrictions may be lifted in later releases, if I feel the need. They would require runtime code generation the way I do it in ``RuleDispatch``, however, which is somewhat of a pain. (Alternately I could use the ``BytecodeAssembler`` package to do the code generation, as that's a lot easier to use than string-based code generation, but that would introduce more dependencies, and I'm trying to keep this simple so I can just toss it into Chandler without a big footprint increase.)

.. \_excellent alternative to the Visitor pattern: <http://peak.telecommunity.com/DevCenter/VisitorRevisited>

Platform: UNKNOWN

Classifier:

Development Status :: 6 - Mature

Classifier: Development Status :: 7 - Inactive

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Zope Public License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Operating System :: OS Independent

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

Found in path(s):

\* /simplegeneric-0-8-1-4-zip/simplegeneric-0.8.1/PKG-INFO

\* /simplegeneric-0-8-1-4-zip/simplegeneric-0.8.1/simplegeneric.egg-info/PKG-INFO

## 1.408 pystache 0.5.4

### 1.408.1 Available under license :

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## 1.409 pem 21.1.0

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# 1.410 python-requests 2.22.0

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# 1.411 urllib3 1.25.6

## 1.411.1 Notifications :

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SOFTWARE.

# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

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

\* HTTPS patch (which inspired HTTPSConnectionPool)

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

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

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

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

\* Thomas Kluyver <thomas@kluyver.me.uk>

\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

\* studer <theo.studer@gmail.com>

\* IPv6 url support and test coverage

- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts

- \* Peter Waller <p@pwaller.net>
- \* `HTTPResponse.tell()` for determining amount received over the wire
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in `pyopenssl contrib` module
- \* Configurable cipher suites in `pyopenssl contrib` module
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
- \* Josh Schneier <<https://github.com/jschneier>>
- \* `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  
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- \* 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]

# 1.412 python-pip 19.3.1

## 1.412.1 Available under license :

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

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|---------|-----------------|------|-------|-------------------------|
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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                     |
| 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 |
| 3.2.1 | 3.2   | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3   | 3.2   |      |     |     |
| 2012  | PSF   | yes  |     |     |

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| 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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#### 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 (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 |
| 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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(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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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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## 1.413 attrs 19.3.0

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# 1.414 python-requests 2.21.0

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# 1.415 pyopenssl 19.1.0

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## 1.417 urllib3 1.24.2

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

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

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

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\* IPv6 url support and test coverage

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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
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- \* Optional SNI-support for Python 2 via PyOpenSSL.
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
- \* Cory Benfield
- <<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
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- \* Added abstraction for granular control of request fields
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- \* Support for separate connect and request timeouts

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



# 1.418 cyrus-sasl 2.1.27

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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## 1.420 rfc3987 1.3.7

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- b) Convey the object code in, or embodied in, a physical product

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```

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```
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```

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## 1.421 loader-utils 1.2.3

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## 1.422 celery 4.3.0

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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.

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zhengxiaowai, 2016/12/07  
Michael Howitz, 2016/12/08  
Andreas Pelme, 2016/12/13  
Mike Chen, 2016/12/20  
Alejandro Pernin, 2016/12/23  
Yuval Shalev, 2016/12/27  
Morgan Doocy, 2017/01/02  
Arcadiy Ivanov, 2017/01/08  
Ryan Hiebert, 2017/01/20  
Jianjian Yu, 2017/04/09  
Brian May, 2017/04/10  
Dmytro Petruk, 2017/04/12  
Joey Wilhelm, 2017/04/12  
Yoichi Nakayama, 2017/04/25  
Simon Schmidt, 2017/05/19  
Anthony Lukach, 2017/05/23  
Samuel Dion-Girardeau, 2017/05/29

Aydin Sen, 2017/06/14  
Vinod Chandru, 2017/07/11  
Preston Moore, 2017/06/18  
Nicolas Mota, 2017/08/10  
David Davis, 2017/08/11  
Martial Pageau, 2017/08/16  
Sammie S. Taunton, 2017/08/17  
Kxrr, 2017/08/18  
Mads Jensen, 2017/08/20  
Markus Kaiserswerth, 2017/08/30  
Andrew Wong,  
2017/09/07  
Arpan Shah, 2017/09/12  
Tobias 'rix' Kunze, 2017/08/20  
Mikhail Wolfson, 2017/12/11  
Alex Garel, 2018/01/04  
Rgis Behmo 2018/01/20  
Igor Kasianov, 2018/01/20  
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Josue Balandrano Coronel, 2018/05/24  
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Tom Booth, 2018/07/06  
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Bruno Alla, 2018/09/27  
Artem Vasilyev, 2018/11/24  
Victor Mireyev, 2018/12/13  
Florian Chardin, 2018/10/23  
Shady Rafehi, 2019/02/20  
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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Advice for new contributors

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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

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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                 |
| 2.1.2          | 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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## 1.425 chardet 3.0.4-2.ph4

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## 1.426 python3-asn1crypto 1.2.0

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## 1.431 websocket-client 0.40.0

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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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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))
 }
}

```

# 1.441 bridgeutils 1.6.0

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# 1.443 libatomic 7.6.10

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## 1.444 runc 1.0.0-rc10

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# 1.445 browserify-des 1.0.2

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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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## 1.448 parse-asn1 5.1.1

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ISC

## 1.449 python-certifi 2019.11.28

### 1.449.1 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 \$

## 1.450 supports-color 5.3.0

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## 1.451 remove-trailing-separator 1.1

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## 1.452 procps 3.3.15

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```

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

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

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

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

Any executables

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

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# 1.473 libaio 0.3.111

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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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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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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
- b) use the modified Package only within your corporation or organization.
- c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
- d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

- a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.
- b) accompany the distribution with the machine-readable source of the Package with your modifications.
- c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.
- d) make other distribution arrangements with the Copyright Holder.

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6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines

(or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

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The End

## 1.475 sqlite 3.30.1

## 1.475.1 Available under license :

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.

May you find forgiveness for yourself and forgive others.

May you share freely, never taking more than you give.

## 1.476 sapy 1.4.7

### 1.476.1 Available under license :

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

:class:`TransportFatalError`: a special exception type recognized by the agent.

:class:`TransportRetryLater`: a special exception type recognized by the agent.

Found in path(s):

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/sapy/plugins/transport/base.py

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

Smart Licensing Status

=====

{{get\_license\_status}}

Evaluation Period:

Evaluation Mode: {{get\_eval\_mode}}

Evaluation Period Remaining: {{get\_eval\_period\_remaining}}

License Usage

=====

{{^get\_license\_usage}}{{get\_line\_break}}No licenses in

use{{get\_line\_break}}{{/get\_license\_usage}}{{#get\_license\_usage}}

License: {{#name}}{{name}}{{/name}}

Entitlement Tag: {{#name-tag}}{{name-tag}}{{/name-tag}}

Description: {{#description}}{{description}}{{/description}}

Count: {{#count}}{{count}}{{/count}}

Version: {{#version}}{{version}}{{/version}}

Status: {{#status}}{{status}}{{/status}}

Status time: {{#status\_time}}{{status\_time}}{{/status\_time}}

Request Time: {{#request\_time}}{{request\_time}}{{/request\_time}}{{#export-status}}{{get\_line\_break}}

Export status: {{export-status}}{{/export-status}}{{#feature}}{{get\_line\_break}} Feature name:

{{feature}}{{/feature}}{{#feature description}}{{get\_line\_break}}

Feature Description: {{feature description}}{{/feature description}}

{{/get\_license\_usage}}

Product Information

=====

{{get\_license\_udi}}

## Agent Version

=====

Smart Agent for Licensing: {{get\_agent\_version}}

## Upcoming Scheduled Jobs

=====

Certificate Renewal: {{get\_cert\_renewal}}

Certificate Expiration: {{get\_cert\_expiration\_check}}

Authorization Renewal: {{get\_auth\_renewal}}

Authorization Expiration: {{get\_auth\_expiration\_check}}

Evaluation Expiration Check: {{get\_eval\_expiration\_check}}

Register Period Expiration Check: {{get\_register\_period\_expiration\_check}}

Ack Expiration Check: {{get\_ack\_expiration\_check}}

## License Certificates

=====

{{^get\_license\_certificates\_default}}

Production cert: {{get\_production\_cert}}

PIID: {{get\_piid}}

Licensing Certificates:

ID Cert Info:

Start Date: {{#get\_id\_cert\_start\_date}}{{get\_id\_cert\_start\_date}}{/get\_id\_cert\_start\_date}}

Expiry Date: {{#get\_id\_cert\_expiry\_date}}{{get\_id\_cert\_expiry\_date}}{/get\_id\_cert\_expiry\_date}}

Version: {{#get\_id\_cert\_version\_number}}{{get\_id\_cert\_version\_number}}{/get\_id\_cert\_version\_number}}

Serial Number:

{{#get\_id\_cert\_serial\_number}}{{get\_id\_cert\_serial\_number}}{/get\_id\_cert\_serial\_number}}

Common Name:

{{#get\_id\_cert\_common\_name}}{{get\_id\_cert\_common\_name}}{/get\_id\_cert\_common\_name}}

Issuer Name: {{#get\_id\_cert\_issuer\_name}}{{get\_id\_cert\_issuer\_name}}{/get\_id\_cert\_issuer\_name}}

Attributes:

CN: {{#get\_id\_cert\_attributes\_cn}}{{get\_id\_cert\_attributes\_cn}}{/get\_id\_cert\_attributes\_cn}}

Serial Number:

{{#get\_id\_cert\_attributes\_serial\_number}}{{get\_id\_cert\_attributes\_serial\_number}}{/get\_id\_cert\_attributes\_serial\_number}}

O: {{#get\_id\_cert\_attributes\_o}}{{get\_id\_cert\_attributes\_o}}{/get\_id\_cert\_attributes\_o}}

Signing Cert Info:

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Expiry

Date: {{#get\_signing\_cert\_expiry\_date}}{{get\_signing\_cert\_expiry\_date}}{/get\_signing\_cert\_expiry\_date}}

Version:

{{#get\_signing\_cert\_version\_number}}{{get\_signing\_cert\_version\_number}}{/get\_signing\_cert\_version\_number}}

Serial Number:

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Common Name:

{{#get\_signing\_cert\_common\_name}}{{get\_signing\_cert\_common\_name}}{/get\_signing\_cert\_common\_name}}

Issuer Name:

```

{{#get_signing_cert_issuer_name}}{{get_signing_cert_issuer_name}}{{/get_signing_cert_issuer_name}}
 Attributes:
 CN:
{{#get_signing_cert_attributes_cn}}{{get_signing_cert_attributes_cn}}{{/get_signing_cert_attributes_cn}}
 O: {{#get_signing_cert_attributes_o}}{{get_signing_cert_attributes_o}}{{/get_signing_cert_attributes_o}}

Intermediate Cert info:
 Start Date:
{{#get_intermediate_cert_start_date}}{{get_intermediate_cert_start_date}}{{/get_intermediate_cert_start_date}}
 Expiry Date:
{{#get_intermediate_cert_expiry_date}}{{get_intermediate_cert_expiry_date}}{{/get_intermediate_cert_expiry_date}}
 Version:
{{#get_intermediate_cert_version_number}}{{get_intermediate_cert_version_number}}{{/get_intermediate_cert_version_number}}
 Serial Number:
{{#get_intermediate_cert_serial_number}}{{get_intermediate_cert_serial_number}}{{/get_intermediate_cert_serial_number}}
 Common Name:
{{#get_intermediate_cert_common_name}}{{get_intermediate_cert_common_name}}{{/get_intermediate_cert_common_name}}
 Issuer Name:
{{#get_intermediate_cert_issuer_name}}{{get_intermediate_cert_issuer_name}}{{/get_intermediate_cert_issuer_name}}
 Attributes:
 CN:
{{#get_intermediate_cert_attributes_cn}}{{get_intermediate_cert_attributes_cn}}{{/get_intermediate_cert_attributes_cn}}
 O:
{{#get_intermediate_cert_attributes_o}}{{get_intermediate_cert_attributes_o}}{{/get_intermediate_cert_attributes_o}}
{{/get_license_certificates_default}}{{#get_license_certificates_default}}Production
cert:
{{get_production_cert}}{{get_line_break}}{{get_license_certificates_default}}{{get_line_break}}{{/get_license_certificates_default}}
Other info
=====
Software ID: {{get_software_tag}}
Tenant State: {{get_tenant_state}}
Transport: {{get_transport}}
Locale: {{get_locale}}
Tenants available: {{get_list_of_tenants_created}}
Reservation enable: {{get_reservation_enable}}
{{#get_reservation_enable}}
Reservation status: {{get_reservation_status}}
Reservation Request code: {{get_reservation_request_code}}
Reservation authorization code: {{get_reservation_auth_code}}
Reservation return code: {{get_reservation_return_code}}

```

Reservation confirmation code: {{get\_reservation\_confirmation\_code}}  
{{/get\_reservation\_enable}}

Found in path(s):

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/clitools/cliexecuter/show\_tech\_support.mustache

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-

v1.4.7/sapy/builtins/show\_api/templates/show\_tech\_support.mustache

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

```
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"metadata": {},
"source": [
"# Setup\n",
"\n",
"The parameters below should be configured before running the notebook."
]
},
{
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"execution_count": 1,
"metadata": {},
"outputs": [],
"source": [
"SQLITE_PATH = \"/path/to/db.sqlite\"\n",
"C_LIBRARY_PATH = \"/path/to/libSmartSecurity.so\"
]
},
{
"cell_type": "markdown",
"metadata": {},
"source": [
"# Run It"
]
},
{
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"execution_count": 2,
"metadata": {},
"outputs": [],
"source": [
"import os\n",
"import time\n",
"\n",
"import sapy\n",
"from sapy.plugins.datastore import SQLiteDatastore"
```

```

]
},
{
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 "metadata": {},
 "outputs": [],
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 "def getsize():\n",
 " return os.path.getsize(SQLITE_PATH)\n",
]
},
{
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 "execution_count": 4,
 "metadata": {},
 "outputs": [],
 "source": [
 "if os.path.exists(SQLITE_PATH):\n",
 " os.remove(SQLITE_PATH)\n",
 "\n",
 "sapy.mock.settings[\"builtin_security_module.c_library_path\"] = C_LIBRARY_PATH\n",
 "sapy.mock.settings[\"datastore.filepath\"] = SQLITE_PATH\n",
 "sapy.mock.settings[\"datastore.delete_on_finalize\"] = True\n",
 "sapy.mock.plugins[\"datastore\"] = SQLiteDatastore\n",
 "\n",
 "sapy.init_smart_agent(sapy.mock.settings, sapy.mock.plugins)\n",
 "\n",
 "agent = sapy.smart_agent()\n",
]
},
{
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 "metadata": {},
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 "source": [
 "from ipywidgets import FloatProgress\n",
 "from IPython.display import display\n",
 "\n",
 "number = 100\n",
 "progress_bar = FloatProgress(min=0, max=number)\n",
 "display(progress_bar)\n",
 "\n",
 "print(\"Initial size: %r Byte\" % getsize())\n",
 "\n",
 "data_KB = []\n",
 "for i in range(number):\n",

```

```

" tcid, tenant = agent.create_tenant()\n",
" task = tenant.register(sapy.mock.token, force=True)\n",
" \n",
" time.sleep(.1)\n",
" size_Byte = getsize()\n",
" data_KB.append(size_Byte/1000.0)\n",
" progress_bar.value += 1\n",
"\n",
"print(\"Done \")"
]
},
{
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"metadata": {},
"source": [
"# Graph It\n",
"\n",
"*Note:* matplotlib is required to plot the graph. You are free to use any other plotting libraries though. For most
of the system, within the current virtual environment issuing following command should suffice to install
matplotlib.\n",
"\n",
"```bash\n",
"$ pip install matplotlib\n",
"```\n",
"\n",
"* More details at official [matplotlib](https://matplotlib.org/users/installing.html) installation page."
]
},
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No license file was found, but licenses were detected in source scan.

"\_SLERUM::slerum\_auth\_request - send auth request for the license: %s"

Found in path(s):

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/test\_automation/sanity/sa\_ultra.py

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"display(progress_bar)\n",
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"task = tenant.register(sapy.mock.token, force=True)\n",
"\n",
"data_KB = []\n",
"for i in range(number):\n",
" entitlement = tenant.entitlement(ENTITLEMENT_TAG)\n",
" entitlement.request(1)\n",
" time.sleep(.1)\n",
" size_Byte = getsize()\n",
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```

Found in path(s):

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/.static/js/renderjson.js

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

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

\*/

# 1.478 lvm2 2.02.185

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# 1.479 python-setuptools 40.2.0.post20220720

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