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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

1.8 supports-color 2.0.0

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

> Detect whether a terminal supports color

Install

...

\$ npm install --save supports-color

...

Usage

```js

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

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

```

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

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

Related

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

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1.10 buffer-xor 1.0.3

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1.11 backbone 1.2.3

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1.19 inflight 1.0.6

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1.46 balanced-match 1.0.0

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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1.51 source-map-support 0.4.18

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1.55 repeat-element 1.1.2

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1.56 regex-cache 0.4.4

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1.57 core-util-is 1.0.2

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1.58 readdirp 2.1.0

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1.59 randomatic 1.1.7

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1.60 punycode 1.4.1

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1.61 preserve 0.2.0

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1.62 debug 2.6.9

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1.64 path-is-absolute 1.0.1

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1.68 parse-glob 3.0.4

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1.70 ms 2.0.0

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1.74 is-number 2.1.0

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1.80 graceful-fs 4.1.11

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1.84 for-in 1.0.2

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1.85 fill-range 2.2.3

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1.87 dcron 4.5

1.88 webcolors 1.7

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1.89 ifupdown 0.8.16

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

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1.174 diff-match-patch 20121119

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1.186 gsap 1.20.3

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Found in path(s):

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

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Found in path(s):

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

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Found in path(s):

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

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Found in path(s):

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

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Found in path(s):

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

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

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Found in path(s):

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

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

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

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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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*

* 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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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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Found in path(s):

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

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

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

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Found in path(s):

* /gsap-1-20-3-tgz/package/src/uncompressed/easing/EasePack.js

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

* /gsap-1-20-3-tgz/package/src/minified/easing/EasePack.min.js

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* VERSION: 0.16.0

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*

* Requires TweenLite and CSSPlugin version 1.17.0 or later (TweenMax contains both TweenLite and CSSPlugin).

ThrowPropsPlugin is required for momentum-based continuation of movement after the mouse/touch is released

(ThrowPropsPlugin is a membership benefit of Club GreenSock - <http://greensock.com/club/>).

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```

Found in path(s):

```

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

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```

Found in path(s):

```

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

```

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

```

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

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

1.187 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

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1.188 netlink

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1.200 create-ecdh 4.0.3

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1.202 create-hmac 1.1.7

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1.203 diffie-hellman 5.0.3

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1.204 hash-base 3.0.4

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1.205 minimalistic-assert 1.0.1

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1.206 pbkdf2 3.0.16

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1.207 public-encrypt 4.0.2

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1.208 randomfill 1.0.4

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1.209 ripemd160 2.0.2

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1.210 ntlm-auth 1.2.0

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1.211 moment-duration-format 2.2.2

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1.212 ptyprocess 0.6.0

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1.213 backcall 0.1.0

1.214 jdcal 1.4

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1.215 django-auth-ldap 1.7.0

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1.217 automat 0.7.0

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1.218 et-xmlfile 1.0.1

1.219 txaio 18.8.1

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1.220 django-cors-headers 2.4.0

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1.221 odfpy 1.3.6

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1.222 elliptic 6.4.1

1.223 supports-color 5.5.0

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1.225 zlib 1.2.3

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

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1.226 pynacl 1.3.0

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1.231 colorama 0.4.1

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1.232 jquery-ui 1.12.1

1.233 webpack-jquery-ui 2.0.1

1.234 bzip2 1.0.8

1.235 iptables 1.8.3

1.236 open-ldap 2.4.48

1.237 select2 4.0.8

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1.238 sqlite 3.30.1

1.239 zlib 1.2.8

1.239.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.240 zlib 1.2.5

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1.241 json-c 0.99.8

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1.242 gmp 6.1.2

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1.243 net-tools 2.10

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1.244 ncurses 6.1

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-- vile: txtmode file-encoding=utf-8
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
This package is used for testing builds of ncurses.

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

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tium.

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

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

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

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Files: *

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-- vile:txtmode fc=72

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1.245 libvmtools 10.3.5.7752

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>>> freebsd-base64-4.8
>>>
unicode-5.0

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1.246 popt 1.16

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1.247 pyparsing 2.4.2

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1.248 packaging 19.1

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1.249 jsonref 0.2

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1.250 cryptography 2.8

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1.251 xz 5.2.4

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1.252 python-dockerpty 0.4.1

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1.253 core-js 2.5.5

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1.264 libyaml 0.2.2

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1.265 simplegeneric 0.8.1

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Development Status :: 6 - Mature

Development Status :: 7 - Inactive

Intended Audience :: Developers

License :: OSI Approved :: Zope Public License

Programming Language :: Python

Programming Language :: Python :: 2

Programming Language :: Python :: 2.4

Programming Language :: Python :: 2.5

Programming Language :: Python :: 2.6

Programming Language :: Python :: 2.7

Programming Language :: Python :: 3

Operating System :: OS Independent

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

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1.266 dhcp 4.4.1

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```
</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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1.267 fs.realpath 1.0.0

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1.268 evp_bytestokey 1.0.3

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1.269 backbone.radio 2.0.0

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1.270 randombytes 2.0.6

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1.271 bn.js 4.11.8

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1.272 hash.js 1.1.5

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1.273 string_decoder 1.1.1

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1.274 asn1.js 4.10.1

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1.275 object.assign 4.1.1

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1.276 des.js 1.0.0

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1.277 Idap-filters 2.2.2

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1.278 object.omit 2.0.1

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1.279 sha.js 2.4.11

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1.288 docker-pycreds 0.4.0

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1.289 libevent 2.1.11

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1.290 fdisk 2.35.1

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1.291 libffi 3.3

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

Release	Derived 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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1.295 stunnel 5.56

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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, '&#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
    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:for-each>
    </xsl:with-param>
  </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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1.297 sudo 1.8.31

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

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie

Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim

Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas

Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew

Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

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

Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.298 libnettle6 3.5.1

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1.299 jquery 3.5.1

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1.301 pycparser 2.19

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pycparser -- A C parser in Python

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1.303 ntp 4.2.8p15

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1.309 bcrypt 3.2.0

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1.321 libglib 2.62.4

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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1.322 libseccomp 2.4.1

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

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

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

*

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

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

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

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

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

* and spelling mistakes.

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

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

* re-established. (put back CFG_PHYIE)

*

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

*

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

*

- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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1.328 python-blessed 1.17.5

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1.329 python-cached-property 1.4.3

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1.332 zope-interface 4.6.0

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1.333 docker-containerd 1.2.12

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

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1.334 docker-proxy

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1.335 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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1.336 libatomic-ops 7.6.10

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1.338 libfastjson 0.99.8

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1.343 postcss 6.0.23

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1.344 css-selector-tokenizer 0.7.1

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1.351 docopt 0.6.2

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1.356 ajv 6.10.0

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1.370 python-setuptools 41.2.0

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1.372 Iodash 4.17.4

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1.373 gojsonpointer

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1.376 icss-utils 2.1.0

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1.378 chalk 2.3.2

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1.379 style-loader 0.21.0

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1.380 css-loader 1.0.1

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1.381 css-selector-tokenizer 0.7.0

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1.382 coreutils 8.31

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{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.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,

either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must

cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

@item

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

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

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

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

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

@item

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of
this License. Also, you must do one
of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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@item

Accompany the combined library with a copy of the same work based on the Library,
uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary
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License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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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.

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1.391 pcre 8.44

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PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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Cambridge,
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1.392 libxml 2.9.10

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1.393 pyasn1 0.4.7

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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/test_debug.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/der/encoder.py
```



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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/test_decoder.py
* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/cer/encoder.py

```

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ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7

- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
```

```

OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
DefaultedNamedType(
 'house',
Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
)
'''

```

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

```

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

```

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

```

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

```

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

```

'''python
>>> from pyasn1.codec.der.decoder import decode

```

```

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

```

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

```

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

```

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

```

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

```

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

More information on pyasn1 APIs can be found in the

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

How to get pyasn1

-----

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

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

If

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

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ASN.1 library for Python

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.. toctree::

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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 become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-----

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

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

ASN.1 gotchas

-----

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

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

Documentation

-----

```
.. toctree::
: maxdepth: 2

/ pyasn1/ contents
```

Use case

-----

```
.. toctree::
: maxdepth: 2

/ example-use-case
```

Download & Install

-----



```
.. toctree::
 :maxdepth: 2
```

/download

## Changes

-----

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

```
..
toctree::
 :maxdepth: 1
```

/changelog

## License

-----

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```
.. toctree::
 :maxdepth: 2
```

/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

## 1.394 lxm1 4.6.3

### 1.394.1 Available under license :

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src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl)

# 1.395 python-certifi 2019.11.28

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

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

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

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

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

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

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

# 1.396 msgpack 0.6.2

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

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# 1.398 pem 21.1.0

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## 1.399 urllib3 1.25.3

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <[andrey.petrov@shazow.net](mailto:andrey.petrov@shazow.net)>

## Contributors

In chronological order:

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

\* HTTPS patch (which inspired HTTPSConnectionPool)

- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSPool
- \* Basic-authenticated HTTPSPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSPool
- \* 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>>
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- \* Google App Engine documentation
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
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- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>

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- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
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- \* David Foster <<http://dafoster.net/>>

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  - \* HTTPResponse contains the last Retry object.
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  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
- \* Akamai

(through Jess Shapiro) <jshapiro@akamai.com>

- \* Ongoing maintenance; 2017-2018

- \* Dominique Leuenberger <dimstar@opensuse.org>

- \* Minor fixes in the test suite

- \* Will Bond <will@wbond.net>

- \* Add Python 2.6 support to ``contrib.securetransport``

- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>

- \* using auth info for socks proxy

- \* Chris Wilcox <git@crwilcox.com>

- \* Improve contribution guide

- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- \* Bruce Merry <<https://www.brucemerry.org.za>>

- \* Fix leaking exceptions when system calls are interrupted with zero timeout

- \* Hugo van Kemenade <<https://github.com/hugovk>>

- \* Drop support for EOL Python 2.6

- \* Tim Bell <<https://github.com/timb07>>

- \* Bugfix for responses with Content-Type: message/\* logging warnings

- \* Justin Bramley <<https://github.com/jbramleycl>>

- \* Add ability to handle multiple Content-Encodings

- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>

- \* Remove Authorization header

regardless of case when redirecting to cross-site

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

- \* [Brief summary of your changes]

# 1.400 python-requests 2.22.0

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SOFTWARE.

# Contributions to the urllib3 project

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- \* victor.vde <<http://code.google.com/u/victor.vde/>>
- \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- \* Code review, PEP8 compliance, benchmark fix
  
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- \* Bugfixes, suggestions, Requests integration
  
- \* georgemarshall <<https://github.com/georgemarshall>>
- \* Bugfixes, Improvements and Test coverage
  
- \* Thomas Kluyver <thomas@kluyver.me.uk>
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- \* 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

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- \* Chris Wilcox <git@crwilcox.com>  
\* Improve contribution guide  
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\* 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]

## 1.402 python-pip 19.3.1

## 1.402.1 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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|---------|--------------|------|-------|---------------------|
| 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                 |
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| 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 |
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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 | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| from           |           | compatible? (1) |            |         |
|----------------|-----------|-----------------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995       | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999       | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000            | CNRI       | no      |
| 2.0            | 1.6       | 2000            | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001            | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001            | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001            | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001            | PSF        | yes     |
| 2.2            | 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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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  
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## 1.403 python-pip 19.2.3

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

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

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

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| 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.

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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     |
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| 2.4.4          | 2.4.3     | 2006      | PSF        | yes     |
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| 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     |
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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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# 1.408 urllib3 1.24.2

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# Contributions to the urllib3 project

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\* NTLM-authenticated HTTPSConnectionPool

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

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSPool

\* 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

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

\* Bugfixes, Improvements and Test

coverage

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\* 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 <slingam@cs.stanford.edu>

\* Support for explicitly closing pooled connections

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\* 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](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto: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](mailto: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](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto: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]

## 1.409 cyrus-sasl 2.1.27

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* Rob Earhart
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# 1.411 rfc3987 1.3.7

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## 1.412 loader-utils 1.2.3

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

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

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

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- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/biffh.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/sheet.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/xldate.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/formula.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/formatting.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/compdoc.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/book.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/\_\_init\_\_.py

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- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_formulas.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_cell.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_formats.py
- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_workbook.py
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- \* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/examples/xlrdnameAPIdemo.py

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## 1.415 django 2.1.4

### 1.415.1 Available under license :

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====



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=====

Advice for new contributors

=====

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

.. admonition:: Basic tools and workflow

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

First steps

=====

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

\* \*\*Sign the Contributor License Agreement\*\*

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

\* \*\*Triage tickets\*\*



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

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

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

**\*\*Keep old patches up to date\*\***

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

**\*\*Write some documentation\*\***

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

.. note::

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

.. `_reports page`: <https://code.djangoproject.com/wiki/Reports>

.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

.. `_Contributor License Agreement FAQ`: <https://www.djangoproject.com/foundation/cla/faq/>

.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

Guidelines

=====

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

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

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

**\* \*\*Analyze tickets' context and history\*\***

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

**\* \*\*Start small\*\***

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

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

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

**\* \*\*Be bold! Leave feedback!\*\***

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

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

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

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

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

**\*\*Be rigorous\*\***

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

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

.. \_new-contributors-faq:

## FAQ

===

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

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

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

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

## A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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

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

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

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## 1.426 openpyxl 2.5.6

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## 1.427 python-ldap 3.1.0

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## 1.428 djangoestframework 3.8.2

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package licensing

```
import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

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

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

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

 return license, nil
}
```

```

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

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

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

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

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

 key := keys[0]

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

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

```

```

checkRes := new(model.CheckResponse)

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

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

return checkRes, nil
}

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

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
 "key_id": license.KeyID,
}, "decoding license authorization
failed")
}
return decoded, nil
}

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

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating

```

```

// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
 return errors.Wrap(err, errors.Fields{"token": token})
 }

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

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

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

 return nil
}

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

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

```

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

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
 Expiration time.Time `json:"expiration"`
 Token string `json:"token"`
 MaxEngines int `json:"maxEngines"`
 ScanningEnabled bool `json:"scanningEnabled"`
 Type string `json:"licenseType"`
 Tier string `json:"tier"`
}

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

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

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

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

 return true, ""
}
```

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package engine

```
import (
```

```
"time"
```

```
"github.com/docker/cli/cli/command/formatter"
```

```
"github.com/docker/cli/internal/licenseutils"
```

```
"github.com/docker/licensing/model"
```

```
)
```

```
const (
```

```
 defaultSubscriptionsTableFormat = "table"
```

```
 {{{.Num}}} \t {{{.Owner}}} \t {{{.ProductID}}} \t {{{.Expires}}} \t {{{.ComponentsString}}}
```

```
 defaultSubscriptionsQuietFormat = "{{{.Num}}}: {{{.Summary}}}"
```

```
 numHeader = "NUM"
```

```
 ownerHeader = "OWNER"
```

```
 licenseNameHeader = "NAME"
```

```
 idHeader = "ID"
```

```
 dockerIDHeader = "DOCKER ID"
```

```
 productIDHeader = "PRODUCT ID"
```

```
 productRatePlanHeader = "PRODUCT RATE PLAN"
```

```
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
```

```
 startHeader = "START"
```

```
 expiresHeader = "EXPIRES"
```

```
 stateHeader = "STATE"
```

```
 eusaHeader = "EUSA"
```

```
 pricingComponentsHeader = "PRICING COMPONENTS"
```

```
)
```

```
// NewSubscriptionsFormat returns a Format for rendering using a license Context
```

```
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format
```

```
{
```

```
 switch source {
```

```
 case formatter.TableFormatKey:
```

```
 if quiet {
```

```
 return defaultSubscriptionsQuietFormat
```

```
 }
```

```
 return defaultSubscriptionsTableFormat
```

```
 case formatter.RawFormatKey:
```

```

if quiet {
 return `license: {{.ID}}`
}
return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
}
return formatter.Format(source)
}

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

```

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Protocol Buffers for Go with Gadgets

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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))
 }
}

```

# 1.430 python-certifi 2019.09.11

## 1.430.1 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 \$

# 1.431 python-certifi 2019.06.16

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## 1.433 libatomic 7.6.10

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## 1.435 browserify-des 1.0.2

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## 1.438 open-vm-tools 10.3.5-10430147

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Open-vm-tools v10.3.0

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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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## 1.440 python-certifi 2019.11.28

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:  
<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  
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@(#) \$RCSfile: certdata.txt,v \$

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## 1.442 remove-trailing-separator 1.1

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## 1.444 wcwidth 0.1.7

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## 1.448 aioresdis 1.1.1

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# 1.450 is-buffer 1.1.6

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# 1.452 json5 1.0.1

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# 1.453 icss-replace-symbols 1.1.0

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# 1.454 lodash 4.17.11

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## 1.458 python-setuptools 40.2.0.post20220315

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## 1.459 zlib 1.2.11

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

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

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

\*/

# 1.460 pyyami 3.13

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# 1.462 html5lib 1.0.1

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## 1.463 cryptography 3.3.2

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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(\'\\\\?\' +
HIELDS2$);\nconst MAILTO_URI = new RegExp(\'^mailto\\\\\\\\:\'
+ TO$ + \'?\' + HIELDS$ + \'?$\');\nconst UNRESERVED = new RegExp(UNRESERVED$, \'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$, \'[\\\\\\\\]\' , '[\\\\\\\\][^\']\', DTEXT_NO_OBS$, \'[\\\\\\\\][^\']\'), \'g\');\nconst
NOT_HFNAME = new RegExp(merge(\'^[^\']\', UNRESERVED$, SOME_DELIMS$), \'g\');\nconst
NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\'^\' + TO$ + \'$\');\nconst HIELDS = new
RegExp(\'^\' + HIELDS2$ + '$\');\nfunction decodeUnreserved(str:string):string {\nconst decStr =
pctDecChars(str);\nreturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\nconst
handler:URISchemeHandler<MailtoComponents>= {\nscheme: \'mailto\',\ntparse: function
(components:URIComponents, options:URIOptions):MailtoComponents {\nconst mailtoComponents =
components as MailtoComponents;\ntconst to = mailtoComponents.to
= (mailtoComponents.path ? mailtoComponents.path.split(\',\') : []);\ntmailtoComponents.path =
undefined;\ntif (mailtoComponents.query) {\ntlet unknownHeaders = false;\ntconst
headers:MailtoHeaders = {};\ntconst hfields = mailtoComponents.query.split(\'&\');\ntfor (let x = 0, xl =
hfields.length; x < xl; ++x) {\ntconst hfield = hfields[x].split(\'=\');\ntswitch (hfield[0]) {\ntcase
\'to\':\ntconst toAddrs = hfield[1].split(\',\');\ntfor (let x = 0, xl = toAddrs.length; x < xl; ++x)
{\nttto.push(toAddrs[x]);\ntbreak;\ntcase
\'subject\':\ntmailtoComponents.subject = unescapeComponent(hfield[1],
options);\ntbreak;\ntcase \'body\':\ntmailtoComponents.body =
unescapeComponent(hfield[1], options);\ntbreak;\ntdefault:\ntunknownHeaders =
true;\ntheaders[unescapeComponent(hfield[0], options)]
= unescapeComponent(hfield[1], options);\ntbreak;\nt}\ntif (unknownHeaders)
mailtoComponents.headers = headers;\nt}\ntmailtoComponents.query = undefined;\ntfor (let x = 0, xl =
to.length; x < xl; ++x) {\ntconst addr = to[x].split(\'@\');\nttaddr[0] =
unescapeComponent(addr[0]);\ntif (!options unicodeSupport) {\nt//convert Unicode IDN -> ASCII
IDN\ntytry {\nttaddr[1] = punycode.toASCII(unescapeComponent(addr[1],
options).toLowerCase());\nt} catch (e) {\ntmailtoComponents.error = mailtoComponents.error || \'Email
address's domain name can not be converted to ASCII via punycode: \' + e;\nt}\nt else {\nttaddr[1] =
unescapeComponent(addr[1], options).toLowerCase();\nt}\nttto[x] = addr.join(\'@\');\nt}\ntreturn
mailtoComponents;\nt},\ntserialize: function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\nconst components
= mailtoComponents as URIComponents;\ntconst to = toArray(mailtoComponents.to);\ntif (to) {\ntfor (let x
= 0, xl = to.length; x < xl; ++x) {\ntconst toAddr = String(to[x]);\ntconst atIdx =
toAddr.lastIndexOf(\'@\');\ntconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\ntlet
domain = toAddr.slice(atIdx + 1);\nt//convert IDN via punycode\ntytry {\ntdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\nt}
catch (e) {\ntcomponents.error = components.error || \'Email address's domain name can not be converted to
\' + (!options.iri ? \'ASCII\' : \'Unicode\') + \' via punycode: \' + e;\nt}\nttto[x] = localPart + \'@\' +
domain;\nt}\ntcomponents.path = to.join(\',\');\nt}\ntconst headers = mailtoComponents.headers
= mailtoComponents.headers || {};\ntif (mailtoComponents.subject) headers[\'subject\'] =
mailtoComponents.subject;\ntif (mailtoComponents.body) headers[\'body\'] =
```

```
mailtoComponents.body;\n\n\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,\ndecodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t'\n\t\t\t\t\t'=\n\t\t\t\t\t'+\n\t\t\t\t\t'\n\t\t\t\t\ttheaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t\t\t);\n\t\t\t\t}\n\t\t\t}\n\t\t\tif (fields.length){\n\t\t\t\tcomponents.query = fields.join('&');\n\t\t\t\t}\n\t\t\treturn components;\n\t\t}\n\t}\n\nexport default handler;"\nimport { URISchemeHandler, URIComponents, URIOptions } from '..\/uri';\n\nimport http from '\n\nhttp';\n\nconst handler:URISchemeHandler = {\n\ttscheme : \"https\",\n\ttdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;"\nimport { URISchemeHandler, URIComponents, URIOptions } from '..\/uri';\n\nconst handler:URISchemeHandler = {\n\ttscheme : \"http\",\n\ttdomainHost : true,\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t\t//report missing host\n\t\t\tif (!components.host) {\n\t\t\t\tcomponents.error = components.error || "HTTP URIs must have a host.";\n\t\t\t\t}\n\t\t\treturn components;\n\t\t},\n\t\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t\t//normalize the default port\n\t\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\"){\n\t\t\t\tcomponents.port = undefined;\n\t\t\t}\n\t\t\t//normalize the empty path\n\t\t\tif (!components.path){\n\t\t\t\tcomponents.path = \"\";\n\t\t\t}\n\t\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t\t//and not the HTTP spec.\n\t\t\treturn components;\n\t\t};\n\t}\n\nexport default handler;"\n/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n *\n * @author Gary Court\n *\n * @see http://github.com/garycourt/uri-js\n *\n *\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:\n *\n * 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.\n *\n * 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY GARY COURT ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GARY COURT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Gary Court.\n *\n\nimport URI_PROTOCOL from '\n\nregexps-uri';\nimport IRI_PROTOCOL from '\n\nregexps-iri';\nimport punycode from '\n\npunycode';\nimport { toUpperCase, typeof, assign } from '\n\nutil';\n\nexport interface URIComponents {\n\ttscheme?:string;\n\ttuserinfo?:string;\n\tthost?:string;\n\ttport?:number|string;\n\ttpath?:string;\n\ttquery?:string;\n\ttfragment?:string;\n\ttreference?:string;\n\tterror?:string;\n}\n\nexport interface URIOptions {\n\ttscheme?:string;\n\ttreferance?:string;\n\tttolerant?:boolean;\n\ttabsolutePath?:boolean;\n\ttiri?:boolean;\n\ttunicodeSupport?:boolean;\n\ttdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
```

```

URIComponents = URIComponents> {\ntscheme:string;\ntpase(components:ParentComponents,
options:Options):Components;\ntserialize(components:Components,
options:Options):ParentComponents;\ntunicodeSupport?:boolean;\ntdomainHost?:boolean;\ntabsolutePath?:boole
an;\n}\n\nexport interface URIRegExps {\ntNOT_SCHEME : RegExp,\ntNOT_USERINFO
: RegExp,\ntNOT_HOST : RegExp,\ntNOT_PATH : RegExp,\ntNOT_PATH_NOScheme :
RegExp,\ntNOT_QUERY : RegExp,\ntNOT_FRAGMENT : RegExp,\ntESCAPE : RegExp,\ntUNRESERVED :
RegExp,\ntOTHER_CHARS : RegExp,\ntPCT_ENCODED : RegExp,\ntIPV4ADDRESS :
RegExp,\ntIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES: {[scheme:string]:URISchemeHandler} =
{};\n\nexport function pctEncChar(chr:string):string {\ntconst c = chr.charCodeAt(0);\ntlet e:string;\n\nif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();\ntelse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\ntelse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\ntelse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\nreturn
e;\n}\n\nexport function pctDecChars(str:string):string {\ntlet newStr = \"\";\ntlet i
= 0;\ntconst il = str.length;\n\nwhile (i < il) {\ntconst c = parseInt(str.substr(i + 1, 2), 16);\n\nif (c < 128)
{\nt\t\tnewStr += String.fromCharCode(c);\nt\t\ti += 3;\nt\t}\ntelse if (c >= 194 && c < 224) {\nt\t\tif ((il - i)
>= 6) {\nt\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\nt\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) |
(c2 & 63));\nt\t\t\t} else {\nt\t\t\t\tnewStr += str.substr(i, 6);\nt\t\t\t\ti += 6;\nt\t\t}\nt\t\telse if (c >= 224) {\nt\t\t\t\tif
((il - i) >= 9) {\nt\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\nt\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2),
16);\nt\t\t\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\nt\t\t\t\t\t} else
{\nt\t\t\t\t\t\tnewStr += str.substr(i, 9);\nt\t\t\t\t\t\ti += 9;\nt\t\t\t\t\t}\nt\t\t\t\t\tnewStr += str.substr(i, 3);\nt\t\t\t\t\ti +=
3;\nt\t\t\t\t\t}\nt\t\t\t\t}\nt\t\t\t}\n\nreturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\ntfunction
decodeUnreserved(str:string):string {\ntconst decStr = pctDecChars(str);\ntreturn
(!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\nif (components.scheme) components.scheme =
String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"%\");\n\nif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\nif (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\nif (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\nif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\nif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\nreturn components;\n}\n\nfunction _stripLeadingZeros(str:string):string {\ntreturn
str.replace(/^0*(.*)/, \"%1\");\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\ntconst matches = host.match(protocol.IPV4ADDRESS) || [];\ntconst [, address] = matches;\n\nif (address)
{\nt\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\nt\t} else {\nt\t\treturn host;\nt\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\ntconst matches =
host.match(protocol.IPV6ADDRESS)
|| [];\ntconst [, address, zone] = matches;\n\nif (address) {\ntconst [last, first] =
address.toLowerCase().split(\"::\").reverse();\ntconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) :

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[];\n\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 === '') {\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\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\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\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\t}\n\n\tconst URI_PARSE =
/^?(?:(\\W|#)+):(?:(\\W|(?!(\\W|#@)*)(\\[(\\W|#\\W)]+\\)[^\\W#.*:]*(?:\\\\.(\\d*))?)|(?!(\\W|#)*(?:\\[(\\W|#\\W)]+\\)[^\\W#.*:]*)|(?!(\\W|#)*\\.\\.|\\r))*$/i;\n\tconst NO_MATCH_IS_UNDEFINED

= (<RegExpMatchArray>(\\w).match(/(\\w)/))[1] === undefined;\n\n\texport function parse(uriString:string,
options:URIOptions = {}):URIComponents {\n\t\tconst components:URIComponents = {};\n\t\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\t\tif (options.reference === 'suffix') uriString =
(options.scheme ? options.scheme + ':' : '') + '/' + uriString;\n\t\tconst matches =
uriString.match(URI_PARSE);\n\t\tif (matches) {\n\t\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t\t\t//store each
component\n\t\t\t\tcomponents.scheme = matches[1];\n\t\t\t\tcomponents userinfo = matches[3];\n\t\t\t\tcomponents.host =
matches[4];\n\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6] ||
'';\n\t\t\t\tcomponents.query = matches[7];\n\t\t\t\tcomponents.fragment = matches[8];\n\t\t\t\t//fix port
number\n\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\tcomponents.port = matches[5];\n\t\t\t\t\t} else {
//IE FIX for
improper RegExp matching\n\t\t\t\t\tstore
each component\n\t\t\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\t\t\tcomponents userinfo =
(uriString.indexOf('@') !== -1 ? matches[3] : undefined);\n\t\t\t\t\tcomponents.host = (uriString.indexOf('/') !== -
1 ? matches[4] : undefined);\n\t\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\t\tcomponents.path = matches[6]
|| '';\n\t\t\t\t\tcomponents.query = (uriString.indexOf('?') !== -1 ? matches[7] :
undefined);\n\t\t\t\t\tcomponents.fragment = (uriString.indexOf('#') !== -1 ? matches[8] : undefined);\n\t\t\t\t\t//fix
port number\n\t\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\t\tcomponents.port =
(uriString.match(/^\\W(?:\\.\\w|\\W|\\$)?/ ? matches[4] : undefined);\n\t\t\t\t\t}\n\t\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t\t\t\t//determine reference type\n\t\t\t\t\tif (components.scheme === undefined &&
components userinfo === undefined && components.host
=== undefined && components.port === undefined && !components.path && components.query === undefined)
\n\t\t\t\t\tcomponents.reference = 'same-document';\n\t\t\t\t\t} else if (components.scheme === undefined)
\n\t\t\t\t\tcomponents.reference = 'relative';\n\t\t\t\t\t} else if (components.fragment === undefined)
\n\t\t\t\t\tcomponents.reference = 'absolute';\n\t\t\t\t\t} else {\n\t\t\t\t\tcomponents.reference = 'uri';\n\t\t\t\t\t}\n\t\t\t\t//check
for reference errors\n\t\t\t\tif (options.reference && options.reference !== 'suffix' && options.reference !==
components.reference) {\n\t\t\t\t\tcomponents.error = components.error || 'URI is not a ' + options.reference + '
reference.';\n\t\t\t\t\t}\n\t\t\t\t\tfind scheme handler\n\t\t\t\t\tconst schemeHandler = SCHEMES[(options.scheme ||
components.scheme || '').toLowerCase()];\n\t\t\t\t\t//check if scheme can't handle IRIs\n\t\t\t\t\tif (!options.unicodeSupport && (!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t\t\t\tif host component is a
domain name
```

[illegible]

[illegible]

```

*\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >=
0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst
baseMinusTMin
= base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*-----
-----*/\n\n/**\n * A generic error utility function.\n * @private\n *
@param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error
message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map`
utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback
The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--> 0) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to
work with domain name strings or email\n * addresses.\n * @private\n * @param
{String} domain The domain name or email address.\n * @param {Function} callback The function that gets called
for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n
*/\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycode. Leave\n\t\t// the local part (i.e. everything
up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8
compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\x2E');\n\tconst labels = string.split('.');\n\tconst
encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric
code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function
will convert a pair of surrogate halves (each of which\n * UCS-2 exposes
as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see
<https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n *
@param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n
*/\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile
(counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=
0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low
surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an
unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a
surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t}\n\t\telse {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of
numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n *
@param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string
(UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point
into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst
basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif
(codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif
(codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a
digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The
numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n *
representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the
uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and
`digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or
A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n}\n\n/**\n * Bias
adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n *

```



```
@private\n * /nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta / numPoints);\n\tfor (/* no initialization */;\n\tdelta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta / baseMinusTMin);\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n /**\n * Converts a Punycode string of ASCII-only symbols\n * to a string of Unicode 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 */\n 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 points\n\t\t// before the last delimiter, or `0` if there is none, then copy 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\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 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`, which gets added to `i`.\n\t\t\t// The overflow checking is easier if we increase `i` as we go, then subtract off its starting 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\ttw *= 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`, 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\ttn += floor(i / out);\n\t\t\t\ti %= 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}\n\t\treturn String.fromCodePoint(...output);\n\t}\n\n /**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\n encode = function(input) {\n\t\tconst output = [];\n\t\t// Convert the input in UCS-2 to an array of Unicode code points.\n\t\tinput = ucs2decode(input);\n\t\t// Cache the length.\n\t\tlet inputLength = input.length;\n\t\t// Initialize the state.\n\t\tlet n = initialN;\n\t\tlet delta = 0;\n\t\tlet bias = initialBias;\n\t\t// Handle the basic code points.\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < 0x80) {\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\t\tlet basicLength = output.length;\n\t\tlet handledCPCount = basicLength;\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength` is the number of basic code points.\n\t\t// Finish the basic string with a delimiter unless it's empty.\n\t\tif (basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount < inputLength) {\n\t\t\t// All non-basic code points < n have been handled already. Find the next larger one:\n\t\t\tlet m = maxInt;\n\t\t\tfor (const currentValue of input) {\n\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\ttm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0> but guard against overflow.\n\t\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\ttn = m;\n\t\t\tfor (const currentValue of input) {\n\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\tthrow('overflow');\n\t\t\t\t}\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\t\tlet q = delta;\n\t\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t + qMinusT %
```

[illegible]

```

subexp(H16$ + \"\\:\") + \"{6}\" + LS32$), // 6(h16 \":\") ls32\\n\\t\\tIPV6ADDRESS2$
= subexp(
\"\\:\":\" 5(h16 \":\") ls32\\n\\t\\tIPV6ADDRESS3$ = subexp(subexp(
H16$) + \"?\\:\":\" +
subexp(H16$ + \"\\:\":\" + \"{4}\" + LS32$), // h16] \":\":\" 4(h16 \":\") ls32\\n\\t\\tIPV6ADDRESS4$ =
subexp(subexp(subexp(H16$ + \"\\:\":\" + \"{0,1}\" + H16$) + \"?\\:\":\" + subexp(H16$ + \"\\:\":\" + \"{3}\" +
LS32$), // *1(h16 \":\") h16] \":\":\" 3(h16 \":\") ls32\\n\\t\\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ +
\"\\:\":\" + \"{0,2}\" + H16$) + \"?\\:\":\" + subexp(H16$ + \"\\:\":\" + \"{2}\" + LS32$), // *2(h16 \":\") h16]
\":\":\" 2(h16 \":\") ls32\\n\\t\\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ + \"\\:\":\" + \"{0,3}\" + H16$) +
\"?\\:\":\" + H16$ + \"\\:\":\" + LS32$), // *3(h16 \":\") h16] \":\":\" h16 \":\":\"
ls32\\n\\t\\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$
+ \"\\:\":\" + \"{0,4}\" + H16$) + \"?\\:\":\" + LS32$), // *4(h16 \":\") h16] \":\":\"
ls32\\n\\t\\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \"\\:\":\" + \"{0,5}\" + H16$) + \"?\\:\":\"
+ H16$), // *5(h16 \":\") h16] \":\":\" h16\\n\\t\\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ +
\"\\:\":\" + \"{0,6}\" + H16$) + \"?\\:\":\"), // *6(h16 \":\") h16]
\":\":\"\\n\\t\\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"\\\"\\\")),\\n\\t\\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"\\\" + PCT_ENCODED$) +
\"+\\\"), //RFC 6874\\n\\t\\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\"%25\" + ZONEID$), //RFC
6874\\n\\t\\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\"%25\\\"%(?!\" + HEXDIG$$ +
\"{2})\")) + ZONEID$), //RFC 6874, with relaxed
parsing rules\\n\\t\\tIPV6FUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\"\\\" + merge(UNRESERVED$$,
SUB_DELIM$$, \"[\\:\":\")) + \"+\\\"),\\n\\t\\tIP_LITERAL$ = subexp(\"\\\"[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"\\\" + IPV6ADDRESS$ + \"\\\" + IPV6FUTURE$) + \"\\\"\\\"), //RFC 6874\\n\\t\\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"\\\" + merge(UNRESERVED$$, SUB_DELIM$$)) + \"*\\\"),\\n\\t\\tHOST$ =
subexp(IP_LITERAL$ + \"\\\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \"\\\" + \"\\\" +
REG_NAME$),\\n\\t\\tPORT$ = subexp(DIGIT$ + \"*\\\"),\\n\\t\\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\" + \"?\" + HOST$ + subexp(\"\\:\":\" + PORT$) + \"?\\\"),\\n\\t\\tPCHAR$ = subexp(PCT_ENCODED$ + \"\\\" +
merge(UNRESERVED$$, SUB_DELIM$$, \"[\\:\":\"@]\")),\\n\\t\\tSEGMENT$ = subexp(PCHAR$ +
\"*\\\"),\\n\\t\\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\\\"),\\n\\t\\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"\\\" + merge(UNRESERVED$$, SUB_DELIM$$, \"[\\:\":\"@]\")) +
\"+\\\"),\\n\\t\\tPATH_ABEMPTY$ = subexp(subexp(\"\\\"\\\" + SEGMENT$) + \"*\\\"),\\n\\t\\tPATH_ABSOLUTE$
= subexp(\"\\\"\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\\\"),
//simplified\\n\\t\\tPATH_NOSCHEM$ = 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_NOSCHEM$ + \"\\\" + 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_NOSCHEM$ + \"\\\" + PATH_EMPTY$),\\n\\t\\tRELATIVE$
= subexp(RELATIVE_PART$ + subexp(\"\\\"?\" + QUERY$) + \"?\" + subexp(\"\\\"#\" + FRAGMENT$) +
\"?\\\"),\\n\\t\\tURI_REFERENCES$ = subexp(URI$ + \"\\\" + RELATIVE$),\\n\\t\\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\:\":\" + HIER_PART$ + subexp(\"\\\"?\" + QUERY$) + \"?\\\"),\\n\\n\\t\\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \"\\\"\\\" + subexp(subexp(\"\\\"\\\"\\\" + subexp(\"(\" + USERINFO$ + \"\\\"@\" + \"?\" + \" +
HOST$ + \"\\\"))\" + subexp(\"\\:\":\" + PORT$ + \"\\\"))\" + \"?\\\"))\" + \"?\" + PATH_ABEMPTY$ + \"\\\" +

```

[illegible]

ve","target","fragment","relative","base","userinfo","removeDotSegments","charAt","skipNormalization","uriToken  
s","s","authority","absolutePath","reference","\_recomposeAuthority","protocol","IPV6ADDRESS","test","output","  
Error","input","im","RDS5","pop","RDS3","RDS2","RDS1","\$1","\$2","\_normalizeIPv6","\_normalizeIPv4","\_","uri  
String","isNaN","indexOf","parseInt","NO\_MATCH\_IS\_UNDEFINED","URI\_PARSE","newHost","zone","newFi  
rst","newLast","longestZeroFields","index","b","a","allZeroFields","sort","acc","lastLongest","field","reduce","field  
Count","isLastFieldIPv4Address","firstFields","lastFields","lastFieldsStart","Array","IPV4ADDRESS","last","map"  
,"\_stripLeadingZeros","first","address","reverse","NOT\_FRAGMENT","NOT\_QUERY","NOT\_PATH","NOT\_PA  
TH\_NOScheme","NOT\_HOST","NOT\_USERINFO","NOT\_SCHEME","\_normalizeComponentEncoding","new  
Str","substr","i","fromCharCode","c","c2","c3","il","chr","charCodeAt","encode","decode","ucs2encode","ucs2deco  
de","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCP  
CountPlusOne","basicLength","stringFromCharCode","digitToBasic","q","floor","qMinusT","baseMinusT","t","k",  
"bias","tMin","tMax","currentValue","maxInt","m","inputLength","delimiter","initialBias","initialN","fromCodePoi  
nt","splice","out","oldi","w","digit","basicToDigit","basic","j","baseMinusTMin","skew","numPoints","firstTime","  
damp","flag","codePoint","array","value","extra","counter","result","encoded","labels","fn","regexSeparators","part  
s","RangeError","errors","type","Math","buildExps","IPV6ADDRESS\$","ZONEID\$","IPV4ADDRESS\$","RESER  
VED\$","SUB\_DELIMS\$","IPPRIVATE\$","ALPHA\$","DIGIT\$","AUTHORITY\_REF\$","USERINFO\$","HO  
ST\$","PORT\$","SAMEDOC\_REF\$","FRAGMENT\$","ABSOLUTE\_REF\$","SCHEME\$","PATH\_ABEMPTY\$",  
"PATH\_ABSOLUTE\$","PATH\_ROOTLESS\$","PATH\_EMPTY\$","QUERY\$","RELATIVE\_REF\$","PATH\_NO  
SCHEME\$","GENERIC\_REF\$","ABSOLUTE\_URI\$","HIER\_PART\$","URI\_REFERENCES\$","URI\$","RELATI  
VES\$","RELATIVE\_PART\$","AUTHORITY\$","PCHAR\$","PATH\$","SEGMENT\_NZ\$","SEGMENT\_NZ\_NCS\$",  
"SEGMENT\$","IP\_LITERAL\$","REG\_NAMES\$","IPV6ADDRZ\_RELAXED\$","IPVFUTURE\$","IPV6ADDRES  
S1\$","IPV6ADDRESS2\$","IPV6ADDRESS3\$","IPV6ADDRESS4\$","IPV6ADDRESS5\$","IPV6ADDRESS6\$","I  
PV6ADDRESS7\$","IPV6ADDRESS8\$","IPV6ADDRESS9\$","H16\$","LS32\$","DEC\_OCTET\_RELAXED\$","DE  
C\_OCTETS\$","UCSCHAR\$","GEN\_DELIMS\$","SP\$","DQUOTE\$","CR\$","obj","key","source","setInterval",  
"call","prototype","o","Object","shift","sets"],"mappings":":;;;;;;;;;AUAA,SAAA4E,KAAA,GAAA;sCAAyBkP,IAAz  
B;YAAA;;;QACKA,KAAK/R,MAAL,GAAC,CAAIb,EAAqB;aAcf,CAAL,IAAU+R,KAAK,CAAL,EAAQrQ,KA  
AR,CAAC,CAAd,EAAiB,CAAC,CAAIb,CAAV;YACMK,KAAKqQ,KAAK/R,MAAL,GAAC,CAAzB;aACK,IAA  
Igb,IAAI,CAAb,EAAgBA,IAAIe,EAApB,EAAwB,EAAEf,CAA1B,EAA6B;iBACvBA,CAAL,IAAU+Q,KAAK/Q  
,CAAL,EAAQU,KAAAR,CAAC,CAAd,EAAiB,CAAC,CAAIb,CAAV;;aAEIK,EAAL,IAAWgQ,KAAKhQ,EAAL,E  
AASL,KAAAT,CAAe,CAAf,CAAX;eACoQq,KAAKhS,IAAL,CAAU,EAAY,CAAP;KAPD,MAQO;eACCgS,KAA  
K,CAAL,CAAP;;;AAIF,AAAA,SAAA3O,MAAA,CAAuBV,GAAvB,EAAA;WACQ,QAAQA,GAAR,GAAC,GA  
ArB;;AAGD,AAAA,SAAAUb,MAAA,CAAuB2N,CAAvB,EAAA;WACQA,MAAM3S,SAAN,GAaKb,WAAIB,G  
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CAA/B,EAaKcZp,KAAIC,CAAwC,GAAXc,EAA6C8D,GAA7C,GAAmD9D,KAAAnD,CAAYd,GAaZD,EAA8D2  
P,KAA9D,GAAsEnT,WAAtE,EAA9D;;AAGD,AAAA,SAAA2B,WAAA,CAA4BoC,GAA5B,EAAA;WACQA,IA  
AIpC,WAAJ,EAAP;;AAGD,AAAA,SAAA0B,OAAA,CAAwBsP,GAAXb,EAAA;WACQA,QAAQrS,SAAR,IAA  
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AtB,IAAkCsR,IAAIInP,KAAtC,IAA+CmP,IAAIG,WAAAnD,IAAkEH,IAAIL,IAAtE,GAA6E,CAACJ,GAAD,CAA7  
E,GAAqFnJ,MAAMwJ,SAAN,CAAgBjQ,KAAhB,CAAsBgQ,IAAtB,CAA2BJ,GAA3B,CAAxJ,GAA4L,EAAmM;;  
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CI6M,MAAJ,EAAY;aACN,IAAMD,GAAX,IAAkBC,MAAIb,EAA0B;gBACrBD,GAAJ,IAAWC,OAAOD,GAAP  
,CAAX;;;WAGKD,GAAP;;ADnCD,SAAA3D,SAAA,CAA0BrK,KAA1B,EAAA;QAE4K,UAAU,UADX;QAE  
mD,MAAM,SAFP;QAGCID,UAAU,OAHX;QAICiD,WAAW,SAJZ;QAKC/N,WAAWR,MAAMsL,OAAO,EAaE  
,UAAf,CALZ;;WAMQ,SANR;QAOCgD,OAAO,SAPR;QAQCjO,eAAeE,OAAOA,OAAO,YAAYC,QAAZ,GAAu  
B,GAAvB,GAA6BA,QAA7B,GAAwCA,QAAxC,GAAmD,GAAAnD,GAAyDA,QAAzD,GAAoEA,QAA3E,IAAuF  
,GAAvF,GAA6FD,OAAO,gBAAGBC,QAAhB,GAA2B,GAA3B,GAAiCA,QAAjC,GAA4CA,QAAAnD,CAA7F,GA  
A4J,GAA5J,GAaKd,OAAO,MAAMC,QAAAN,GAaiBA,QAAxB,CAAzK,CARhB;;mBASgB,yBATHB;QAUC2  
K,eAAe,qCAVhB;QAWCD,aAAaIL,MAAMqO,YAAN,EAAoBID,YAApB,CAXd;QAYCiD,YAAY3N,QAAQ,6E

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AAf,EAAwB,aAAxB,CAAV,GAAMd,GAA1D,CAfX;QAgBCE,YAAYjL,OOAOA,OOAOF,eAAe,GAAf,GAAqB  
L,MAAMC,YAAN,EAAoBkL,YAapB,EAAkC,OAAlC,CAA5B,IAA0E,GAAjF,CAhBb;QAiBCgD,aAAa5N,OA  
AOA,OOAO,SAAP,IAAoB,GAAPB,GAA0BA,OOAO,WAAW+K,OAAlB,CAA1B,GAAuD,GAAvD,GAA6D/K,  
OOAO,MAAM+K,OAAN,GAAgBA,OAavB,CAA7D,GAA+F,GAA/F,GAAqG/K,OOAO,UAAU+K,OAajB,CA  
ArG,GAAiL,GAAjL,GAAuIA,OAa9I,CAjBd;QAKBC4C,qBAaQB3N,OOAOA,OOAO,SAAP,IAAoB,GAAPB,GA  
A0BA,OOAO,WAAW+K,OAAlB,CAA1B,GAAuD,GAAvD,GAA6D/K,OOAO,MAAM+K,OAAN,GAAgBA,OA  
AvB,CAA7D,GAA+F,GAA/F,GAAqG/K,OOAO,YAAY+K,OAAnB,CAArG,GAAMl,OAAnI,GAA6IA,OAAPJ,C  
AlBtB;;mBAmBgB/K,OOAO2N,qBAaQB,KAArB,GAA6BA,kBAA7B,GAakD,KAAID,GAA0DA,kBAA1D,GA  
A+E,KAA/E,GAAuFA,kBAA9F,CAnBhB;QAoBCF,OOAOzN,OAaOC,WAAW,OAAlB,CAPBR;QAqBCyN,QA  
AQ1N,OOAOA,OOAOyN,OOAO,KAAP,GAaeA,IAAtB,IAA8B,GAA9B,GAAoC/C,YAA3C,CARBT;QASBCsC,  
gBAAGbHn,OAAMeA,OOAOyN,OOAO,KAAAd,IAAuB,KAAvB,GAA+BC,KAAIG,CAtBjB;;oBAuBiB1N,OA  
wD,WAAWA,OOAOyN,OOAO,KAAAd,CAAX,GAakC,KAAIC,GAA0CC,KAAIG,CavBjB;;oBAwBiB1N,OOAO  
A,OAawCyN,IAAxC,IAAGD,SAAhD,GAA4DzN,OOAOyN,OOAO,KAAAd,CAA5D,GAAMf,KAAAnF,GAA2FC,K  
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K;;;;;;;;;SACr;YACG2I,UADH;YAEGD;EAhBK;WakBND,MAIbm;WAmBND,MAAnBM;YAoBLvI,OApbK;cAq  
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BSD-2-Clause

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

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D,IAAMC,IAC3CmE,KAAKgM,EAAQnQ,cAGb,YACaoQ,QAAUrE,EAAkBmE,EAAO,GAAlxH,aAEPd,SACa2  
H,KAAOtE,EAAkBmE,EAAO,GAAlxH,oBAGpC,IACtQD,EAAkBmE,EAAO,GAAlxH,IAAYqD,EAAkBmE,EA  
AO,GAAlxH,IAK7EqH,IAAgBF,EAAiBG,QAAUA,KAG/B9J,MAAQ5F,cAEPB,GAAlN,GAAl,EAAGD,EAAK+  
P,EAAGjQ,OA AQG,EAAID,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UAEPB,GAACKoL,E  
AAkBuE,EAAK,IAE5B5H,EAAQY,iBAQP,GAACKyC,EAAkBuE,EAAK,GAAl5H,GAAS5H,yBALxC,GAACK0I,  
EAASC,QAAQsC,EAAkBuE,EAAK,GAAl5H,GAAS5H,eAC9D,MAAO4I,KACS1G,MAAQ6M,EAAiB7M,OA A  
S,2EAA6E0G,IAM/H1J,GAACKsQ,EAAKrQ,KAAK,WAGZ4P,cAGI,SAUA,EAAmCnH,MACIDxD,GA Aa2K,E  
ACbC,EAAK9O,EAAQ6O,EAAiBC,OACbCA,EAAI,KACF,GAAl9P,GAAl,EAAGD,EAAK+P,EAAGjQ,OA AQ  
G,EAAID,IAAMC,EAAG,IACtCuQ,GAAS1L,OA AOiL,EAAG9P,IACnBwQ,EAAQD,EAAOpF,YAAY,KAC3Bs  
F,EAAaF,EAAOzQ,MAAM,EAAG0Q,GA AQ7M,QAAQ8B,GA AaL,GAACKBzB,QAAQ8B,GA Aa1E,GA Aa4C,QA  
AQ+L,GAAGbTL,GACxIsM,EAASH,EAAOzQ,MAAM0Q,EAAQ,SAItB9H,EAAQC,IAA2Ea,EAASKB,UAAUGG  
,GA AxFlH,EAASC,QAAQsC,EAAkB2E,EAAQhI,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWIC,O  
AAS,wDAA2D0F,EAAQC,IAAGB,UAAV,SAAUb,kBAAoBe,IAGzJ1J,GAACKyQ,EAAY,IAAMC,IAGhB3K,KA  
AO+J,EAAG7P,KAAK,QAGrB+P,GA AUH,EAAiBG,QAAUH,EAAiBG,WAExDH,GA AiBO,UAASJ,EAAA,QA  
AqBH,EAAiBO,SACHep,EAAiBQ,OAAML,EAAA,KAAKBH,EAAiBQ,SAExD3I,UACD,GAAMIJ,KAAQX,GA  
CdA,EAAQW,KAAUnB,GA AEmB,MACbXmM,KACNwM,EAAKhN,QAAQ8B,GA AaL,GAACKBzB,QAAQ8B,G  
AAa1E,GA Aa4C,QAAQgM,GAAYvL,GACIG,IACA4L,EAAQW,GAAMhN,QAAQ8B,GA AaL,GAACKBzB,QAA  
Q8B,GA Aa1E,GA Aa4C,QAAQiM,GA AxL,UAl3GsD,GA AO7H,WACCqG,MAAQwB,EAAOZH,KAAK,MAGz  
BiF,II/JH0L,GAAY,kBAIZtB,WACI,YAED,SAAUpK,EAA0BwD,MACrCIC,GA AUtB,EA AWa,MAAQb,EA AW  
a,KAAKT,MAAMsL,IACrDC,EAAgB3L,KAehBsB,EAAS,IACNhB,GAASKD,EAAQID,QAAUqL,EA AcrL,QAA  
U,MACnDsL,EAAmTK,EAAQ,GAAG1F,cACjBiQ,EAAMvK,EAAQ,GACdwK,EA AexL,EAAf,KAAyBkD,EAA

```
QoI,KAAAOA,GACxClH,EAAgBC,EAAQ2H,KAEhBF,IAMMAA,IACNC,IAAOhL,KAAOzF,UAEjB8I,M
ACaA,EAACZ,MAAMqI,EAAenI,WAGtC1F,MAAQ6N,EAAC7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAA6BnI,
MAC5CID,GAASKD,EAAQID,QAAUqL,EAAcrL,QAAU,MACnDsL,EAAMD,EAACc,IACpBE,EAAexL,EAAf,
KAAyBkD,EAAQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,EAE1B5H,OACaA,EAACqB,UAAUoG,EAAenI,O
AGIDuI,GAAGBJ,EACHBE,EAAMF,EAAcE,aACZhL,MAAU+K,GAAOpI,EAAQoI,KAAvC,IAA8CC,EAEvCE,I
CxDHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAiBN,WACRO,KAAOD,EAAeJ,MA
CtBA,IAAMzQ,UAEhBoI,EAAQwC,UAAciG,EAAeC,MAASD,EAAeC,KAAK9L,MAAM4L,QAC7DIO,MAAQ
mO,EAAenO,OAAS,sBAGzCmO,aAGI,SAAUA,EAA+BzI,MAC9CmI,GAAGBM,WAERJ,KAAOI,EAAeC,MAA
Q,IAAIItQ,cACzC+P,GC5BTxH,GAAQKg,GAAK/J,QAAU+J,GAEvBIG,EACQgI,GAAM7L,QAAU6L,GAExBhI,
EACQiI,GAAO9L,QAAU8L,GAezBjI,EACQki,GAAl/L,QAAU+L,GAetBI,EACQ+H,GAAK5L,QAAU4L","file
":"dist/es5/uri.all.min.js","sourcesContent":["export
function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl
= sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] =
sets[xl].slice(1);\n\t\treturn sets.join("");\n\t} else {\n\t\treturn sets[0];\n\t}\n}\n\nexport function
subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o ===
undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\"
\").pop().split(\"/\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn
str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source)
{\n\t\t\tobj[key] = source[key];\n\t\t}\n\t\treturn obj;\n\t}","import { URIRegExps } from \"./uri\";\nimport {
merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst ALPHA$$
= \"[A-Za-z]\", \n\t\tCR$ = \"\\\\\\x0D\", \n\t\tDIGIT$$ = \"[0-9]\", \n\t\tDQUOTE$$ = \"\\\\\\x22\", \n\t\tHEXDIG$$ =
merge(DIGIT$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$ = \"\\\\\\x0A\", \n\t\tSP$ =
\"\\\\\\x20\", \n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(\"%\" +
HEXDIG$$ + HEXDIG$$)), //expanded\n\t\tGEN_DELIMS$ =
\"[!#$%&'()*+,-./:;=@_`{|}~]\", \n\t\tSUB_DELIMS$ =
\"[!@'\"";
```

```

H16$) + \'?\\:\\\\:\\\\:\\\\\' + subexp(H16$ + \'\\:\\\\:\\\\\' + \' {4}\' + LS32$), // [h16] \':\'
4(h16 \':\') ls32\\n\\t\\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' + \' {0,1}\' + H16$) +
\'?\\:\\\\:\\\\:\\\\\' + subexp(H16$ + \'\\:\\\\:\\\\\' + \' {3}\' + LS32$), // [*1(h16 \':\') h16] \':\' 3(h16 \':\')
ls32\\n\\t\\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' + \' {0,2}\' + H16$) + \'?\\:\\\\:\\\\:\\\\\' +
subexp(H16$ + \'\\:\\\\:\\\\\' + \' {2}\' + LS32$), // [*2(h16 \':\') h16] \':\' 2(h16 \':\') ls32\\n\\t\\tIPV6ADDRESS6$
= subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' + \' {0,3}\' + H16$) + \'?\\:\\\\:\\\\:\\\\\' + H16$ + \'\\:\\\\:\\\\\' + LS32$),
//[*3(h16 \':\') h16] \':\' h16 \':\' ls32\\n\\t\\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' +
\' {0,4}\' + H16$) + \'?\\:\\\\:\\\\:\\\\\' + LS32$), // [*4(h16 \':\') h16] \':\'
ls32\\n\\t\\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' + \' {0,5}\' + H16$) + \'?\\:\\\\:\\\\:\\\\\'
+ H16$), // [*5(h16 \':\') h16] \':\' h16\\n\\t\\tIPV6ADDRESS9$
= subexp(subexp(subexp(H16$ + \'\\:\\\\:\\\\\' + \' {0,6}\' + H16$) + \'?\\:\\\\:\\\\:\\\\\'), // [*6(h16
\':\') h16] \':\'\\n\\t\\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\'\\\')),\\n\\t\\tZONEID$ = subexp(subexp(UNRESERVED$$ + \'\\\' + PCT_ENCODED$) +
\'+\\\'), //RFC 6874\\n\\t\\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \'\\\'%25\\\' + ZONEID$), //RFC
6874\\n\\t\\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\'\\\'%25\\\'%25\\\'(?!\' + HEXDIG$$ +
\' {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_REFERENCES$ = subexp(URI$ + \'\\\' + RELATIVE$),\\n\\t\\tABSOLUTE_URI$ =
subexp(SCHEME$ + \'\\\'\\\'\\\'\\\' + HIER_PART$ + subexp(\'\\\'\\\'\\\'?\\\' + QUERY$) + \'?\\\'),\\n\\n\\t\\tGENERIC_REF$ =
\'^\\\'(\' + 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$ + \'\\\' +

```

[illegible]

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UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n *
@memberof punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *
@returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\t\tconst output = [];\n\t\tlet counter = 0;\n\t\tconst length = string.length;\n\t\twhile (counter < length) {\n\t\t\tconst value = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\t\tconst extra = string.charCodeAt(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 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}\n\t\t}\n\t\treturn output;\n\t}\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 representing integers) in the range `0` to `base - 1`, or `base` if the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\t\tif (codePoint - 0x30 < 0x0A) {\n\t\t\treturn codePoint - 0x16;\n\t\t}\n\t\tif (codePoint - 0x41 < 0x1A) {\n\t\t\treturn codePoint - 0x41;\n\t\t}\n\t\tif (codePoint - 0x61 < 0x1A) {\n\t\t\treturn codePoint - 0x61;\n\t\t}\n\t\treturn base;\n\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 representing integers) is `digit`, which needs to be in the range `0` to `base - 1`. If `flag` is non-zero, the uppercase form is used; else, the lowercase form is used. The behavior is undefined if `flag` is non-zero and `digit` has no uppercase form.\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};\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};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode 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\n\t\t// Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy 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 new Error('not-basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last delimiter if any basic code 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`, which gets added to `i`. The overflow checking is easier if we increase `i` as we go, then subtract off its starting 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 new Error('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 new Error('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 /

```



[illegible]

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encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\tucs2': {\n\t\t'decode': ucs2decode,\n\t\t'toUnicode':
 ucs2encode\n\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\texport default punycode;\n\t","**\n\t * URI.js\n\t *\n\t * @fileoverview An RFC 3986 compliant,
scheme extendable URI parsing/validating/resolving library for JavaScript.\n\t *\n\t * @author Gary Court\n\t *\n\t * @see http://github.com/garycourt/uri-js\n\t */\n\n\tCopyright 2011 Gary Court. All rights reserved.\n\t*\n\t * Redistribution and use in source and binary forms, with or
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SUBSTITUTE GOODS OR\n\t *\nSERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON\n\t *\nANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n\t *\nNEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n\t *\nADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.\n\t *\n\t * The views and conclusions contained in the software and documentation are those of
the\n\t * authors and should not be interpreted as representing official policies, either expressed\n\t * or implied, of
Gary Court.\n\t */\n\n\timport URI_PROTOCOL from \"./regexps-uri\";\n\timport IRI_PROTOCOL from \"./regexps-iri\";\n\timport punycode from \"punycode\";\n\timport { toUpperCase, typeOf, assign } from \"util\";\n\n\texport interface URISchemeComponents
\n\t{\n\t\t'scheme?':string;\n\t\t'userinfo?':string;\n\t\t'host?':string;\n\t\t'port?:number|string';\n\t\t'path?':string;\n\t\t'query?':string;\n\t\t'fragment?':string;\n\t\t'reference?':string;\n\t\t'terror?':string;\n\t}\n\n\texport interface URIOptions
\n\t{\n\t\t'scheme?':string;\n\t\t'reference?':string;\n\t\t'tolerant?:boolean;\n\t\t'absolutePath?:boolean;\n\t\t'tiri?:boolean;\n\t\t'tunicodeSupport?:boolean;\n\t\t'domainHost?:boolean;\n\t}\n\n\texport interface URISchemeHandler<Components extends URISchemeComponents = URISchemeComponents, Options extends URIOptions = URIOptions, ParentComponents extends URISchemeComponents = URISchemeComponents>
\n\t{\n\t\t'scheme:string';\n\t\t'parse(components:ParentComponents, options:Options):Components';\n\t\t'serialize(components:Components, options:Options):ParentComponents';\n\t\t'tunicodeSupport?:boolean';\n\t\t'domainHost?:boolean';\n\t\t'absolutePath?:boolean';\n\t}\n\n\texport interface URIRegExps { \n\t\tNOT_SCHEME : RegExp,\n\t\tNOT_USERINFO : RegExp,\n\t\tNOT_HOST : RegExp,\n\t\tNOT_PATH : RegExp,\n\t\tNOT_PATH_NOSCHEME : RegExp,\n\t\tNOT_QUERY : RegExp,\n\t\tNOT_FRAGMENT : RegExp,\n\t\tESCAPE : RegExp,\n\t\tUNRESERVED : RegExp,\n\t\tOTHER_CHARS : RegExp,\n\t\tPCT_ENCODED : RegExp,\n\t\tIPV4_ADDRESS : RegExp,\n\t\tIPV6_ADDRESS : RegExp,\n\t}\n\n\texport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\n\texport function pctEncChar(chr:string):string {\n\t\tconst c = chr.charCodeAt(0);\n\t\tlet e:string;\n\t\tif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();\n\t\telse if (c < 128)
e = \"%\" + c.toString(16).toUpperCase();\n\t\telse if (c < 2048)
e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\t\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\t\treturn e;\n\t}\n\n\texport function pctDecChars(str:string):string {\n\t\tlet newStr = '';\n\t\tlet i = 0;\n\t\tconst il = str.length;\n\t\twhile (
i < il) {\n\t\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\t\t\tif (c < 128) {\n\t\t\t\tnewStr += String.fromCharCode(c);\n\t\t\t\ti += 3;\n\t\t\t}\n\t\t\telse if (c >= 194 && c < 224) {\n\t\t\t\tif ((il - i) >= 6) {\n\t\t\t\t\tconst
```

[illegible]



```
/^\\|\\.\\.\\.\\(\\|\\$)/; \nconst RDS4 = /^\\|\\.\\.\\.?$/; \nconst RDS5 = /^\\|\\.(?:.|\\n)*?(?=\\|\\$)/; \n\nexport function
removeDotSegments(input:string):string { \n\tconst output:Array<string> = [];\n\twhile (input.length) {\n\t\tif
(input.match(RDS1))
{\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2,
\"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3, \"/\");\n\t\t\toutput.pop();\n\t\t} else if
(input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im)
\t\t\tconst s = im[0];\n\t\t\tinput = input.slice(s.length);\n\t\t\toutput.push(s);\n\t\t} else {\n\t\t\tthrow new
Error(\"Unexpected dot segment condition\");\n\t\t}\n\t}\n\treturn output.join(\"/\");\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?
IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\t//find scheme handler\n\tconst
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\t//perform scheme
specific serialization\n\tif (schemeHandler && schemeHandler.serialize)
{\n\t\tschemeHandler.serialize(components, options);\n\t\tif (components.host) {\n\t\t\tif host component is an IPv6
address\n\t\t\t(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t\t//TODO: normalize IPv6 address as per
RFC 5952\n\t\t\t}\n\t\t\tif host component is a domain name\n\t\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
punycode.toUnicode(components.host));\n\t\t\t\t} catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e;\n\t\t\t\t}\n\t\t\t\t//normalize encoding\n\t\t\t_normalizeComponentEncoding(components, protocol);\n\t\t\tif
(options.reference !== \"suffix\" && components.scheme)
\t\t\turiTokens.push(components.scheme);\n\t\t\turiTokens.push(\":\");\n\t\t\tconst
authority = _recomposeAuthority(components, options);\n\t\t\tif (authority !== undefined) {\n\t\t\t\tif (options.reference
!== \"suffix\") {\n\t\t\t\t\turiTokens.push(\"/\");\n\t\t\t\t\turiTokens.push(authority);\n\t\t\t\t\tif (components.path &&
components.path.charAt(0) !== '/') {\n\t\t\t\t\t\turiTokens.push(\"/\");\n\t\t\t\t\t}\n\t\t\t\t\tif (components.path !==
undefined) {\n\t\t\t\t\t\tlet s = components.path;\n\t\t\t\t\t\tif (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {\n\t\t\t\t\t\tts = removeDotSegments(s);\n\t\t\t\t\t}\n\t\t\t\t\t\tif (authority === undefined)
\t\t\t\t\t\tts = s.replace(/^\\\\\\\\\\\\/, \"%2F\");\n\t\t\t\t\t\t//don't allow the path to start with
\"/\"/\n\t\t\t\t\t\turiTokens.push(s);\n\t\t\t\t\t\tif (components.query !== undefined)
\t\t\t\t\t\turiTokens.push(\"?\");\n\t\t\t\t\t\turiTokens.push(components.query);\n\t\t\t\t\t\tif (components.fragment !==
undefined) {\n\t\t\t\t\t\t\turiTokens.push(\"#\");\n\t\t\t\t\t\t\turiTokens.push(components.fragment);\n\t\t\t\t\t\t}\n\t\t\t\t\t\treturn
uriTokens.join(\"/\");\n\t\t\t\t\t\t//merge tokens into
a string\n\t\t\t}\n\t\t\texport function resolveComponents(base:URIComponents, relative:URIComponents,
options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\t\t\t\tconst target:URIComponents =
{};\n\t\t\t\tif (!skipNormalization) {\n\t\t\t\t\tbase = parse(serialize(base, options), options); //normalize base
components\n\t\t\t\t\trelative = parse(serialize(relative, options), options); //normalize relative
components\n\t\t\t\t\ttoptions = options || {};\n\t\t\t\t\tif (!options.tolerant && relative.scheme) {\n\t\t\t\t\t\ttarget.scheme =
relative.scheme;\n\t\t\t\t\t\ttarget.authority = relative.authority;\n\t\t\t\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\t\t\t\ttarget.host =
relative.host;\n\t\t\t\t\t\ttarget.port = relative.port;\n\t\t\t\t\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t\t} else {\n\t\t\t\t\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t\t\t\t\t\ttarget.authority = relative.authority;\n\t\t\t\t\t\t\ttarget.userinfo =
relative.userinfo;\n\t\t\t\t\t\t\ttarget.host =
relative.host;\n\t\t\t\t\t\t\ttarget.port = relative.port;\n\t\t\t\t\t\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\t\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t\t} else {\n\t\t\t\t\t\t\tif (!relative.path) {\n\t\t\t\t\t\t\t\ttarget.path =
base.path;\n\t\t\t\t\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\tif (relative.path.charAt(0) === '/') {\n\t\t\t\t\t\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\telse {\n\t\t\t\t\t\t\t\t\t((base.userinfo !== undefined ||
base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\t\t\t\t\t\ttarget.path = '/' +
```

[illegible]

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## 1.466 chalk 2.4.2

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## 1.467 dockerpty 0.4.1

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# 1.468 color-name 1.1.3

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# 1.469 chardet 3.0.4

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Any executables

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## 1.470 python-dateutil 2.8.1

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## 1.475 pep517 0.5.0

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- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/der/encoder.py
- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test\_univ.py
- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/native/test\_decoder.py
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- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/decoder.py
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- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/test\_decoder.py
- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/ber/\_\_main\_\_.py
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Metadata-Version: 1.1

Name: pyasn1

Version: 0.4.4

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof <etingof@gmail.com>

Author-email: etingof@gmail.com

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

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Classifier: Operating System :: OS Independent

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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 become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

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

## ASN.1 applications

-----

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

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

## ASN.1 gotchas

-----

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

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

## Documentation

-----

```
.. toctree::
 :maxdepth: 2

 /pyasn1/contents
```

## Use case

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```
.. toctree::
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```

/example-use-case

## Download & Install

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```

/download

## Changes

-----

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

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..
toctree::
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```

/changelog

## License

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

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```

/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

-----

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

books:

- \* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

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

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

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

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

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

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ASN.1 library for Python

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[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)  
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)  
[![Coverage  
Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

Features

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\*

- 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

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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

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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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Found in path(s):  
\* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md

# 1.477 pep517 0.7.0

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'GKTurnBasedMatch', 'AVAudioFile', 'UIActivity', 'NSPipe', 'MKShape', 'NSMergeConflict', 'CIImage', 'HKObject', 'UIRotationGestureRecognizer', 'AVPlayerItemLegibleOutput', 'AVAssetImageGenerator', 'GCCControllerButtonInput', 'CKMarkNotificationsReadOperation', 'CKSubscription', 'MPTimedMetadata', 'NKIssue', 'UIScreenMode', 'HMAccessoryBrowser', 'GKTurnBasedEventHandler', 'UIWebView', 'MKPolyline', 'JSVirtualMachine', 'AVAssetReader', 'NSAttributedString', 'GKMatchmakerViewController', 'NSCountedSet', 'UIButton', 'WKNavigationResponse', 'GKLocalPlayer', 'MPMovieErrorLog', 'AVSpeechUtterance', 'HKStatistics', 'UILocalNotification', 'HKBiologicalSexObject', 'AVURLAsset', 'CBPeripheral', 'NSDateComponentsFormatter', 'SKSpriteNode', 'UIAccessibilityElement', 'AVAssetWriterInputGroup', 'HMZone', 'AVAssetReaderAudioMixOutput', 'NSEnumerator', 'UIDocument', 'MKLocalSearchResponse', 'UISimpleTextPrintFormatter', 'PHPhotoLibrary', 'CBService', 'UIDocumentMenuViewController', 'MCSession', 'QLPreviewController', 'CAMediaTimingFunction', 'UITextPosition', 'ASIdentifierManager', 'AVAssetResourceLoadingRequest', 'SLComposeServiceViewController', 'UIPinchGestureRecognizer', 'PHObject', 'NSExtensionItem', 'HKSAMPLEQuery', 'MTLRenderPipelineColorAttachmentDescriptorArray', 'MKRouteStep', 'SCN Capsule', 'NSMetadataQuery', 'AVAssetResourceLoadingContentInformationRequest', 'UITraitCollection', 'CTCarrier', 'NSFileSecurity', 'UIAcceleration', 'UIMotionEffect', 'MTLRenderPipelineReflection', 'CLHeading', 'CLVisit', 'MKDirectionsResponse', 'HMAccessory', 'MTLStructType', 'UITextView', 'CMMagnetometerData', 'UICollisionBehavior', 'UIProgressView', 'CKServerChangeToken', 'UISearchBar', 'MKPlacemark', 'AVCaptureConnection', 'NSPropertyMapping', 'ALAssetsFilter', 'SK3DNode', 'AVPlayerItemErrorLogEvent', 'NSJSONSerialization', 'AVAssetReaderVideoCompositionOutput', 'ABPersonViewController', 'CIDetector', 'GKTurnBasedMatchmakerViewController', 'MPMediaItemCollection', 'SCNSphere', 'NSCondition', 'NSURLCredential', 'MIDINetworkConnection', 'NSFileProviderExtension', 'NSDecimalNumberHandler', 'NSAtomicStoreCacheNode', 'NSAtomicStore', 'EKAlarm', 'CKNotificationInfo', 'AVAudioUnitEQ', 'UIPercentDrivenInteractiveTransition', 'MKPolygon', 'AVAssetTrackSegment', 'MTLVertexAttribute', 'NSExpressionDescription', 'HKStatisticsCollectionQuery', 'NSURLAuthenticationChallenge', 'NSDirectoryEnumerator', 'MKDistanceFormatter', 'UIAlertAction', 'NSPropertyListSerialization', 'GKPeerPickerController', 'UIUserNotificationSettings', 'UITableViewController', 'GKNotificationBanner', 'MKPointAnnotation', 'MTLRenderPassColorAttachmentDescriptorArray', 'NSCache', 'SKPhysicsJoint', 'NSXMLParser', 'UIViewController', 'PKPaymentToken', 'MFMessageComposeViewController', 'AVAudioInputNode', 'NSDataDetector', 'CABTMIDICentralViewController', 'AVAudioUnitMIDIInstrument', 'AVCaptureVideoPreviewLayer', 'AVAssetWriterInputPassDescription', 'MPChangePlaybackRateCommand', 'NSURLComponents', 'CAMetalLayer', 'UISnapBehavior', 'AVMetadataMachineReadableCodeObject', 'CKDiscoverUserInfosOperation', 'NSTextAttachment', 'NSEException', 'UIMenuItem', 'CMMotionActivityManager', 'SCNGeometryElement', 'NCWidgetController', 'CAEmitterLayer', 'MKUserLocation', 'UIImagePickerController', 'CIFeature', 'AVCaptureDeviceInput', 'ALAsset', 'NSURLSessionDownloadTask', 'SCNPhysicsHingeJoint', 'MPMoviePlayerViewController', 'NSMutableOrderedSet', 'SCNMaterialProperty', 'UIFont', 'AVCaptureVideoDataOutput', 'NSCachedURLResponse', 'ALAssetsLibrary', 'NSInvocation', 'UILongPressGestureRecognizer', 'NSTextStorage', 'WKWebViewConfiguration', 'CIFaceFeature', 'MKMapSnapshot', 'GLKEffectPropertyFog', 'AVComposition', 'CKDiscoverAllContactsOperation', 'AVAudioMixInputParameters', 'CAEmitterBehavior', 'PKPassLibrary', 'UIMutableUserNotificationCategory', 'NSLock', 'NEVPNProtocolIPSec', 'ADBannerView', 'UIDocumentPickerExtensionViewController', 'UIActivityIndicatorView', 'AVPlayerMediaSelectionCriteria', 'CALayer', 'UIAccessibilityCustomAction', 'UIBarButtonItem', 'AVAudioSessionRouteDescription', 'CLBeaconRegion', 'HKBloodTypeObject', 'MTLVertexBufferLayoutDescriptorArray', 'CABasicAnimation', 'AVVideoCompositionInstruction', 'AVMutableTimedMetadataGroup', 'EKRecurrenceEnd', 'NSTextContainer', 'TWTweetComposeViewController', 'PKPaymentAuthorizationViewController', 'UIScrollView', 'WKNavigationAction', 'AVPlayerItemMetadataOutput', 'EKRecurrenceDayOfWeek', 'NSNumberFormatter', 'MTLComputePipelineReflection', 'UIScreen', 'CLRegion', 'NSProcessInfo', 'GLKTextureInfo', 'SCNSkinner',

'AVCaptureMetadataOutput', 'SCNAnimationEvent', 'NSTextTab', 'JSManagedValue', 'NSDate', 'UITextChecker',  
'WKBackForwardListItem', 'NSData', 'NSParagraphStyle', 'AVMutableMetadataItem', 'EKCalendar',  
'HKWorkoutEvent', 'NSMutableURLRequest', 'UIVideoEditorController', 'HMTimerTrigger',  
'AVAudioUnitVarispeed', 'UIDynamicAnimator', 'AVCompositionTrackSegment', 'GCCGamepadSnapshot',  
'MPMediaEntity', 'GLKSkyboxEffect',  
'UISwitch', 'EKStructuredLocation', 'UIGestureRecognizer', 'NSProxy', 'GLKBaseEffect', 'UIPushBehavior',  
'GKScoreChallenge', 'NSCoder', 'MPMediaPlaylist', 'NSDateComponents', 'WKUserScript', 'EKEvent',  
'NSDateFormatter', 'NSAsynchronousFetchResult', 'AVAssetWriterInputPixelBufferAdaptor', 'UIVisualEffect',  
'UICollectionViewCell', 'UITextField', 'CLPlacemark', 'MPPlayableContentManager', 'AVCaptureOutput',  
'HMCharacteristicWriteAction', 'CKModifySubscriptionsOperation', 'NSPropertyDescription', 'GCCGamepad',  
'UIMarkupTextPrintFormatter', 'SCNTube', 'NSPersistentStoreCoordinator', 'AVAudioEnvironmentNode',  
'GKMatchmaker', 'CIContext', 'NSThread', 'SLComposeSheetConfigurationItem', 'SKPhysicsJointSliding',  
'NSPredicate', 'GKVoiceChat', 'SKCropNode', 'AVCaptureAudioPreviewOutput', 'NSStringDrawingContext',  
'GKGameCenterViewController', 'UIPrintPaper', 'SCNPhysicsBallSocketJoint',  
'UICollectionViewLayoutInvalidationContext', 'GLKEffectPropertyTransform', 'AVAudioIONode', 'UIDatePicker',  
'MKDirections',  
'ALAssetsGroup', 'CKRecordZoneNotification', 'SCNScene', 'MPMovieAccessLogEvent',  
'CKFetchSubscriptionsOperation', 'CAEmitterCell', 'AVAudioUnitTimeEffect', 'HMCharacteristicMetadata',  
'MKPinAnnotationView', 'UIPickerView', 'UIImageView', 'UIUserNotificationCategory',  
'SCNPhysicsVehicleWheel', 'HKCategoryType', 'MPMediaQuerySection',  
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'MPMediaPropertyPredicate', 'CMLogItem', 'NSAutoreleasePool', 'NSSocketPort', 'AVAssetReaderTrackOutput',  
'SKNode', 'UIMutableUserNotificationAction', 'SCNProgram', 'AVSpeechSynthesisVoice', 'CMAltimeter',  
'AVCaptureAudioChannel', 'GKTurnBasedExchangeReply', 'AVVideoCompositionLayerInstruction',  
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'CKReference', 'LAContext', 'CKRecordID', 'ADInterstitialAd',  
'AVAudioSessionDataSourceDescription', 'AVAudioBuffer', 'CIColorKernel', 'GCCControllerDirectionPad',  
'NSFileManager', 'AVMutableAudioMixInputParameters', 'UIScreenEdgePanGestureRecognizer',  
'CAKeyframeAnimation', 'CKQueryNotification', 'PHAdjustmentData', 'EASession',  
'AVAssetResourceRenewalRequest', 'UIInputView', 'NSFileWrapper', 'UIResponder', 'NSPointerFunctions',  
'UIKeyCommand', 'NSHTTPCookieStorage', 'AVMediaSelectionOption', 'NSRunLoop', 'NSFileAccessIntent',  
'CAAnimationGroup', 'MKCircle', 'UIAlertController', 'NSMigrationManager', 'NSDateIntervalFormatter',  
'UICollectionViewUpdateItem', 'CKDatabaseOperation', 'PHImageRequestOptions', 'SKReachConstraints',  
'CKRecord', 'CAInterAppAudioSwitcherView', 'WKWindowFeatures', 'GKInvite', 'NSMutableData',  
'PHAssetCollectionChangeRequest', 'NSMutableParagraphStyle', 'UIDynamicBehavior', 'GLKEffectProperty',  
'CKFetchRecordChangesOperation', 'SKShapeNode', 'MPMovieErrorLogEvent', 'MKPolygonView',  
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'GKAchievementChallenge', 'AVAudioPlayer', 'CKContainer', 'AVVideoComposition', 'NKLlibrary',  
'NSPersistentStore', 'AVCaptureMovieFileOutput', 'HMRoom', 'GKChallenge', 'UITextRange',  
'NSURLProtectionSpace', 'ACAAccountStore', 'MPSkipIntervalCommand', 'NSComparisonPredicate', 'HMHome',  
'PHVideoRequestOptions', 'NSOutputStream', 'MPSkipIntervalCommandEvent', 'PKAddPassesViewController',  
'UITextSelectionRect', 'CTTelephonyNetworkInfo', 'AVTextStyleRule', 'NSFetchedPropertyDescription',  
'UIPageViewController', 'CATransformLayer', 'UICollectionViewController', 'AVAudioNode',  
'MCNearbyServiceAdvertiser', 'NSObject', 'PHAsset', 'GKLeaderboardViewController', 'CKQueryCursor',  
'MPMusicPlayerController', 'MKOverlayPathRenderer', 'CMPedometerData', 'HMService', 'SKFieldNode',  
'GKAchievement', 'WKUserContentController', 'AVAssetTrack', 'TWRequest', 'SKLabelNode',  
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'MTLTextureDescriptor', 'MTLVertexBufferLayoutDescriptor',  
'MPFeedbackCommandEvent', 'UIUserNotificationAction', 'HKStatisticsQuery', 'SCNParticleSystem',  
'NSIndexPath', 'AVVideoCompositionRenderContext', 'CADisplayLink', 'HKObserverQuery',  
'UIPopoverPresentationController', 'CKQueryOperation', 'CAEAGLLayer', 'NSMutableString', 'NSMessagePort',  
'NSURLQueryItem', 'MTLStructMember', 'AVAudioSessionChannelDescription', 'GLKView',  
'UIActivityViewController', 'GKAchievementViewController', 'GKTurnBasedParticipant', 'NSURLProtocol',  
'NSUserDefaults', 'NSCalendar', 'SKKeyframeSequence', 'AVMetadataItemFilter',  
'CKModifyRecordZonesOperation', 'WKPreferences', 'NSMethodSignature', 'NSRegularExpression',  
'EAGLSharegroup', 'AVPlayerItemVideoOutput', 'PHContentEditingInputRequestOptions', 'GKMatch', 'CIColor',  
'UIDictationPhrase']])

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'LightSlateGray',

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\* /pygments-2-2-0-sources-jar/pygments/lexers/\_asy\_builtins.py

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'external\_objectslib',

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\_\_all\_\_ = ['RtsLexer']

class RtsLexer(RegexLexer):

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r'SupportsListenerType|TextHeight|TextWidth|ToCursor|'

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'swf\_fontslant',

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'\_\_getattr\_\_', '\_\_getattribute\_\_', '\_\_getitem\_\_', '\_\_getslice\_\_', '\_\_gt\_\_',  
'\_\_setslice\_\_', '\_\_str\_\_', '\_\_sub\_\_', '\_\_subclasscheck\_\_', '\_\_truediv\_\_',

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'lightslategray', 'lightslategray', 'lightsteelblue', 'lightyellow',

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Metadata-Version: 2.0

Name: Pygments

Version: 2.2.0

Summary: Pygments is a syntax highlighting package written in Python.

Home-page: <http://pygments.org/>

Author: Georg Brandl

Author-email: [georg@python.org](mailto:georg@python.org)

License: BSD License

Keywords: syntax highlighting

Platform: any

Classifier: License :: OSI Approved :: BSD License

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: End Users/Desktop

Classifier: Intended Audience :: System Administrators

Classifier: Development Status :: 6 - Mature

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Operating System :: OS Independent

Classifier: Topic :: Text Processing :: Filters

Classifier: Topic :: Utilities

Pygments

~~~~~

Pygments is a syntax highlighting package written in Python.

It is a generic syntax highlighter suitable for use in code hosting,

forums,  
wikis or other applications that need to prettify source code. Highlights  
are:

- \* a wide range of over 300 languages and other text formats is supported
- \* special attention is paid to details, increasing quality by a fair amount
- \* support for new languages and formats are added easily
- \* a number of output formats, presently HTML, LaTeX, RTF, SVG, all image formats that PIL supports and ANSI sequences
- \* it is usable as a command-line tool and as a library

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"tsappend", "tset", "tsfill", "tsline", "tsline\_ex",

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Pygments  
~~~~~

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- \* it is usable as a command-line tool and as a library

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('tsl','tsl'),

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```
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```

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'\$dumpportsall', '\$dumpportsflush', '\$dumpportslimit', '\$dumpportsoff',

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'sqlite\_setsleepmillis',

'sqlite\_setsleeptries',

'sqlite\_setsleepmillis',

'sqlite\_setsleeptries',

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Transact-SQL (T-SQL) is Microsoft's and Sybase's proprietary extension to

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\* /pygments-2-2-0-sources-jar/pygments/lexers/prolog.py

\* /pygments-2-2-0-sources-jar/pygments/lexers/shell.py

\* /pygments-2-2-0-sources-jar/pygments/lexers/factor.py

- \* /pygments-2-2-0-sources-jar/pygments/styles/bw.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/praat.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/felix.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/autumn.py
- \* /pygments-2-2-0-sources-jar/pygments/scanner.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/data.py
- \* /pygments-2-2-0-sources-jar/pygments/filters/\_\_\_init\_\_\_py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/textedit.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/whiley.py
- \* /pygments-2-2-0-sources-jar/pygments/\_\_\_init\_\_\_py
- \* /pygments-2-2-0-sources-jar/pygments/formatters/terminal256.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/algol\_nu.py
- \*
- /pygments-2-2-0-sources-jar/pygments/lexers/capnproto.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/\_tsql\_builtins.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/configs.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/nit.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/ml.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/php.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/urbi.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/erlang.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/int\_fiction.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/roboconf.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/smalltalk.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/borland.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/native.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/\_csound\_builtins.py
- \* /pygments-2-2-0-sources-jar/pygments/formatters/terminal.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/rebol.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/d.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/pawn.py
- \*
- /pygments-2-2-0-sources-jar/pygments/lexers/web.py
- \* /pygments-2-2-0-sources-jar/pygments/formatter.py
- \* /pygments-2-2-0-sources-jar/pygments/formatters/html.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/c\_like.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/objective.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/\_stan\_builtins.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/murphy.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/nimrod.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/automation.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/supercollider.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/arduino.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/sas.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/bibtex.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/oberon.py
- \* /pygments-2-2-0-sources-jar/pygments/unistring.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/perl.py



- \* /pygments-2-2-0-sources-jar/pygments/lexers/nix.py
- \*
- /pygments-2-2-0-sources-jar/pygments/lexers/ruby.py
- \* /pygments-2-2-0-sources-jar/pygments/formatters/latex.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/scripting.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/text.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/fantom.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/modula2.py
- \* /pygments-2-2-0-sources-jar/pygments/styles/vs.py
- \* /pygments-2-2-0-sources-jar/pygments/lexers/math.py
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'Layout', 'LayoutPageAction', 'LayoutSlideShow', 'Legend',  
'StatsKSTest', 'StatsKWTest', 'StatsLinearCorrelationTest',  
'StatsLinearRegression', 'StatsMultiCorrelationTest', 'StatsNPMCTest',  
'StatsKuiperCDF', 'StatsLogisticCDF', 'StatsLogisticPDF', 'StatsLogNormalCDF',  
'StatsLogNormalPDF', 'StatsMaxwellCDF', 'StatsMaxwellPDF', 'StatsMedian',

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'RtsLexer': (pygments.lexers.trafficscript, 'TrafficScript', ('rts', 'trafficscript'), (\*.rts'), ()),

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'nngetaspects', 'nngetp', 'nngetsloped', 'nngetslopes', 'nngetwts',

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# 1.487 source-map 0.6.1

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## 1.488 pyrsistent 0.15.6

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## 1.489 ajv-keywords 3.4.0

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# 1.490 lua-cjson 2.1.0

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# 1.491 pyasn1-modules 0.2.2

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# 1.492 docopt 0.6.2-3.ph4

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## 1.493 packaging 16.8-4.ph2

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## 1.494 python-dateutil 2.8.1-2.ph4

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# 1.495 incremental 17.5.0-2.ph4

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-----  
dateutil - Extensions to the standard Python datetime module.

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