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1.2 lua 5.1.5

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1.3 concat-map 0.0.1

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1.7 has-ansi 2.0.0

1.7.1 Available under license :

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

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

```
## Install
```

```
...
```

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

```
...
```

```
## Usage
```

```
```js
```

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

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```
...
```

```
Related
```

```
- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
```

```
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
```

```
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
```

```
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right
```

```
License
```

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

## 1.8 supports-color 2.0.0

### 1.8.1 Available under license :

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

```
> Detect whether a terminal supports color
```

```
Install
```

```
...
```

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

```
...
```

```
Usage
```

```
```js
```

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

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

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

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

Related

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

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1.10 buffer-xor 1.0.3

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1.11 backbone 1.2.3

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1.12 syslinux 6.03

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*

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

*

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*

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3.5.0.1

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1.19 inflight 1.0.6

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1.42 array-unique 0.2.1

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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1.51 source-map-support 0.4.18

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1.55 repeat-element 1.1.2

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1.56 regex-cache 0.4.4

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1.57 core-util-is 1.0.2

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1.58 readdirp 2.1.0

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1.59 randomatic 1.1.7

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1.60 punycode 1.4.1

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1.62 debug 2.6.9

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1.64 path-is-absolute 1.0.1

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1.67 extglob 0.3.2

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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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1.72 micromatch 2.3.11

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1.80 graceful-fs 4.1.11

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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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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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- * @author: Jack Doyle, jack@greensock.com
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Found in path(s):

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

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

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

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Found in path(s):

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

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*/

Found in path(s):

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

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```
/*!  
* VERSION: 1.2.0  
* DATE: 2017-01-17  
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*  
* This file is to be used as a simple template for writing your own plugin. See the  
* TweenPlugin docs for more details.  
*  
* You can start by doing a search for "yourCustomProperty" and replace it with whatever the name  
* of your property is. This way of defining a plugin was introduced in version 1.9.0 - previous versions  
* of TweenLite won't work with this.  
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```

Found in path(s):

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

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/*!  
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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
 * DATE: 2017-10-02
 * UPDATES AND DOCS AT: http://greensock.com
 *
 * Requires TweenLite and CSSPlugin version 1.17.0 or later (TweenMax contains both TweenLite and CSSPlugin).
 ThrowPropsPlugin is required for momentum-based continuation of movement after the mouse/touch is released
 (ThrowPropsPlugin is a membership benefit of Club GreenSock - http://greensock.com/club/).
 *
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 *
 * @author: Jack Doyle, jack@greensock.com
 */
```

Found in path(s):

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

```
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```

Found in path(s):

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

*
/gsap-1-20-3-tgz/package/src/minified/plugins/CSSPlugin.min.js
* /gsap-1-20-3-tgz/package/src/uncompressed/TweenLite.js
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```
/*!  
* VERSION: 0.1.12  
* DATE: 2017-01-17  
* UPDATES AND DOCS AT: http://greensock.com/jquery-gsap-plugin/  
*  
* Requires TweenLite version 1.8.0 or higher and CSSPlugin.  
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*  
* @author: Jack Doyle, jack@greensock.com  
*/
```

Found in path(s):

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

1.187 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

1

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1.188 netlink

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1.190 gojsonschema

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1.191 safe-buffer 5.1.2

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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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1.232 jquery-ui 1.12.1

1.233 webpack-jquery-ui 2.0.1

1.234 bzip2 1.0.8

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1.236 open-ldap 2.4.48

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1.238 json-c 0.99.8

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1.239 gmp 6.1.2

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Version 3, 29 June 2007

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1.240 net-tools 2.10

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1.241 ncurses 6.1

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

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

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

Files: *

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-- vile:txtmode fc=72
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1.242 libvmtools 10.3.5.7752

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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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1.245 pyparsing 2.4.2

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1.249 xz 5.2.4

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1.250 libpcap 1.9.1

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1.251 libxml2 2.9.10

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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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1.265 libyami 0.2.2

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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.

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

Author: Julio Merino <jmmv84@gmail.com>

* `admin/check-style.sh`,
`admin/check-style-common.awk`,
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project.

They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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-->
```

```
<!-- $Id$ -->
```

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

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

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
```

```
<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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```

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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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1.271 bn.js 4.11.8

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1.274 asn1.js 4.10.1

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1.276 des.js 1.0.0

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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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1.280 backbone.marionette 3.4.4

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1.284 soundex 0.2.1

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1.285 start-stop-daemon 1.18.10

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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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1.292 python 3.8.2

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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

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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

```

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

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#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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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

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

```

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

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Adler, Mark
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
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Bussjaeger, Andreas
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Chazelas, Stephane
Cheloha, Scott
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Corzine, Deven T.
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Fobes, Steve
Frysinger, Mike
G., Daniel Richard
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Gerraty, Simon J.
Graber, Stephane
Guillory, B.
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Hoover, Adam
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Jorge, Joel Pele
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Kikuchi, Ayamura
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Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
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Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
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Lobbes, Phillip E.
McIntyre, Jason
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McLaughlin, Tom
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Marchionna, Michael D.
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Martinian, Emin
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Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
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Peterson, Toby
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Walsh, Dan
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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.

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Cho, Seong-ho
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1.299 jquery 3.5.1

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1.300 redis 5.0.7

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1.301 pycparser 2.19

1.301.1 Available under license :

pycparser -- A C parser in Python

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1.302 pyasn1 0.1.9

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1.311 asgiref 3.2.3

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1.312 billiard 3.6.1.0

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1.313 cached-property 1.5.1

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1.314 channels 2.3.1

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1.315 channels-redis 2.4.2

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1.317 django-redis 4.11.0

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1.319 hiredis 0.2.0

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

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

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

object code for the work under the terms of Section 6.

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

will 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.

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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.

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* 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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1.327 python-blessed 1.17.5

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1.328 python-cached-property 1.4.3

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1.331 zope-interface 4.6.0

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1.332 docker-containerd 1.2.12

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

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Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

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

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1.334 docker-engine 19.03.5

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1.335 libatomic-ops 7.6.10

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1.367 file-loader 1.1.11

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1.368 Iodash 4.17.4

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1.369 gojsonpointer

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1.370 postcss-value-parser 3.3.0

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1.371 jsonschema 3.0.1

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1.372 icss-utils 2.1.0

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1.373 fastparse 1.1.1

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1.375 style-loader 0.21.0

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1.376 css-loader 1.0.1

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1.377 css-selector-tokenizer 0.7.0

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1.378 coreutils 8.31

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1.379 expat 2.2.9

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1.380 util-linux 2.35.1

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```
WEV @@ WEV[B "1
```

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1.381 mpdecimal 2.4.2

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1.382 libsodium 1.0.18

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1.383 rsyslog 8.2006.0

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``Source code" for a work means the preferred form of the work for

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

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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 License.

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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.

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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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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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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end
smallexample
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```
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

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

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.

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

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- 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.

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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 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.

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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.

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

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:

a) 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.)

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

c) 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.

d) 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.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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.

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

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STACK-LESS JUST-IN-TIME COMPILER

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1.388 pyasn1 0.4.7

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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/test_decoder.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/compat/__main__.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_char.py
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* /etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/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

[![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/)
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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)
0000: 30 07 02 01 7B 80 02 01 41
...

```

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

```

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

```

```

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

```

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

```

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

```

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

```

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

```

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

More information on pyasn1 APIs can be found in the

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

How to get pyasn1

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

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

If

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

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ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>_) is a

technology for exchanging structured data in a universally understood,

hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

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

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

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

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

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

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

ASN.1 applications

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

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

ASN.1 gotchas

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::
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 /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.

```
..
```

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toctree::
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```

[/changelog](#)

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

1.389 simplegeneric 0.8.1

1.389.1 Available under license :

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

Development Status :: 6 - Mature

Development Status :: 7 - Inactive

Intended Audience :: Developers

License :: OSI Approved :: Zope Public License

Programming Language :: Python

Programming Language :: Python :: 2

Programming Language :: Python :: 2.4

Programming Language :: Python :: 2.5

Programming Language :: Python :: 2.6

Programming Language :: Python :: 2.7

Programming Language :: Python :: 3

Operating System :: OS Independent

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

Found in path(s):

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

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

Metadata-Version: 1.0

Name: simplegeneric

Version: 0.8.1

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

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

Author: Phillip J. Eby

Author-email: peak@eby-sarna.com

License: ZPL 2.1

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

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

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

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

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

e.g. ``pickle.dump()`` and other

generic functions found in the Python standard library.

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

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

Usage

Defining and using a generic function is straightforward::

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

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

>>> @move.when_type(str)
... def move_str(item, target):
...     print("How are you %s!!" % item)
```

```

... print("All your %s are belong to us." % (target,))

>>> zig = object()
>>> @move.when_object(zig)
... def move_zig(item, target):
...     print("You know what you %s." % (target,))
...     print("For great justice!")

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

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

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

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

Inheritance and Allowed Types

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

```

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

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

And the ``when_type()`` decorator only accepts classes or types::

```

>>> @move.when_type(23)
... def move_23(item, target):
...     print("You have no chance to survive!")
```

Traceback (most recent call last):

...

TypeError: 23 is not a type or class

Methods defined for supertypes are inherited following MRO order::

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

```
>>> move(MyString("ladies"), "drinks")
```

How are you ladies!!

All your drinks are belong to us.

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

```
>>> class X: pass
```

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

```
>>> @move.when_type(X)
```

```
... def move_x(item, target):
```

```
...     print("Someone set us up the %s!!!" % (target,))
```

```
>>> move(X(), "bomb")
```

Someone set us up the bomb!!!

```
>>> move(Y(), "dance")
```

Someone set us up the dance!!!

Multiple Types or Objects

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

```
>>> @generic
```

```
... def isbuiltin(ob):
```

```
...     return False
```

```
>>> @isbuiltin.when_type(int, str, float, complex, type)
```

```
... @isbuiltin.when_object(None, Ellipsis)
```

```
... def yes(ob):
```

```
...     return True
```

```
>>> isbuiltin(1)
```

True

```
>>> isbuiltin(object)
```

True

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

Defaults and Docs

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

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

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

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

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

Inspection and Extension

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

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

False

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

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

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

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

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

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

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

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

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

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

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

Limitations

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

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

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

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

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

Platform: UNKNOWN

Classifier:

Development Status :: 6 - Mature

Classifier: Development Status :: 7 - Inactive

Classifier: Intended Audience :: Developers

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

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Operating System :: OS Independent

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

Found in path(s):

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

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

1.390 pem 21.1.0

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1.391 python-requests 2.22.0

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1.392 urllib3 1.25.6

1.392.1 Notifications :

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This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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Contributions to the urllib3 project

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Contributors

In chronological order:

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

* HTTPS patch (which inspired HTTPSConnectionPool)

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

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Aviv Palivoda <palaviv@gmail.com>

- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Will Bond <will@wbond.net>

- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site
- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.393 python-pip 19.3.1

1.393.1 Available under license :

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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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- Wichert Akkerman, 2012/02/02

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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History

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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

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

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

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

It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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

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1.394 attrs 19.3.0

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1.395 python-requests 2.21.0

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1.396 pyopenssl 19.1.0

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1.397 xlwt 1.3.0

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1.398 urllib3 1.24.2

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Contributions to the urllib3 project

Creator & Maintainer

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

Contributors

In chronological order:

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

* HTTPS patch (which inspired HTTPSConnectionPool)

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

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Cory Benfield

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Arthur Grunseid <<https://grunseid.com>>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.399 cyrus-sasl 2.1.27

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- ```

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* Tim Martin
* Rob Earhart
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*/
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## 1.401 rfc3987 1.3.7

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```

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```
<program> Copyright (C) <year> <name of author>
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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## 1.402 loader-utils 1.2.3

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## 1.403 celery 4.3.0

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

Everyone who have ever contributed to Celery should be in this list, but in a recent policy change it has been decided that everyone must add themselves here, and not be added by others, so it's currently incomplete waiting for everyone to add their names.

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

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## A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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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.

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## 1.405 django 2.1.4

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=====  
Advice for new contributors  
=====

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

.. admonition:: Basic tools and workflow

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

First steps  
=====

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

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

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

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

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

**\*\*Look for tickets that are accepted and review patches to build familiarity**

with the codebase and the process\*\*

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

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

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

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

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

.. note::

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

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

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

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

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

## Guidelines

=====

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

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

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

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

Trac isn't an absolute; the context is just as important as the words.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

.. \_new-contributors-faq:

## FAQ

====

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

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

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

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

## A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

Footnotes:

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

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

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

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## 1.406 python3-asn1crypto 1.2.0

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package licensing

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

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

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

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

 return license, nil
}

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

 authorization, err := c.getAuthorization(ctx,
```

```

license)
if err != nil {
 return nil, err
}

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

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

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

key := keys[0]

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

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

checkRes := new(model.CheckResponse)

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

```

```

 }, "license payload unmarshal failed")
}

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

return checkRes, nil
}

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

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

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

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

```

```

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

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

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

return nil
}

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

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

```

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

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed
```

```
// json blob.
```

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

```
// IssuedLicense represents an issued license
```

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

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

```
func (l *IssuedLicense) Valid() (bool, string) {
 if l.KeyID == "" {
 return false, "empty key_id"
 }
}
```

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

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

```
 return true, ""
}
```

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package engine

```
import (
 "time"
```

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

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

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

```
)
```

```
const (
```

```
 defaultSubscriptionsTableFormat = "table"
```

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

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

```
 numHeader = "NUM"
```

```
 ownerHeader = "OWNER"
```

```
 licenseNameHeader = "NAME"
```

```
 idHeader = "ID"
```

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

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

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

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

```
 startHeader = "START"
```

```
 expiresHeader = "EXPIRES"
```

```
 stateHeader = "STATE"
```

```
 eusaHeader = "EUSA"
```

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

```
)
```

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

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

```
{
```

```
 switch source {
```

```
 case formatter.TableFormatKey:
```

```
 if quiet {
```

```
 return defaultSubscriptionsQuietFormat
```

```
 }
```

```
 return defaultSubscriptionsTableFormat
```

```
 case formatter.RawFormatKey:
```

```
 if quiet {
```

```
 return `license: {{{.ID}}}`
```

```
 }
```

```
 return `license: {{{.ID}}}\nname: {{{.Name}}}\nowner: {{{.Owner}}}\ncomponents: {{{.ComponentsString}}}\n`
```

```
 }
```

```
 return formatter.Format(source)
```

```
}
```

```

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

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

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

func (c *licenseContext) Eusa() *model.EusaState {

```

```

return c.l.Eusa
}

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

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

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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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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))
 }
}

```

## 1.420 bridgeutils 1.6.0

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## 1.421 glib 2.62.4

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## 1.422 libatomic 7.6.10

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## 1.424 browserify-des 1.0.2

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>>> freetsd-base64-4.8

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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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## 1.427 parse-asn1 5.1.1

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## 1.428 python-certifi 2019.11.28

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

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

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
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@(#) \$RCSfile: certdata.txt,v \$

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

## 1.429 supports-color 5.3.0

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## 1.430 remove-trailing-separator 1.1

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## 1.431 procps 3.3.15

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.443 Ixml 4.6.5

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\*

\*/

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-----

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\*

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```
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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c'
for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.447 sqlite 3.30.1

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## 1.448 sapy 1.4.7

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

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

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

Found in path(s):

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

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

Smart Licensing Status

=====

{{get\_license\_status}}

Evaluation Period:

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

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

License Usage

=====

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

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

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

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

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

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

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

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

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

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

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

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

{{/get\_license\_usage}}

Product Information

=====

{{get\_license\_udi}}

Agent Version

=====

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

Upcoming Scheduled Jobs

=====

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

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

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

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

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

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

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

## License Certificates

=====

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

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

PIID: {{get\_piid}}

Licensing Certificates:

ID Cert Info:

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

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

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

Serial Number:

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

Common Name:

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

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

Attributes:

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

Serial Number:

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

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

Signing Cert Info:

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

Expiry

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

Version:

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

Serial Number:

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

Common Name:

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

Issuer Name:

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

Attributes:

CN:

{{#get\_signing\_cert\_attributes\_cn}}{{get\_signing\_cert\_attributes\_cn}}{/get\_signing\_cert\_attributes\_cn}}

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

Intermediate Cert info:

Start Date:

{{#get\_intermediate\_cert\_start\_date}}{{get\_intermediate\_cert\_start\_date}}{/get\_intermediate\_cert\_start\_date}}

Expiry Date:

{{#get\_intermediate\_cert\_expiry\_date}}{{get\_intermediate\_cert\_expiry\_date}}{/get\_intermediate\_cert\_expiry\_date}}

```

te}}
 Version:
 {{#get_intermediate_cert_version_number}}{{get_intermediate_cert_version_number}}{/get_intermediate_cert_v
ersion_number}}
 Serial Number:
 {{#get_intermediate_cert_serial_number}}{{get_intermediate_cert_serial_number}}{/get_intermediate_cert_seria
l_number}}
 Common Name:
 {{#get_intermediate_cert_common_name}}{{get_intermediate_cert_common_name}}{/get_intermediate_cert_co
mmon_name}}
 Issuer Name:
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_o}}
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Other info
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Software ID: {{get_software_tag}}
Tenant State: {{get_tenant_state}}
Transport: {{get_transport}}
Locale: {{get_locale}}
Tenants available: {{get_list_of_tenants_created}}
Reservation enable: {{get_reservation_enable}}
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Reservation status: {{get_reservation_status}}
Reservation Request code: {{get_reservation_request_code}}
Reservation authorization code: {{get_reservation_auth_code}}
Reservation return code: {{get_reservation_return_code}}
Reservation confirmation code: {{get_reservation_confirmation_code}}
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Found in path(s):
* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/clitools/cliexecuter/show_tech_support.mustache
* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-
v1.4.7/sapy/builtins/show_api/templates/show_tech_support.mustache
No license file was found, but licenses were detected in source scan.

{
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```

```

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 "\n",
 "The parameters below should be configured before running the notebook."
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 "C_LIBRARY_PATH = \"/path/to/libSmartSecurity.so\""
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 "# Run It"
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 "import time\n",
 "\n",
 "import sapy\n",
 "from sapy.plugins.datastore import SQLiteDatastore"
]
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 "def getsize():\n",
 " return os.path.getsize(SQLITE_PATH)"
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```

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"if os.path.exists(SQLITE_PATH):\n",
" os.remove(SQLITE_PATH)\n",
"\n",
"sapy.mock.settings[\"builtin_security_module.c_library_path\"] = C_LIBRARY_PATH\n",
"sapy.mock.settings[\"datastore.filepath\"] = SQLITE_PATH\n",
"sapy.mock.settings[\"datastore.delete_on_finalize\"] = True\n",
"sapy.mock.plugins[\"datastore\"] = SQLiteDatastore\n",
"\n",
"sapy.init_smart_agent(sapy.mock.settings, sapy.mock.plugins)\n",
"\n",
"agent = sapy.smart_agent()"
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"from ipywidgets import FloatProgress\n",
"from IPython.display import display\n",
"\n",
"number = 100\n",
"progress_bar = FloatProgress(min=0, max=number)\n",
"display(progress_bar)\n",
"\n",
"print(\"Initial size: %r Byte\" % getsize())\n",
"\n",
"data_KB = []\n",
"for i in range(number):\n",
" tcid, tenant = agent.create_tenant()\n",
" task = tenant.register(sapy.mock.token, force=True)\n",
" \n",
" time.sleep(.1)\n",
" size_Byte = getsize()\n",
" data_KB.append(size_Byte/1000.0)\n",
" progress_bar.value += 1\n",
"\n",
"print(\"Done \")"
]
},

```

```

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 "*Note* matplotlib is required to plot the graph. You are free to use any other plotting libraries though. For most
of the system, within the current virtual environment issuing following command should suffice to install
matplotlib.\n",
 "\n",
 "```\n",
 "$ pip install matplotlib\n",
 "```\n",
 "\n",
 "* More details at official [matplotlib](https://matplotlib.org/users/installing.html) installation page."
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Found in path(s):

\* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/materials/tenant-creation.ipynb

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

```
"_SLERUM::slerum_auth_request - send auth request for the license: %s"
```

Found in path(s):

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*/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/test_automation/sanity/sa_ultra.py
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import display\n",
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"number = 100\n",
"progress_bar = FloatProgress(min=0, max=number)\n",
"display(progress_bar)\n",
"\n",
"tcid, tenant = agent.create_tenant()\n",
"task = tenant.register(sapy.mock.token, force=True)\n",
"\n",
"data_KB = []\n",
"for i in range(number):\n",
" entitlement = tenant.entitlement(ENTITLEMENT_TAG)\n",
" entitlement.request(1)\n",
" time.sleep(.1)\n",
" size_Byte = getsize()\n",
" data_KB.append(size_Byte/1000.0)\n",
" progress_bar.value += 1\n",
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"print(\"Done \")"
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"*Note:* matplotlib is required to plot the graph. You are free to use any other plotting libraries though. For most
of the system, within the current virtual environment issuing following command should suffice to install
matplotlib.\n",
"```\n",
"$ pip install matplotlib\n",
"```\n",
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"* More details at official [matplotlib](https://matplotlib.org/users/installing.html) installation page.\n"
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* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/materials/entitlement-request.ipynb
```

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

```
// Permission to use, copy, modify, and/or distribute this software for any
// purpose with or without fee is hereby granted, provided that the above
// copyright notice and this permission notice appear in all copies.
```

Found in path(s):

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

## 1.449 zlib 1.2.11

### 1.449.1 Available under license :

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

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

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

\*/

# 1.450 lvm2 2.02.185

## 1.450.1 Available under license :

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Version 2.1, February 1999

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## 1.454 cryptography 3.3.2

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```
{"version":3,"file":"uri.all.js","sources":["../../src/index.ts","../../src/schemes/urn-
uuid.ts","../../src/schemes/urn.ts","../../src/schemes/mailto.ts","../../src/schemes/https.ts","../../src/schemes/http.ts","..
/src/uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/regexp-iri.ts","../../src/regexp-
uri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from
```







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policies, either expressed\n \* or implied, of Gary Court.\n \*/\n\nimport URI\_PROTOCOL from \"/regexp-uri";  
import IRI\_PROTOCOL from \"/regexp-iri";  
import punycode from \"/punycode";  
import { toUpperCase, typeOf, assign } from \"/util";  
export interface URISchemeHandler<Components extends URISchemeHandler<Components>  
URISchemeHandler<Components> {  
scheme:string; parse(components:ParentComponents, options:Options):Components;  
serialize(components:Components, options:Options):ParentComponents;  
unicodeSupport?:boolean; domainHost?:boolean; absolutePath?:boolean;  
nexport interface URIRegExps {  
NOT\_SCHEME : RegExp, NOT\_USERINFO : RegExp, NOT\_HOST : RegExp, NOT\_PATH : RegExp,  
NOT\_PATH\_NOScheme : RegExp, NOT\_QUERY : RegExp, NOT\_FRAGMENT : RegExp, ESCAPE : RegExp,  
UNRESERVED : RegExp, OTHER\_CHARS : RegExp, PCT\_ENCODED : RegExp, IPV4\_ADDRESS :  
RegExp, IPV6\_ADDRESS : RegExp, }  
nexport const SCHEMES: { [scheme:string]: URISchemeHandler } = {};  
nexport function pctEncChar(chr:string):string {  
const c = chr.charCodeAt(0);  
let e:string; if (c < 16) e = \"%0\" + c.toString(16).toUpperCase();  
else if (c < 128) e = \"%\" + c.toString(16).toUpperCase();  
else if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();  
else e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();  
return e;  
}  
nexport function pctDecChars(str:string):string {  
let newStr = \"\"; let i = 0; const il = str.length; while (i < il) {  
const c = parseInt(str.substr(i + 1, 2), 16); if (c < 128) newStr += String.fromCharCode(c);  
else if (c >= 194 && c < 224) {  
const i1 = i + 1; if ((i1 - i) >= 6) {  
const c2 = parseInt(str.substr(i + 4, 2), 16); newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));  
} else {  
newStr += str.substr(i, 6); i += 6; }  
else if (c >= 224) {  
const i1 = i + 1; if ((i1 - i) >= 9) {  
const c2 = parseInt(str.substr(i + 4, 2), 16); const c3 = parseInt(str.substr(i + 7, 2), 16);  
newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));  
} else {  
newStr += str.substr(i, 9); i += 9; }  
} else {  
newStr += str.substr(i, 3); i += 3; }  
}



















"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\$\$", "SPS\$", "DQUOTE\$\$", "CR\$", "obj", "key", "source", "setInterval",  
"call", "prototype", "o", "Object", "shift", "sets", "mappings":", "AUA, SAAA4E, KAAA, GAAA; sCAAyBkP, IAAz  
B; YAAA; ; QACKA, KAAK/R, MAAL, GAAC, CAAlB, EAAqB; aACf, CAAL, IAAU+R, KAAK, CAAL, EAAQrQ, KA  
AR, CAAC, CAAd, EAAiB, CAAC, CAAlB, CAAV; YACMK, KAAKgQ, KAAK/R, MAAL, GAAC, CAAzB; aACK, IAA  
Igb, IAAI, CAAb, EAAgBA, IAAIe, EAApB, EAAwB, EAAEf, CAAlB, EAA6B; iBACvBA, CAAL, IAAU+Q, KAAK/Q  
, CAAL, EAAQU, KAAR, CAAC, CAAd, EAAiB, CAAC, CAAlB, CAAV; ; aAEIK, EAAL, IAAWgQ, KAAKhQ, EAAL, E  
AASL, KAAT, CA Ae, CA Af, CAAX; eACoQq, KAAKhS, IAAL, CAAU, EAAV, 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  
AAiC2S, MAAM, IAAAN, GAAa, MAAb, GAAsBC, OAAOF, SAAP, CAAiBjO, QAAjB, CAA0BgO, IAA1B, CAA+BE,  
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  
qBqS, QAAQ, IAA7B, GAAqCA, eAAenJ, KAAf, GAAuBmJ, GAAvB, GAA8B, OAAOA, IAAItR, MAAX, KAAsB, QA  
AtB, IAAkCsR, IAAInP, KAAtC, IAA+CmP, IAAIG, WAAAnD, IAAkEH, IAAII, IAAtE, GAA6E, CAACJ, GAAD, CAA7  
E, GAAqFnJ, MAAMwJ, SAAN, CAAgBjQ, KAAhB, CAAsBgQ, IAAtB, CAA2BJ, GAA3B, CAAxJ, GAA4L, EAAmM; ;  
AAID, AAAA, SAAA7M, MAAA, CAAuBE, MAAvB, EAAuC6M, MAAvC, EAAA; QACOF, MAAM3M, MAAZ; QA  
CI6M, MAAJ, EAAY; aACN, IAAMD, GAAX, IAAkBC, MAAlB, EAA0B; gBACrBD, GAAJ, IAAWC, OAAOD, GAAP  
, CAAX; ; WAGKD, GAAP; ; ADnCD, SAAA3D, SAAA, CAA0BrK, KAA1B, EAAA; QAEE4K, UAAU, UADX; QAEC  
mD, MAAM, SAFF; QAGCID, UAAU, OAHX; QAICiD, WAAW, SAJZ; QAKC/N, WAAWR, MAAMsL, OAAAN, 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, GAAkKD, OAAO, MAAMC, QAAN, GAAiBA, QAAXB, CAAzK, CARhB; ; mBASgB, yBATHb; QAUC2  
K, eAAe, qCAVhB; QAWCD, aAAaIL, MAAMqO, YAAN, EAAoBID, YAAPB, CAXd; QAYCiD, YAAY3N, QAAQ, 6E  
AAR, GAAwF, IAZrG; ; iBAacA, QAAQ, mBAAR, GAA8B, IAb5C; ; mBACgBT, MAAMqL, OAAAN, EAAeC, OAAf, EA  
AwB, gBAAXB, EAA0C8C, SAA1C, CA DhB; QAeCtC, UAAUvL, OAAO8K, UAAUrL, MAAMqL, OAAAN, EAAeC, O  
AAf, EAAwB, aAAxB, CAAV, GAAMd, GAA1D, CAfX; QAgBCE, YAAYjL, OAAOA, OAAOF, eAAe, GAAf, GAAqB  
L, MAAMC, YAAN, EAAoBkL, YAAPB, EAAC, OAAIC, CAA5B, IAA0E, GAAjF, CAhBb; QAIbCgD, aAAa5N, OA  
AOA, OAAO, SAAP, IAAoB, GAAPB, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K,  
OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, UAAU+K, OAAjB, CA  
ArG, GAAiI, GAAjI, GAAuIA, OAA9I, CAjBd; QAKBC4C, qBAAQb3N, OAAOA, OAAO, SAAP, IAAoB, GAAPB, GA  
A0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OA  
AvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, YAAY+K, OAAAnB, CAARg, GAAMl, OAAAnI, GAA6IA, OAApJ, C  
AlBtB; ; mBAmBgB/K, OAAO2N, qBAAQb, KAARb, GAA6BA, kBAA7B, GAAkD, KAAID, GAA0DA, kBAA1D, GA  
A+E, KAA/E, GAAuFA, kBAA9F, CAnBhB; QAoBCF, OAAOzN, OAAOC, WAAW, OAAIB, CApBR; QAqBCyN, QA  
AQ1N, OAAOA, OAAOyN, OAAO, KAAP, GA AeA, IAAtB, IAA8B, GAA9B, GAAoC/C, YAA3C, CArBT; QAsBCsC,  
gBAAgBhN, OAAmEA, OAAOyN, OAAO, KAAAd, IAAuB, KAAvB, GAA+BC, KAAIG, CA tBjB; ; oBAuBiB1N, OAA  
wD, WAAWA, OAAOyN, OAAO, KAAAd, CAAX, GAAkC, KAAIC, GAA0CC, KAAIG, CA vBjB; ; oBAwBiB1N, OAAO  
A, OAAwCyN, IAAxC, IAAgD, SAAhD, GAA4DzN, OAAOyN, OAAO, KAAAd, CAA5D, GAAMf, KAAAnF, GAA2FC, K  
AAIG, CAxBjB; ; oBAyBiB1N, OAAOA, OAAOA, OAAOyN, OAAO, KAAAd, IAAuB, OAAvB, GAAiCA, IAAxC, IAAg  
D, SAAhD, GAA4DzN, OAAOyN, OAAO, KAAAd, CAA5D, GAAMf, KAAAnF, GAA2FC, KAAIG, CAzBjB; ; oBA0BiB1  
N, OAAOA, OAAOA, OAAOyN, OAAO, KAAAd, IAAuB, OAAvB, GAAiCA, IAAxC, IAAgD, SAAhD, GAA4DzN, OA  
AOyN, OAAO, KAAAd, CAA5D, GAAMf, KAAAnF, GAA2FC, KAAIG, CA1BjB; ; oBA2BiB1N, OAAOA, OAAOA, OAA  
OyN, OAAO, KAAAd, IAAuB, OAAvB, GAAiCA, IAAxC, IAAgD, SAAhD, GAAMEA, IAAAnE, GAA0E, KAA1E, GAA2

FC,KAAIG,CA3BjB;;oBA4BiB1N,OAAOA,OAAOA,OAAOyN,OAAO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,IAAgD,SAAhD,GAA2FC,KAAIG,CA5BjB;;oBA6BiB1N,OAAOA,OAAOA,OAAOyN,OAAO,KAAAd,IAAuB,OA AvB,GAAiCA,IAAxC,IAAgD,SAAhD,GAA2FA,IAAIG,CA7BjB;;oBA8BiBzN,OAAOA,OAAOA,OAAOyN,OA AO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,IAAgD,SAAvD,CA9BjB;;mBA+BgBzN,OAAO,CAACgN,aAAD,E AAgBC,aAAhB,EAA+BC,aAA/B,EAA8CC,aAA9C,EAA6DC,aAA7D,EAA4EC,aAA5E,EAA2FC,aAA3F,EAA0 GC,aAA1G,EAAyHC,aAAzH,EAAwI7Q,IAAxI,CAA6I,GAA7I,CAAP,CA/BhB;QAqCC8N,UAAUzK,OAAOA,O AAON,eAAe,GAAf,GAAqBI,YAA5B,IAA4C,GAAAnD,CAhCX;;iBAiCcE,OAAOwK,eAAe,OAAf,GAAyBC,OA AhC,CAjCd;;yBAkCsBzK,OAAOwK,eAAexK,OAAO,iBAAiBC,QAAjB,GAA4B,MAAnC,CAAf,GAA4DwK,OA AnE,CAIcTB;;iBAmCczK,OAAO,SAASC,QAAT,GAAoB,MAApB,GAA6BR,MAAMC,YAAN,EAAoBkL,YAAp B,EAAkC,OAAIC,CAA7B,GAA0E,GAAjF,CAnCd;QAoCCgC,cAAc5M,OAAO,QAAQA,OAAO8M,qBAAqB,G AArB,GAA2BtC,YAA3B,GAA0C,GAA1C,GAAgDuC,UAAvD,CAAR,GAA6E,KAApF,CAPcf;;gBAqCa/M,OA AOA,OAAOF,eAAe,GAAf,GAAqBL,MAAMC,YAAN,EAAoBkL,YAApB,CAA5B,IAAiE,GAAxE,CARcb;QASc CM,QAAQIL,OAAO4M,cAAc,GAAAd,GAAoBIC,YAApB,GAAmC,KAAAnC,GAA2CmC,SAA3C,GAAuD,GAAv D,GAA6D,GAA7D,GAAmEA,SAA1E,CAtCT;QAuCC1B,QAAQnL,OAAO+K,UAAU,GAAjB,CaVCT;QAwCCu B,aAAatM,OAAOA,OAAOiL,YAAY,GAAnB,IAA0B,GAA1B,GAAgCC,KAAhC,GAAwCIL,OAAO,QAAQmL, KAAf,CAAxC,GAAgE,GAAvE,CAXCd;QAyCCoB,SAASvM,OAAOF,eAAe,GAAf,GAAqBL,MAAMC,YAAN,E AAoBkL,YAApB,EAAkC,UAAIC,CAA5B,CAzCV;QA0CC+B,WAAW3M,OAAOuM,SAAS,GAAhB,CA1CZ;Q A2CCE,cAAczM,OAAOuM,SAAS,GAAhB,CA3Cf;QA4CCG,iBAAiB1M,OAAOA,OAAOF,eAAe,GAAf,GAAq BL,MAAMC,YAAN,EAAoBkL,YAApB,EAAkC,OAAIC,CAA5B,IAA0E,GAAjF,CA5CIB;QA6CCY,gBAAgBxL ,OAAOA,OAAO,QAAQ2M,QAAf,IAA2B,GAAIC,CA7CjB;QA8CCIB,iBAAiBzL,OAAO,QAAQA,OAAOyM,cA AcjB,aAArB,CAAR,GAA8C,GAArD,CA9CIB;;qBA+CkBxL,OAAO0M,iBAAiBIB,aAAxB,CA/CIB;;qBAgDkBx L,OAAOyM,cAAcB,aAArB,CahDIB;;kBAiDe,QAAQe,MAAR,GAAiB,GajDhC;QAkDCC,QAAQxM,OAAOw L,gBAAgB,GAAhB,GAA5BC,cAAtB,GAAuC,GAAvC,GAA6CK,cAA7C,GAA8D,GAA9D,GAAoEJ,cAApE,GA AqF,GAARf,GAA2FC,WAAIG,CAIDT;QAmDCC,SAAS5L,OAAOA,OAAOuM,SAAS,GAAT,GAAe9M,MAAM, UAAN,EAAkBoL,UAAIB,CAAtB,IAAuD,GAA9D,CAnDV;QAoDCQ,YAAYrL,OAAOA,OAAOuM,SAAS,WA AhB,IAA+B,GAATC,CAPDb;QAqDCN,aAAajM,OAAOA,OAAO,WAAW5M,UAAAX,GAAwBd,aAA/B,IAAgD,G AAhD,GAA5DC,cAAtD,GAAuE,GAAvE,GAA6EC,cAA7E,GAA8F,GAA9F,GAAoGC,WAA3G,CARdD;QASDC Q,OAAOnM,OAAOuL,UAAU,KAAV,GAakBU,UAAIB,GAA+BjM,OAAO,QAAQ4L,MAAf,CAA/B,GAAwD,G AAXD,GAA8D5L,OAAO,QAAQqL,SAAf,CAA9D,GAA0F,GAAjG,CAtDR;QAuDCgB,iBAAiBrM,OAAOA,OA AO,WAAW5M,UAAAX,GAAwBd,aAA/B,IAAgD,GAAhD,GAA5DC,cAAtD,GAAuE,GAAvE,GAA6EK,cAA7E,G AA8F,GAA9F,GAAoGH,WAA3G,CaVdIB;QAwDCS,YAAYpM,OAAOqM,iBAAiBrM,OAAO,QAAQ4L,MAAf ,CAAjB,GAA0C,GAA1C,GAAgD5L,OAAO,QAAQqL,SAAf,CAAhD,GAA4E,GAAAnF,CAXDb;QAyDCa,iBAAiB 1M,OAAOmM,OAAO,GAAP,GAAaC,SAApB,CAzDIB;QA0DCJ,gBAAgBhM,OAAOuL,UAAU,KAAV,GAakB U,UAAIB,GAA+BjM,OAAO,QAAQ4L,MAAf,CAA/B,GAAwD,GAA/D,CA1DjB;QA4DCG,eAAe,OAAOR,OAA P,GAAiB,MAAjB,GAA0BvL,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAakB,IAAZB,CAAZ,GAA6C ,IAA7C,GAAoDC,KAApD,GAA4D,GAA5D,GAakeIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAAIE,GAAiG ,IAAxG,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,GAAoKC,cAApK,G AAqL,GAArL,GAA2LC,WAA3L,GAAyM,GAAhN,CAA1B,GAAiP3L,OAAO,SAAS4L,MAAT,GAakB,GAAzB, CAAjP,GAAiR,GAAjR,GAAuR5L,OAAO,SAASqL,SAAT,GAAqB,GAA5B,CAAvR,GAA0T,IA5D1U;QA6DCQ ,gBAAgB,WAAW7L,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAakB,IAAZB,CAAZ,GAA6C,IAA7C, GAAoDC,KAApD,GAA4D,GAA5D,GAakeIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAAIE,GAAiG,IAAxG ,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,GAAoKC,cAApK,GAAqL,G AArL,GAA2LH,WAA3L,GAAyM,GAAhN,CAAX,GAako3L,OAAO,SAAS4L,MAAT,GAakB,GAAzB,CAAIO, GAakQ,GAAIQ,GAAwQ5L,OAAO,SAASqL,SAAT,GAAqB,GAA5B,CAAxQ,GAA2S,IA7D5T;QA8DCC,gBAA gB,OAAOC,OAAP,GAAiB,MAAjB,GAA0BvL,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAakB,IAA zB,CAAZ,GAA6C,IAA7C,GAAoDC,KAApD,GAA4D,GAA5D,GAakeIL,OAAO,SAASmL,KAAT,GAAiB,GAA xB,CAAIE,GAAiG,IAAxG,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,G AAoKC,cAApK,GAAqL,GAArL,GAA2LC,WAA3L,GAAyM,GAAhN,CAA1B,GAAiP3L,OAAO,SAAS4L,MAA



CAAV,CAAP;CAPD;;;;;;AAiBA,IAAMzC,SAAS,SAATA,MAAS,CAAShE,KAAT,EAAgB;;KAExBF,SAAS,EAAf;KACM6F,cAAc3F,MAAM9F,MAA1B;KACIQJ,IAAI,CAAR;KACIGB,IAAIuB,QAAR;KACIT,OAAOQ,WAAX;;;;;KAMIS,QAAQtG,MAAMjE,WAAN,CAAKb6J,SAAIb,CAAZ;KACIU,QAAQ,CAAZ,EAAe;UACN,CAAR;;MAGI,IAAIC,IAAI,CAAb,EAAgBA,IAAID,KAAPb,EAA2B,EAAEC,CAA7B,EAAgC;;MAE3BvG,MAAM8D,UAAAN,CAAiByC,CAAjB,KAAuB,IAA3B,EAAiC;WAC1B,WAAN;;SAEMpM,IAAP,CAAY6F,MAAM8D,UAAAN,CAAiByC,CAAjB,CAAZ;;;;;MAMI,IAAIhF,QAAQ+E,QAAQ,CAAR,GAAYA,QAAQ,CAAPb,GAAwB,CAAZc,EAA4C/E,QAAQoE,WAAPd,4BAA4F;;;;;;MAOvFO,OAAO3C,CAAX;OACK,IAAI4C,IAAI,CAAR,EAAWf,IAAIpG,IAAPb,qBAA8CoG,KAAKpG,IAANd,EAAyD;;OAEpDuC,SAASoE,WAAb,EAA0B;YACnB,eAAN;;OAGKS,QAAQC,aAAarG,MAAM8D,UAAAN,CAAiBvC,OAAjB,CAAb,CAAd;;OAEI6E,SAASpH,IAAT,IAAiBoH,QAAQpB,MAAM,CAACS,SAASIC,CAAV,IAAe4C,CAArB,CAA7B,EAA5D;YAC/C,UAAAN;;QAGIC,QAAQD,CAAb;OACMhB,IAAIC,KAAKC,IAAL,GAAYC,IAAZ,GAAoBF,KAAKC,OAAOE,IAAZ,GAAMbA,IAANb,GAA0BH,IAAIC,IAA5D;;OAEIe,QAAQjB,CAAZ,EAAe;;;OAITD,aAAaI,G,OAAOmG,CAA1B;OACIGB,IAAIInB,MAAMS,SAASP,UAAf,CAAR,EAAoC;YAC7B,UAAAN;;QAGIA,UAAAL;;MAIKe,MAAMnG,OAAO5F,MAAP,GAAgB,CAA5B;SACOWK,MAAMnB,IAAI2C,IAAV,EAAGBD,GAAhB,EAAGBC,QAAQ,CAA7B,CAAP;;;;;MAIIB,MAAMzB,IAAI0C,GAAY,IAAiBR,SAASIB,CAA9B,EAAiC;WAC1B,UAAAN;;OAGIS,MAAMzB,IAAI0C,GAAY,CAAL;OACKA,GAAL;;SAGOD,MAAP,CAAzc,GAAd,EAAMb,CAANb,EAA5BgB,CAAtB;;QAIMvI,OAAO+J,aAAP,eAAwBjG,MAAxB,CAAP;CAjFD;;;;;;AA2FA,IAAMiE,SAAS,SAATA,MAAS,CAAS/D,KAAAT,EAAgB;KACxBF,SAAS,EAAf;;SAGQoE,WAAWIE,KAAAX,CAAR;;KAGI2F,cAAc3F,MAAM9F,MAAxB;;KAGIQK,IAAIuB,QAAR;KACITB,QAAQ,CAAZ;KACIa,OAAOQ,WAAX;;;;;;uBAG2B7F,KAA3B,8HAAkC;OAAvBwF,cAAuB;;OAC7BA,iBA Ae,IAANb,EAAyB;WACjBrL,IAAP,CAAY0K,mBAAMbW,cAAANb,CAAZ;;;;;;KAIEZ,cAAc9E,OAAO5F,MAAzB;KACIuK,iBA AiBG,WAARb;;;;;KAMIA,WA AJ,EAAiB;SACTzK,IAAP,CAAYyL,SAAZ;;QAIMnB,iBA AiBkB,WAAXb,EAAqC;;MAIhCD,IAAID,MAAR;;;;;yBAC2BzF,KAA3B,mIAAkC;QAAvBwF,YAAuB;;QAC7BA,gBAAGbJb,CAAhB,IAAqBiB,eAAeE,CAAxC,EAA2C;SACtCF,YAAJ;MAMIB,wBAAwBF,iBA AiB,CAA/C;MACIiB,IAAIInB,CAAJ,GAAQS,MAAM,CAACS,SAASjB,KAAV,IAAMBG,qBAAzB,CAAZ,EAA6D;WACtD,UAAAN;;WAGQ,CAACe,IAAIInB,CAAL,IAAUI,qBAANb;MACIe,CAAJ;;;;;yBAE2B1F,KAA3B,mIAAkC;QAAvBwF,aAAuB;;QAC7BA,gBA AeJb,CAAf,IAAoB,EAAEC,KAAAF,GAAUib,MAAIC,EAA0C;aACnC,UAAAN;;QAEgd,iBAAGbJb,CAAPb,EAAuB;;SAEIBQ,IAAIP,KAAAR;UACk,IAAIY,IAAIpG,IAAb,qBA AuCoG,KAAKpG,IAA5C,EAAkD;UAC3CmG,IAAIC,KAAKC,IAAL,GAAYC,IAAZ,GAAoBF,KAAKC,OAAOE,IAAZ,GAAMbA,IAANb,GAA0BH,IAAIC,IAA5D;UACIN,IAAII,CAAR,EAAW;;UAGLF,UAAUF,IAAII,CAAPb;UACMD,aAAaI,G,OAAOmG,CAA1B;aACOhL,IAAP,CACC0K,mBAAMbC,aAAaK,IAAIF,UAAUC,UAA3B,EAAuC,CAAvC,CAANb,CADD;UAGIF,MAAMC,UAAUC,UAAhB,CAAJ;;YAGM/K,IAAP,CAAY0K,mBAAMbC,aAAaC,CAAb,EAAgB,CAAhB,CAANb,CAAZ;YACOL,MAAMF,KAAAN,EAAaG,qBAAb,EAAoCF,kBA AkBG,WAAtD,CAAP;aACQ,CAAR;OACEH,cAAF;;;;;;IAIAD,KAAF;IACED,CAAF;;QAGMzE,OAAO7F,IAAP,CAAY,EAAZ,CAAP;CArFD;;;;;;AAmGA,IAAMyB,YAAAY,SAAZA,SAAY,CAASsE,KAAT,EAAgB;QAC1BqE,UAAUrE,KAAV,EAAiB,UAASoE,MAAT,EAAiB;SACjCE,cAAcZ,EIAAd,CAAMbuE,MAANb,IACJJ,OAAOI,OAAOXI,KAAP,CAAa,CAAb,EAAgB/C,WAAhB,EAAP,CADI,GA EJUL,MAFH;EADM,CAAP;CADD;;;;;;AAmBA,IAAM5I,UAAU,SAAVA,OAAU,CAASwE,KAAT,EAAgB;QACxBqE,UAAUrE,KAAV,EAAiB,UAASoE,MAAT,EAAiB;SACjCD,cAAcE,IAAd,CAAMbuE,MAANb,IACJ,SAASL,OAAOK,MAAP,CADL,GAEJA,MAFH;EADM,CAAP;CADD;;;;;AAWA,IAAM7I,WA AW;;;;;YAML,OANK;;;;;SACr;YACG2I,UADH;YAEGD;EAhBK;WAKBND,MAIBM;WAMBND,MANBM;YAoBLvI,OApBK;cAqBHE;CArBd,CAwBA;;ADvbA;;;;;;AAoCA,AACA,AACA,AACA,AAiDA,AAAO,IAAMvD,UAA6C,EAAANd;AAEP,AAAA,SAAAUc,UAAA,CAA2BmJ,GAA3B,EAAA;QACQJ,IAAII,IAAIC,UAAJ,CAAe,CAAf,CAAV;QACIXI,UAAJ;QAEImI,IAAI,EAAR,EAAyNI,IAAI,OAAOmI,EAAE7F,QAAF,CAAW,EAAE,EAAPd,WAAf,EAAZ,KACK,IAAIiJ,IAAI,GAAR,EAAANi,IAAI,MAAMmI,EAAE7F,QAAF,CAAW,EAAE,EAAPd,WAAf,EAAV,CAAb,KACA,IAAIiJ,IAAI,IAAR,EAAcnI,IAAI,MAAM,CAAEmI,KAAK,CAAN,GAAW,GAAZ,EAAiB7F,QAAjB,CAA0B,EAA1B,EAA8BpD,WAA9B,EAAN,GAAoD,GAApD,GAA0D,CAAEiJ,IAALI,EAAL,GAAW,GAAZ,EAAiB7F,QAAjB,CAA0B,EAA1B,EAA8BpD,WAA9B,EAA9D,CAAd,KACAc,IAAI,MAAM,CAAEmI,KAAK,EAAN,GAA Y,GAAb,EAAkB7F,QAAIB,CAA2B,EAA3B,EAA+BpD,WAA/B,EAAN,GA

AqD,GAArD,GAA2D,CAAGiJ,KAAK,CAAN,GAAW,EAAZ,GAakB,GAAnB,EAAwB7F,QAAxB,CAAiC,EAAjC,EAAqCpD,WAArC,EAA3D,GAAgH,GAAhH,GAAsH,CAAeiJ,IAAI,EAAL,GAAW,GAAZ,EAAiB7F,QAAjB,CAA0B,EAA1B,EAA8BpD,WAA9B,EAA1H;WAEec,CAAP;;AAGD,AAAA,SAAAUb,WAAA,CAA4BD,GAA5B,EAAA;QACKyG,SAAS,EAAb;QACIE,IAAI,CAAR;QACMK,KAAKhH,IAAI1C,MAAf;WAEoqJ,IAAIK,EAAx,EAAe;YACRH,IAAI1C,SAASnE,IAAI0G,MAAJ,CAAWC,IAAI,CAAf,EAakB,CAAIB,CAAT,EAA+B,EAA/B,CAAV;YAEIE,IAAI,GAAR,EAAa;sBACFzH,OAAOwH,YAAP,CAAoBC,CAApB,CAAV;iBACK,CAAL;SAFD,MAIK,IAAIA,KAAK,GAAL,IAAYA,IAAI,GAAPB,EAAyB;gBACxBG,KAAKL,CAAN,IAAY,CAAhB,EAAMb;oBACZG,KAAK3C,SAASnE,IAAI0G,MAAJ,CAAWC,IAAI,CAAf,EAakB,CAAIB,CAAT,EAA+B,EAA/B,CAAX;0BACUvH,OAAOwH,YAAP,CAAqB,CAACC,IAAI,EAAL,KAAy,CAAb,GAAMBC,KAAK,EAA5C,CAAV;aAFD,MAGO;0BACI9G,IAAI0G,MAAJ,CAAWC,CAAX,EAAC,CAAd,CAAV;;iBAEI,CAAL;SAPI,MASA,IAAIE,KAAK,GAAT,EAAC;gBACbG,KAAKL,CAAN,IAAY,CAAhB,EAAMb;oBACZG,KAAK3C,SAASnE,IAAI0G,MAAJ,CAAWC,IAAI,CAAf,EAakB,CAAIB,CAAT,EAA+B,EAA/B,CAAX;0BACMI,KAAK5C,SAASnE,IAAI0G,MAAJ,CAAWC,IAAI,CAAf,EAakB,CAAIB,CAAT,EAA+B,EAA/B,CAAX;0BACUvH,OAAOwH,YAAP,CAAqB,CAACC,IAAI,EAAL,KAAy,EAAb,GAAoB,CAACC,KAAK,EAAN,KAAa,CAAJc,GAAuCC,KAAK,EAAhE,CAAV;aAHD,MAIO;0BACI/G,IAAI0G,MAAJ,CAAWC,CAAX,EAAC,CAAd,CAAV;;iBAEI,CAAL;SARI,MAUA;sBACM3G,IAAI0G,MAAJ,CAAWC,CAAX,EAAC,CAAd,CAAV;iBACK,CAAL;;;WAIKF,MAAP;;AAGD,SAAAD,2BAAA,CAAqCvJ,UAArC,EAA+D8F,QAA/D,EAAA;aACApF,gBAAC,CAA0BqC,GAA1B,EAAD;YACQF,SAASG,YAAYD,GAAZ,CAAF;eACQ,CAACF,OAAOzD,KAAP,CAAa0G,SAAShD,UAAAtB,CAAD,GAAqCC,GAArC,GAA2CF,MAAnD;;QAGG7C,WAAWxB,MAAf,EAABuBwB,WAAWxB,MAAX,GAAoB2D,OAAOnC,WAAWxB,MAAIB,EAA0BgC,OAA1B,CAAKCsF,SAASrF,WAA3C,EAAWDC,gBAAXD,EAA0E1B,WAA1E,GAAwFwB,OAAxF,CAAgGsF,SAASwD,UAAzG,EAAqH,EAARH,CAApB;QACnBtJ,WAAWoF,QAAx,KAAwB9F,SAA5B,EAACuCU,WAAWoF,QAAx,GAAsBjD,OAAOnC,WAAWoF,QAAIB,EAA4B5E,OAA5B,CAAoCsF,SAASrF,WAA7C,EAA0DC,gBAA1D,EAA4EF,OAA5E,CAAoFsF,SAASuD,YAA7F,EAA2GxI,UAA3G,EAACuHL,OAAvH,CAA+HsF,SAASrF,WAAxI,EAAqJE,WAArJ,CAAtB;QACnCX,WAAW8D,IAAX,KAAoBxE,SAAxB,EAAMCU,WAAW8D,IAAX,GAakB3B,OAAOnC,WAAW8D,IAAIB,EAABtD,OAAxB,CAAgCsF,SAASrF,WAAzC,EAASDC,gBAAtD,EAABE1B,WAAxE,GAAsFwB,OAAtF,CAA8FsF,SAASsD,QAAvG,EAACiHvI,UAAjH,EAA6HL,OAA7H,CAAqIsF,SAASrF,WAA9I,EAA2JE,WAA3J,CAAIB;QAC/BX,WAAWP,IAAX,KAAoBH,SAAxB,EAAMCU,WAAWP,IAAX,GAakB0C,OAAOnC,WAAWP,IAAIB,EAABwBe,OAAxB,CAAgCsF,SAASrF,WAAzC,EAASDC,gBAAtD,EAABwEF,OAAxE,CAAiFR,WAAWxB,MAAX,GAAoBsH,SAASoD,QAA7B,GAAwCpD,SAASqD,iBAAIL,EAASJtI,UAAAtJ,EAakKL,OAAIK,CAA0KsF,SAASrF,WAAAnL,EAAGME,WAAhM,CAAIB;QAC/BX,WAAWE,KAAx,KAAqBZ,SAAzB,EAAoCU,WAAWE,KAAx,GAAMBiC,OAAOnC,WAAWE,KAAIB,EAAYBM,OAAzB,CAAiCsF,SAASrF,WAA1C,EAAuDC,gBAAvD,EAAYEF,OAAzE,CAAiFsF,SAASmD,SAA1F,EAAqGpI,UAArG,EAACiHL,OAAjH,CAAYHsF,SAASrF,WAAII,EAA+IE,WAAI,CAAnB;QACChCX,WAAWiF,QAAx,KAAwB3F,SAA5B,EAACuCU,WAAWiF,QAAx,GAAsB9C,OAAOnC,WAAWiF,QAAIB,EAA4BzE,OAA5B,CAAoCsF,SAASrF,WAA7C,EAA0DC,gBAA1D,EAA4EF,OAA5E,CAAoFsF,SAASkD,YAA7F,EAA2GnI,UAA3G,EAACuHL,OAAvH,CAA+HsF,SAASrF,WAAxI,EAAqJE,WAArJ,CAAtB;WAEhCX,UAAP;;AACa;AAED,SAAA4I,kBAAA,CAA4B7F,GAA5B,EAAA;WACQA,IAAIvC,OAAJ,CAAY,SAAZ,EAACuB,IAAvB,KAAgC,GAAvC;;AAGD,SAAaqG,cAAA,CAAwB/C,IAAxB,EAAqCgC,QAArC,EAAA;QACOF,UAAU+D,KAAK1E,KAAAL,CAAW0G,SAAS2C,WAApB,KAAoC,EAAPD;;iCACoB1I,OAFrB;QAEU+I,OAFV;;QAIKA,OAAJ,EAAa;eACLA,QAAQtG,KAAR,CAAC,GAAd,EAAMbMg,GAAnB,CAAuBC,kBAAvB,EAA2CxI,IAA3C,CAAgD,GAAhD,CAAP;KADD,MAEO;eACC0D,IAAP;;;AAIF,SAAA8C,cAAA,CAAwB9C,IAAxB,EAAqCgC,QAArC,EAAA;QACOF,UAAU+D,KAAK1E,KAAAL,CAAW0G,SAASC,WAApB,KAAoC,EAAPD;;kCAC0BhG,OAF3B;QAEU+I,OAFV;QAEmBxB,I AFnB;;QAIKwB,OAAJ,EAAa;oCACUA,QAAQ9J,WAAR,GAAsBwD,KAAAtB,CAA4B,IAA5B,EAACuG,OAAIC,EADV;;YACLL,IADK;YACCG,KADD;;YAENR,cAAcQ,QAAQA,MAAMrG,KAAAN,CAAY,GAAZ,EAACiBmG,GAAjB,CAAqBC,kBAArB,CAAR,GAAMd,EAAvE;YACMN,aAAaI,KAAKIG,KAAAL,CAAW,GAAX,EAAGBmG,GAAhB,CAAoBC,kBAApB,CAAnB;YACMR,yBAAYbtC,SAAS2C,WAAT,CAAqBzC,IAArB,CAA0BsC,WAAWA,WAAWjI,MAAX,GAAoB,CAA/B,CAA1B,CAA/B;YACM8H,aAAaC,yBAAYB,CAAZB,GAA6B,CAAhD;YACMG,kBAakBD,WAAWjI,MAAX,GAAoB8H,UAA5C;YACMhI,SAASqI,MAAcL,UAA

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yBwC,QAAS,QAASKQ,IAAU,KAE9EE,GAAa,GAAI9M,QAAOtD,EAAM,MAAOqD,GAjBrB,uCAiBmD,KACn  
EgN,GAACd,GASdL,WACI,eAED,SAAUpK,AAA0BwD,MACrCmH,GAAMb3K,EACnB4K,EAACKD,EAaiBC,  
GAAMD,EAaiB9J,KAAO8J,EAaiB9J,KAAKpF,MAAM,aACrEoF,KAAOzF,UAEpBuP,EAaiB3J,MAAO,KAKt  
B,GAJD6J,IAaiB,EACfC,KACAC,EAauJ,EAaiB3J,MAAMvF,MAAM,KAEPcX,EAai,EAAGD,EAACKQ,EA  
AQpQ,OAAQG,EAaid,IAAMC,EAAG,IAC3CkQ,GAASD,EAQjQ,GAAGW,MAAM,YAExBuP,EAAO,QACT  
,SAEC,GADCC,GAAUD,EAAO,GAAGvP,MAAM,KACvBX,EAai,EAAGD,EAACKoQ,EAQQtQ,OAAQG,EAai  
D,IAAMC,IAC3CmE,KAAKgM,EAQnQ,cAGb,YACaoQ,QAAUrE,EAakBmE,EAAO,GAaiXh,aAEpD,SACa2  
H,KAAOE,EAakBmE,EAAO,GAaiXh,oBAGpC,IACtQD,EAakBmE,EAAO,GAaiXh,IAAYqD,EAakBmE,EA  
AO,GAaiXh,IAK7EqH,IAAgBF,EAaiBG,QAAUA,KAG/B9J,MAAQ5F,cAEpB,GAaiN,GAai,EAAGD,EAak+  
P,EAAGjQ,OAAQG,EAaid,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UAEpB,GAACKoL,E  
AAkBuE,EAak,IAE5B5H,EAQY,iBAQP,GAAKyC,EAakBuE,EAak,GAai5H,GAAS5H,yBALx,C,GAACK0I,  
EAASC,QAAQsC,EAakBuE,EAak,GAai5H,GAAS5H,eAC9D,MAAO4I,KACs1G,MAAQ6M,EAaiB7M,OAA  
S,2EAA6E0G,IAM/H1J,GAACKsQ,EAACKrQ,KAAK,WAGZ4P,cAGI,SAAUA,EAAMcNH,MACIDxD,GAAa2K,E  
ACbC,EAACK9O,EAQ6O,EAaiBC,OACChCA,EAai,KACF,GAai9P,GAai,EAAGD,EAak+P,EAAGjQ,OAAQ  
G,EAaid,IAAMC,EAAG,IACtCuQ,GAAS1L,OAAoiL,EAAG9P,IACnBwQ,EAQD,EAAOpF,YAAy,KAC3Bs  
F,EAaAF,EAaozQ,MAAM,EAAG0Q,GAQ7M,QAAQ8B,GAAaL,GAakBzB,QAAQ8B,GAAa1E,GAAa4C,QA  
AQ+L,GAAGbtL,GACxIsM,EAASH,EAaozQ,MAAM0Q,EAQ,SAItB9H,EAQC,IAA2Ea,EAASKB,UAAUGG  
,GAAXFIH,EAASC,QAAQsC,EAakB2E,EAQH,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWIC,O  
AAS,wDAA2D0F,EAQC,IAAgB,UAAV,SAAuB,kBAaOBe,IAGzJ1J,GAAKyQ,EAAY,IAAMC,IAGhB3K,KA  
AO+J,EAAG7P,KAAK,QAGrB+P,GAauH,EAaiBG,QAAUH,EAaiBG,WAExDH,GAaiBO,UAAJS,EAAS,QA  
AqBH,EAaiBO,SACHep,EAaiBQ,OAAML,EAAA,KAAKBH,EAaiBQ,SAExD3I,UACD,GAAMiJ,KAAQX,GA  
CdA,EAQW,KAAUnB,GAEmB,MAChBxM,KACNwM,EAAKhN,QAAQ8B,GAAaL,GAakBzB,QAAQ8B,G  
AAa1E,GAAa4C,QAAQgM,GAAYvL,GACIG,IACA4L,EAQW,GAAMhN,QAAQ8B,GAAaL,GAakBzB,QAA  
Q8B,GAAa1E,GAAa4C,QAAQiM,GAAaxL,UAI3GsD,GAAO7H,WACCqG,MAAQwB,EAaozH,KAAK,MAGz  
BiF,II/JH0L,GAAY,kBAIZtB,WACI,YAED,SAAUpK,AAA0BwD,MACrCIC,GAauTb,EAawA,MAAQb,EAaw  
a,KAAKT,MAAMsL,IACrDC,EAAGB3L,KAehBsB,EAAS,IACNhB,GAASKD,EAQID,QAAUqL,EAacrL,QAA  
U,MACnDsL,EAAMtK,EAQ,GAAG1F,cACjBiQ,EAAMvK,EAQ,GACdwK,EAaexL,EAaf,KAAyBkD,EA  
QoI,KAAOA,GACxC1H,EAAGBC,EAQ2H,KAehBF,IAAMA,IACNC,IAAMA,IACNhL,KAAOzF,UAEjB8I,M  
ACaA,EAACZ,MAAMqI,EAaenI,WAGtC1F,MAAQ6N,EAAC7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAa6BnI,  
MAC5CID,GAASKD,EAQID,QAAUqL,EAacrL,QAAU,MACnDsL,EAAMD,EAAC,IACpBE,EAaexL,EAaf,  
KAAyBkD,EAQoI,KAAOA,GACxC1H,EAAGBC,EAQ2H,EAe1B5H,OACaA,EAACqB,UAAUoG,EAaenI,O  
AGIDuI,GAAGBJ,EACHBE,EAAMF,EAACe,aACZhL,MAAU+K,GAOpI,EAQoI,KAAvC,IAA8CC,EAevCE,I  
CxDHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAa6BnI,MACxCyI,GAaiBN,WACRO,KAAOD,EAaeJ,MA  
CtBA,IAAMzQ,UAEhBoI,EAQwC,UAAciG,EAAC,MAASD,EAAC,KAAK9L,MAAM4L,QAC7DIO,MAAQ  
mO,EAaenO,OAAS,sBAGzCmO,aAGI,SAAUA,EAa+BzI,MAC9CmI,GAAGBM,WAERJ,KAAOI,EAAC,MAA  
Q,IAAItQ,cACzC+P,GC5BTxH,GAQkG,GAAK/J,QAAU+J,GAevBIG,EACQgI,GAAM7L,QAAU6L,GAExBH,  
EACQiI,GAAO9L,QAAU8L,GAEBjI,EACQkI,GAAIL,QAAU+L,GAEtBII,EACQ+H,GAACK5L,QAAU4L", "file  
": "dist/es5/uri.all.min.js", "sourcesContent": ["export  
function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\t\tsets[0] = sets[0].slice(0, -1);\n\t\t\tconst xl  
= sets.length - 1;\n\t\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t\t\t}\n\t\t\tsets[xl] =  
sets[xl].slice(1);\n\t\t\treturn sets.join("");\n\t\t}\n\t}\n\n\n\nexport function  
subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\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\n\nexport function toUpperCase(str:string):string {\n\treturn  
str.toUpperCase();\n}\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\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)





```

//RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n", "'use strict';\n\n/** Highest
positive signed 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring
parameters *\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst
initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // "\x2D"\n\n/** Regular expressions *\nconst
regexPunycode = /^xn--/;\nconst regexNonASCII
= /^[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490
separators\n\n/** Error messages *\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to
process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/**
Convenience shortcuts *\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst
stringFromCharCode = String.fromCharCode;\n\n/*-----
*\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns
{Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new
RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array}
array The array to iterate over.\n * @param {Function} callback The function that gets called for every
array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction
map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length-- > 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.\n\t\t// Leave the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring =
parts[1];\n\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring
= string.replace(regexSeparators, '\x2E');\n\t\tconst labels = string.split('.');\n\t\tconst encoded = map(labels,
fn).join('.');\n\t\treturn result + encoded;\n\t}\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\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\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else
{\n\t\t\t\toutput.push(value);\n\t\t\t\t}\n\t\t}\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

```







```

toUpperCase);\n\tif (components.fragment !== undefined) components.fragment =
String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\");\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
{\n\t\treturn address.split(".").map(_stripLeadingZeros).join(".");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [,
address, zone] = matches;\n\t\n\tif (address) {\n\t\tconst [last, first] =
address.toLowerCase().split("::").reverse();\n\t\tconst firstFields = first ? first.split(".").map(_stripLeadingZeros) :
[];\n\t\tconst lastFields = last.split(".").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\t\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";
\n\t\t\t\n\t\t\tif
(isLastFieldIPv4Address) {\n\t\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t\t}\n\t\t\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\t\tif (!field || field === "0") {\n\t\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\t\tlastLongest.length++;
\n\t\t\t\t\t} else
{\n\t\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t\t}\n\t\t\t\t\n\t\t\t\treturn acc;\n\t\t\t}, []);\n\t\t\n\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\n\t\tlet newHost:string;\n\t\t\n\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\n\t\t\tnewHost = newFirst.join(".") + ":" +
newLast.join(".");\n\t\t\t\n\t\t} else {\n\t\t\tnewHost = fields.join(".");\n\t\t\t\n\t\t\tif (zone) {\n\t\t\t\tnewHost += "%" +
zone;\n\t\t\t}\n\t\t\t\n\t\t\treturn newHost;\n\t\t} else {\n\t\t\treturn host;\n\t\t}\n\t}\n\n\n\tconst URI_PARSE =
/^(?:(?:[^\v?#]+):)?(?:\\v(?:[^\v?#@]*@)?|\\[[^\v?#\\]]+\\]|\\[[^\v?#]*\](?:\\d*)?)?(?:[^\v?#]*)(?:\\[(?:[^\v?#]*?)?#\](?:
.\\|\\r)*)?/i;\n\tconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>("").match(/(0)/))[1]
=== undefined;\n\n\texport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\t\n\tif (options.reference === "suffix") uriString = (options.scheme ? options.scheme + "://" :
"") + "\\/" + uriString;\n\t\n\tconst matches = uriString.match(URI_PARSE);\n\t\n\tif (matches) {\n\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme =
matches[1];\n\t\t\tcomponents userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || "";\n\t\t\tcomponents.query =
matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\t\t\t\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
{\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t\t\n\t\t\telse { //IE FIX for improper RegExp matching\n\t\t\t\t//store
each component\n\t\t\t\tcomponents.scheme
= matches[1] || undefined;\n\t\t\t\tcomponents userinfo = (uriString.indexOf("@") !== -1 ? matches[3] :
undefined);\n\t\t\t\tcomponents.host = (uriString.indexOf("/") !== -1 ? matches[4] :
undefined);\n\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6] ||
"";\n\t\t\t\tcomponents.query = (uriString.indexOf("?") !== -1 ? matches[7] :
undefined);\n\t\t\t\tcomponents.fragment = (uriString.indexOf("#") !== -1 ? matches[8] : undefined);\n\t\t\t\t\n\t\t\t\t//fix
port number\n\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\tcomponents.port =
(uriString.match(/\\v(?:[^\v?#]*@)?|\\[[^\v?#\\]]+\\]|\\[[^\v?#]*\](?:\\d*)?) ? matches[4] : undefined);\n\t\t\t\t}\n\t\t\t\t\n\t\t\t\tif (components.host)
{\n\t\t\t\t\t//normalize IP hosts\n\t\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t\t\t}\n\t\t\t\t\n\t\t\t\t//determine reference type\n\t\t\t\tif (components.scheme === undefined &&
components userinfo === undefined && components.host === undefined && components.port ===

```







```

: function (components:URIComponents, options:URIOptions):MailtoComponents {
 const mailtoComponents =
 components as MailtoComponents;
 const to = mailtoComponents.to = (mailtoComponents.path ?
 mailtoComponents.path.split(",") : []);
 mailtoComponents.path = undefined;
 if (mailtoComponents.query) {
 let unknownHeaders = false;
 const headers:MailtoHeaders = {};
 const hfields = mailtoComponents.query.split("&");
 for (let x = 0, xl = hfields.length; x < xl; ++x) {
 const hfield = hfields[x].split("=");
 switch (hfield[0]) {
 case "to":
 const toAddrs = hfield[1].split(",");
 for (let x = 0, xl = toAddrs.length; x < xl; ++x) {
 to.push(toAddrs[x]);
 if (x === xl - 1) break;
 }
 case "subject":
 mailtoComponents.subject = unescapeComponent(hfield[1],
 options);
 break;
 case "body":
 mailtoComponents.body =
 unescapeComponent(hfield[1], options);
 break;
 default:
 unknownHeaders =
 true;
 headers[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
 options);
 break;
 }
 }
 mailtoComponents.headers =
 headers;
 mailtoComponents.query = undefined;
 for (let x = 0, xl = to.length; x < xl; ++x) {
 const addr = to[x].split("@");
 taddr[0] = unescapeComponent(addr[0]);
 if (!options.unicodeSupport) {
 //convert Unicode IDN ->
 ASCII IDN
 try {
 taddr[1] = punycode.toASCII(unescapeComponent(addr[1],
 options).toLowerCase());
 } catch (e) {
 mailtoComponents.error = mailtoComponents.error || "Email
 address's domain name can not be converted to ASCII via punycode: " + e;
 } else {
 taddr[1] =
 unescapeComponent(addr[1], options).toLowerCase();
 tto[x] = addr.join("@");
 }
 return
 mailtoComponents;
 }
 \n\n
 serialize : function (mailtoComponents:MailtoComponents,
 options:URIOptions):URIComponents {
 const components = mailtoComponents as URIComponents;
 const
 to = toArray(mailtoComponents.to);
 if (to) {
 for (let x = 0, xl = to.length; x < xl; ++x) {
 const
 toAddr = String(to[x]);
 const atIdx = toAddr.lastIndexOf("@");
 const localPart = (toAddr.slice(0,
 atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
 toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);
 let
 domain = toAddr.slice(atIdx + 1);
 //convert IDN via punycode
 try {
 domain = (!options.iri ?
 punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) :
 punycode.toUnicode(domain));
 } catch (e) {
 components.error = components.error || "Email address's domain name can not be converted to
 " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
 }
 tto[x] = localPart + "@" +
 domain;
 components.path = to.join(",");
 headers = mailtoComponents.headers =
 mailtoComponents.headers || {};
 if (mailtoComponents.subject) headers["subject"] =
 mailtoComponents.subject;
 if (mailtoComponents.body) headers["body"] =
 mailtoComponents.body;
 const fields = [];
 for (const name in headers) {
 if (headers[name] !==
 O[name]) {
 fields.push({
 name:headers[name].replace(PCT_ENCODED,
 decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME,
 pctEncChar) + "=",
 headers[name].replace(PCT_ENCODED,
 decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE,
 pctEncChar)
 });
 }
 }
 if (fields.length) {
 mailtoComponents.query =
 fields.join("&");
 }
 return
 components;
 }
 \n\n
 export default handler;
 }
 import { URISchemeHandler, URIComponents, URIOptions } from
 \"/uri";
 import { buildExps } from \"/regexprs-uri";
 export default buildExps(true);
 \n\n
 import {
 URISchemeHandler, URIComponents, URIOptions } from \"/uri";
 const handler:URISchemeHandler =
 {
 scheme : "http",
 domainHost : true,
 parse : function (components:URIComponents,
 options:URIOptions):URIComponents {
 //report missing host
 if (!components.host) {
 components.error = components.error || "HTTP URIs must have a host.";
 }
 return
 components;
 }
 \n\n
 serialize : function (components:URIComponents, options:URIOptions):URIComponents
 {
 //normalize the

```



```
\./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \./schemes/urn-
uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \./uri\";\n"]}
```

Found in path(s):

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

## 1.456 python-certifi 2019.9.11

### 1.456.1 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.#

```
***** BEGIN LICENSE BLOCK *****
```

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```
***** END LICENSE BLOCK *****
```

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

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

## 1.457 has-flag 3.0.0

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## 1.458 chalk 2.4.2

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## 1.459 color-name 1.1.3

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## 1.460 chardet 3.0.4

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# 1.461 python-dateutil 2.8.1

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-----  
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## 1.465 pep517 0.5.0

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```
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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: Programming Language :: Python :: 2

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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](https://news.ycombinator.com/item?id=8871453) on that topic.

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

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

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

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

#### ASN.1 applications

-----

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

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

#### ASN.1 gotchas

-----

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

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

#### Documentation

-----

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

 /pyasn1/contents
```

#### Use case

-----

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

/example-use-case

## Download & Install

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```
.. toctree::
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```

/download

## Changes

-----

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

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

/changelog

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## Getting help

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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):

- \* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

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

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>)  
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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

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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)
0000: 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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* /pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md

1.467 pep517 0.7.0

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1.468 pystache 0.5.4

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1.469 ansi-styles 3.2.1

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1.470 emojis-list 2.1.0

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1.471 big.js 5.2.2

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1.472 source-list-map 2.0.1

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1.474 json-schema-traverse 0.4.1

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1.475 source-map 0.6.1

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1.476 pyrsistent 0.15.6

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1.478 lua-cjson 2.1.0

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1.479 pyasn1-modules 0.2.2

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1.480 chardet 3.0.4-2.ph4

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

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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.

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

c) 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.

d) 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.

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

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1.481 Idap-filter 0.2.1

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1.483 jedi 0.12.1

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