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1.7 has-ansi 2.0.0

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

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

Install

...

\$ npm install --save has-ansi

...

Usage

```js

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

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

```
//=> true
```

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

```
//=> false
```

```
...
```

## ## Related

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

## ## License

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# 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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*

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*

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*

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glennrp at users.sourceforge.net

June 26, 2010

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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1.55 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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1.62 debug 2.6.9

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1.70 ms 2.0.0

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1.75 is-equal-shallow 0.1.3

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1.162 websocket-client 0.47.0

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1.163 crypto-browserify 3.12.0

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1.164 brace-expansion 1.1.11

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1.165 process-nextick-args 2.0.0

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1.166 regenerator-runtime 0.11.1

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1.167 source-map 0.5.7

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1.168 coverage 4.3.4

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* /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

*/

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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* DATE: 2017-07-13  
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*  
* @author: Jack Doyle, jack@greensock.com  
*/
```

Found in path(s):

* /gsap-1-20-3-tgz/package/src/minified/plugins/PixiPlugin.min.js
* /gsap-1-20-3-tgz/package/PixiPlugin.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/PixiPlugin.js
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```
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* 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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* @author: Jack Doyle, jack@greensock.com  
**/
```

Found in path(s):

* /gsap-1-20-3-tgz/package/TEMPLATE_Plugin.js
* /gsap-1-20-3-tgz/package/src/uncompressed/plugins/TEMPLATE_Plugin.js
3b6db5483fda1df1d0ff00fbc41a47d7
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```
/*!  
* VERSION: beta 1.5.3
```



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**/

```

Found in path(s):

```

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

Found in path(s):

```

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

Found in path(s):

```

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

```

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

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

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**/

Found in path(s):

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

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

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

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* VERSION: 0.16.0

* DATE: 2017-10-02

* UPDATES AND DOCS AT: <http://greensock.com>

*

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

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

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

*

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*/

Found in path(s):

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

* /gsap-1-20-3-tgz/package/src/minified/utils/Draggable.min.js

* /gsap-1-20-3-tgz/package/src/uncompressed/utils/Draggable.js

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*/

```

Found in path(s):

```

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

```

```

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

```

```

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

```

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```

/*!
* VERSION: 0.1.12
* DATE: 2017-01-17
* UPDATES AND DOCS AT: http://greensock.com/jquery-gsap-plugin/
*
* Requires TweenLite version 1.8.0 or higher and CSSPlugin.
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*/

```

Found in path(s):

```

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

```

1.186 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

1

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1.187 netlink

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1.188 gojsonreference

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1.200 create-hash 1.2.0

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1.201 create-hmac 1.1.7

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1.202 diffie-hellman 5.0.3

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1.203 hash-base 3.0.4

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1.204 minimalistic-assert 1.0.1

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1.205 pbkdf2 3.0.16

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1.206 public-encrypt 4.0.2

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1.207 randomfill 1.0.4

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1.208 ripemd160 2.0.2

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1.209 ntlm-auth 1.2.0

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1.210 moment-duration-format 2.2.2

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1.211 ptyprocess 0.6.0

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1.212 backcall 0.1.0

1.213 jdcad 1.4

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1.214 django-auth-ldap 1.7.0

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1.215 django-import-export 1.0.1

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1.216 automat 0.7.0

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1.217 et-xmlfile 1.0.1

1.218 txaio 18.8.1

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1.219 django-cors-headers 2.4.0

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1.220 odfpy 1.3.6

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1.230 colorama 0.4.1

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1.231 jquery-ui 1.12.1

1.232 urllib3 1.24.2

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Contributions to the urllib3 project

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Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
 - * HTTPS patch (which inspired HTTPSConnectionPool)
- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
 - * NTLM-authenticated HTTPSConnectionPool
 - * Basic-authenticated HTTPSConnectionPool (merged into make_headers)
- * niphlod <niphlod@gmail.com>
 - * Client-verified SSL certificates for HTTPSConnectionPool
 - * Response gzip and deflate encoding support
 - * Better unicode support for filepost using StringIO buffers
- * btoconnor <brian@btoconnor.net>
 - * Non-multipart encoding for POST requests
- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
 - * Code review, PEP8 compliance, benchmark fix
- * kennethreitz <me@kennethreitz.com>
 - * Bugfixes, suggestions, Requests integration
- * georgemarshall <<https://github.com/georgemarshall>>
 - * Bugfixes, Improvements and Test coverage
- * Thomas Kluyver <thomas@kluyver.me.uk>
 - * Python 3 support
- * brandon-rhodes <<http://rhodesmill.org/brandon>>
 - * Design review, bugfixes, test coverage.
- * studer <theo.studer@gmail.com>
 - * IPv6 url support and test coverage
- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
 - * Support for explicitly closing pooled connections
- * hartator <hartator@gmail.com>
 - * Corrected multipart behavior for params
- * Thomas Weischuh <thomas@t-8ch.de>
 - * Support for TLS SNI
 - * API unification of ssl_version/cert_reqs
 - * SSL fingerprint and alternative hostname verification
 - * Bugfixes in testsuite

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * 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]

1.233 webpack-jquery-ui 2.0.1

1.234 bzip2 1.0.8

1.235 iptables 1.8.3

1.236 open-ldap 2.4.48

1.237 select2 4.0.8

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1.238 sqlite 3.30.1

1.239 json-c 0.99.8

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1.240 gmp 6.1.2

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Version 3, 29 June 2007

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1.241 ncurses 6.1

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1.242 python-requests 2.22.0

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1.243 popt 1.16

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1.244 python-lxml 4.4.1

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1.245 pyparsing 2.4.2

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1.247 urllib3 1.25.6

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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

* georgemmarshall <<https://github.com/georgemmarshall>>

* Bugfixes, Improvements and Test

coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
 - * Python 3 support
- * brandon-rhodes <<http://rhodesmill.org/brandon>>
 - * Design review, bugfixes, test coverage.
- * studer <theo.studer@gmail.com>
 - * IPv6 url support and test coverage
- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
 - * Support for explicitly closing pooled connections
- * hartator <hartator@gmail.com>
 - * Corrected multipart behavior for params
- * Thomas Weischuh <thomas@t-8ch.de>
 - * Support for TLS SNI
 - * API unification of ssl_version/cert_reqs
 - * SSL fingerprint and alternative hostname verification
 - * Bugfixes in testsuite
- * Sune Kirkeby <mig@ibofobi.dk>
 - * Optional SNI-support for Python 2 via PyOpenSSL.
- * Marc Schlaich <marc.schlaich@gmail.com>
 - * Various bugfixes and test improvements.
- * Bryce Boe <bbzbryce@gmail.com>
 - * Correct six.moves conflict
 - * Fixed pickle support of some exceptions
- * Boris Figovsky <boris.figovsky@ravellosystems.com>
 - * Allowed to skip SSL hostname verification
- * Cory Benfield
<<https://lukasa.co.uk/about/>>
 - * Stream method for Response objects.
 - * Return native strings in header values.
 - * Generate 'Host' header when using proxies.
- * Jason Robinson <jaywink@basshero.org>
 - * Add missing WrappedSocket.fileno method in PyOpenSSL
- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 - * Fixed a race condition

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * 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]

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1.248 jsonref 0.2

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1.252 libxml2 2.9.10

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1.253 python-requests 2.21.0

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1.254 python-dockerpty 0.4.1

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1.255 core-js 2.5.5

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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1.266 libyaml 0.2.2

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1.267 dhcp 4.4.1

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- \$Id\$ -->

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

<xsl:stylesheet version="1.0"

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

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

```

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

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

<!--
- Local variables:
- mode: sgml
- End:
-->

```

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1.268 fs.realpath 1.0.0

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1.269 evp_bytestokey 1.0.3

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1.270 backbone.radio 2.0.0

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1.271 randombytes 2.0.6

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1.272 bn.js 4.11.8

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1.273 hash.js 1.1.5

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1.274 string_decoder 1.1.1

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1.275 asn1.js 4.10.1

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1.276 object.assign 4.1.1

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1.278 Idap-filters 2.2.2

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1.279 object.omit 2.0.1

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1.281 backbone.marionette 3.4.4

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1.287 start-stop-daemon 1.18.10

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```

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1.288 text-encoding-shim 1.0.4

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1.289 docker-pycreds 0.4.0

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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 netcat 0.7.1

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

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<xsl:stylesheet version="1.0"  
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
  xmlns:xi="http://www.w3.org/2001/XInclude"  
  xmlns:db="http://docbook.org/ns/docbook">  
  
  <xsl:template name="isc.copyright.format">  
    <xsl:param name="text"/>  
    <xsl:value-of select="$isc.copyright.leader"/>  
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>  
    <xsl:text>&#10;</xsl:text>  
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>  
    <xsl:if test="translate($rest, '&#9;&#32;', ' ')">  
  
      <xsl:call-template name="isc.copyright.format">  
        <xsl:with-param name="text" select="$rest"/>  
      </xsl:call-template>  
    </xsl:if>
```

```

</xsl:template>

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

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

<!--
- Local variables:
- mode: sgml
- End:
-->

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1.297 redis 5.0.7

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1.298 pyasn1 0.4.4

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1.300 pycparser 2.19

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1.301 pyasn1 0.1.9

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1.302 ntp 4.2.8p15

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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snTP to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP-UX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port

54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1.310 asgiref 3.2.3

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1.312 cached-property 1.5.1

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1.314 channels-redis 2.4.2

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1.317 docker 4.1.0

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1.318 hiredis 0.2.0

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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

```
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```

/pyasn1/contents

Use case

```
.. toctree::
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```

/example-use-case

Download & Install

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/download

Changes

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

the latest fixes and improvements.

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

```

ASN.1 library for Python

```

-----
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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```

blue.svg)](<https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt>)

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

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

Features

*

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

* Standards compliant BER/CER/DER codecs

* Dumps/loads ASN.1 structures from Python types

* 100% Python, works with Python 2.4 up to Python 3.7

* MT-safe

* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

```
``python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
``
```

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

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


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

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

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

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

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

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

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

```
```python
```

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

```

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

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

How to get pyasn1

-----

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

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

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

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Found in path(s):  
\* /etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/README.md

## 1.326 python-blessed 1.17.5

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

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## 1.332 docker-proxy

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## 1.333 docker-engine 19.03.5

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Protocol Buffers for Go with Gadgets

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

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# 1.342 remove-trailing-separator 1.1.0

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## 1.345 babel-helper-regex 6.26.0



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## 1.367 schema-utils 0.4.7

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## 1.388 bash 5.0

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

@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:

#### @enumerate a

##### @item

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.

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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.

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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.

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@enumerate a

@item

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

@item

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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```
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@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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`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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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.

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

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# 1.395 pem 21.1.0

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# 1.396 simplegeneric 0.8.1

## 1.396.1 Available under license :

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

Development Status :: 6 - Mature

Development Status :: 7 - Inactive

Intended Audience :: Developers

License :: OSI Approved :: Zope Public License

Programming Language :: Python

Programming Language :: Python :: 2

Programming Language :: Python :: 2.4

Programming Language :: Python :: 2.5

Programming Language :: Python :: 2.6

Programming Language :: Python :: 2.7

Programming Language :: Python :: 3

Operating System :: OS Independent

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

Found in path(s):

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

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

Metadata-Version: 1.0

Name: simplegeneric

Version: 0.8.1

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

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

Author: Phillip J. Eby

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

License: ZPL 2.1

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

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

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

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

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

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

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

## Usage

-----

Defining and using a generic function is straightforward::

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

```

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

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

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

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

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

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

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

```

## Inheritance and Allowed Types

-----

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

```

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

>>> @move.when_object(zig)
... def this_is_wrong(item, target): pass
Traceback (most recent call last):
...

```

TypeError: <function move...> already has method for object <object ...>

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

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

Methods defined for supertypes are inherited following MRO order::

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

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

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

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

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

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

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

## Multiple Types or Objects

-----

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

```
>>> @generic
... def isbuiltin(ob):
... return False
>>> @isbuiltin.when_type(int, str, float, complex, type)
```

```
... @isbuiltin.when_object(None, Ellipsis)
... def yes(ob):
... return True
```

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

## Defaults and Docs

-----

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

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

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

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

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

## Inspection and Extension

-----

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

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

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

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

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

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

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

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

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

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

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

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

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

## Limitations

-----

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

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

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

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

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

Platform: UNKNOWN

Classifier:

Development Status :: 6 - Mature

Classifier: Development Status :: 7 - Inactive

Classifier: Intended Audience :: Developers

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

Classifier: Programming Language :: Python

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

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## 1.397 pystache 0.5.4

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## 1.398 msgpack 0.6.2

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## 1.399 urllib3 1.25.6

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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
- \* georgemarshal <<https://github.com/georgemarshal>>
- \* Bugfixes, Improvements and Test coverage
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- \* 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](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto: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](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
- \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <[tim.burke@gmail.com](mailto:tim.burke@gmail.com)>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <[tuukka.mustonen@gmail.com](mailto:tuukka.mustonen@gmail.com)>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <[erik@mozilla.com](mailto:erik@mozilla.com)>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <[wolfgang.richter@gmail.com](mailto:wolfgang.richter@gmail.com)>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <[github@mikeage.net](mailto:github@mikeage.net)>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <[mail@itziakos.gr](mailto: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]

## 1.400 pytz 2018.5



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## 1.401 pyopenssl 19.1.0

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# 1.405 rfc3987 1.3.7

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## 1.406 loader-utils 1.2.3

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 */
```

Found in path(s):

```
* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/docs/licenses.rst
```

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

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\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/setup.py

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\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/xlsx.py

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\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/scripts/runxlrd.py

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\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/biffh.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/sheet.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/xldate.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/formula.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/formatting.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/compdoc.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/book.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/\_\_init\_\_.py

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Found in path(s):

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_formulas.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_cell.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_formats.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_workbook.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_sheet.py

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Found in path(s):

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/timemachine.py

\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/examples/xlrdnameAPIdemo.py

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\* /python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/tests/test\_xldate.py

# 1.408 django 2.1.4

## 1.408.1 Available under license :

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====

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=====

Advice for new contributors

=====

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

.. admonition:: Basic tools and workflow

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

First steps

=====

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

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

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

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

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

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

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

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

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

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

Django's documentation is great but it can always be improved. Did you find



a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

.. note::

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

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

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

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

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

## Guidelines

=====

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

**\* \*\*Pick a subject**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

.. \_new-contributors-faq:

FAQ

===

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

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The

best thing to do is to  
send a gentle reminder to the |django-developers|  
mailing list asking for review on the ticket, or to bring it up in the  
`#django-dev` IRC channel.

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

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

## A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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

|               |           |      |     |     |
|---------------|-----------|------|-----|-----|
| 2.0.1         | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2         | 2.1.1     | 2002 | PSF | yes |
| 2.1.3         | 2.1.2     | 2002 | PSF | yes |
| 2.2 and above |           |      |     |     |
| 2.1.1         | 2001-now  | PSF  |     | yes |

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

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

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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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package model

import "time"

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

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

// IssuedLicense represents an issued license

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

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

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

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

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

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

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package engine

```
import (
 "time"

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

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

 numHeader = "NUM"
 ownerHeader = "OWNER"
 licenseNameHeader = "NAME"
 idHeader = "ID"
 dockerIDHeader = "DOCKER ID"
 productIDHeader = "PRODUCT ID"
 productRatePlanHeader = "PRODUCT RATE PLAN"
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
 startHeader = "START"
 expiresHeader = "EXPIRES"
 stateHeader = "STATE"
 eusaHeader = "EUSA"
 pricingComponentsHeader = "PRICING COMPONENTS"
)

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



```

return formatter.Format(source)
}

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

```

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Protocol Buffers for Go with Gadgets



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package engine

```
import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"
```

```
"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
"gotest.tools/assert"
is "gotest.tools/assert/cmp"
)
```

```
func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
 context formatter.Context
 expected string
 }{
 // Errors
 {
 formatter.Context{Format: "{{InvalidFunction}}"},
 `Template parsing error: template: :1: function "InvalidFunction" not defined`
 },
 {
 formatter.Context{Format: "{{nil}}"},
 `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command`
 },
 },
}
```

```
// Table format
{
 formatter.Context{Format: NewSubscriptionsFormat("table", false)},
 `NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2
 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
`,
},
{
 formatter.Context{Format: NewSubscriptionsFormat("table", true)},
 `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
 formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
 `OWNER
owner1
owner2
`,
},
{
 formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
 `OWNER
owner1
owner2
`,
},
// Raw Format
{
 formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
 `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
`,
},
{
 formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
 `license: id1
license: id2
```

```

`,
},
// Custom Format
{
 formatter.Context{Format: NewSubscriptionsFormat("{.Owner}}", false)},
 `owner1
owner2
`,
},
}

```

```

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

```

```

for _, testcase := range cases {
 subscriptions := []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 10,
 },
 },
 },
 ComponentsString: "compstring",
 },
 {
 Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{
 ID: "id2",
 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 20,
 },
 },
 },
 },
 },
}

```

```

 ComponentsString: "compstring",
},
}
out := &bytes.Buffer{}
testcase.context.Output
= out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
 assert.Error(t, err, testcase.expected)
} else {
 assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
 {
 Num: 1,
 Owner: "owner1",
 Subscription: model.Subscription{
 ID: "id1",
 Name: "name1",
 ProductID: "productid1",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name: "nodes",
 Value: 10,
 },
 },
 },
 ComponentsString: "compstring",
 },
 {
 Num: 2,
 Owner: "owner2",
 Subscription: model.Subscription{
 ID: "id2",
 Name: "name2",
 ProductID: "productid2",
 Expires: &expiration,
 PricingComponents: model.PricingComponents{
 &model.SubscriptionPricingComponent{
 Name:
"nodes",
 Value: 20,
 },
 },
 },
 },
 }
}

```

```

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

```

```

 "ProductRatePlanID": "",
 "State": "",
 "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

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

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1, Owner:
 "owner1"},
 {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{}
 err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
 if err != nil {
 t.Fatal(err)
 }
 for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var s string
 if err := json.Unmarshal([]byte(line), &s); err != nil {
 t.Fatal(err)
 }
 assert.Check(t, is.Equal(subscriptions[i].Owner, s))
 }
}

```

# 1.421 glib 2.62.4

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## 1.422 libatomic 7.6.10

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## 1.423 runc 1.0.0-rc10

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If such an object file uses only numerical parameters, data structure layouts

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>>> freebsd-base64-4.8

>>> unicode-5.0

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>>> freebsd-base64-4.8

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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Version 2.8, 17 August

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## 1.427 parse-asn1 5.1.1

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ISC

## 1.428 python-certifi 2019.11.28

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

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

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

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

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

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

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

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

# 1.429 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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Version 2, June 1991

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## 1.438 json5 1.0.1

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# 1.444 Iodash 4.17.11

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## 1.445 service-identity 18.1.0

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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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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.

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

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Any executables

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

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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

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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.

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# 1.447 libaio 0.3.111

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

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MA 02111-1307 USA

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mail.

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your  
school, if any, to sign a "copyright disclaimer" for the library, if  
necessary. Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.448 sapy 1.4.7

### 1.448.1 Available under license :

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

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

Found in path(s):

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

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

Smart Licensing Status

=====

{{get\_license\_status}}

Evaluation Period:

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

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

License Usage

=====

{{^get\_license\_usage}}{{get\_line\_break}}No licenses in  
use{{get\_line\_break}}{{/get\_license\_usage}}{{#get\_license\_usage}}  
License: {{#name}}{{name}}{{/name}}  
Entitlement Tag: {{#name-tag}}{{name-tag}}{{/name-tag}}  
Description: {{#description}}{{description}}{{/description}}  
Count: {{#count}}{{count}}{{/count}}  
Version: {{#version}}{{version}}{{/version}}  
Status: {{#status}}{{status}}{{/status}}  
Status time: {{#status\_time}}{{status\_time}}{{/status\_time}}  
Request Time: {{#request\_time}}{{request\_time}}{{/request\_time}}{{#export-status}}{{get\_line\_break}}  
Export status: {{export-status}}{{/export-status}}{{#feature}}{{get\_line\_break}} Feature name:  
{{feature}}{{/feature}}{{#feature description}}{{get\_line\_break}}  
Feature Description: {{feature description}}{{/feature description}}  
{{/get\_license\_usage}}

#### Product Information

=====

{{get\_license\_udi}}

Agent Version

=====

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

#### Upcoming Scheduled Jobs

=====

Certificate Renewal: {{get\_cert\_renewal}}  
Certificate Expiration: {{get\_cert\_expiration\_check}}  
Authorization Renewal: {{get\_auth\_renewal}}  
Authorization Expiration: {{get\_auth\_expiration\_check}}  
Evaluation Expiration Check: {{get\_eval\_expiration\_check}}  
Register Period Expiration Check: {{get\_register\_period\_expiration\_check}}  
Ack Expiration Check: {{get\_ack\_expiration\_check}}

#### License Certificates

=====

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

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

PIID: {{get\_piid}}

Licensing Certificates:

ID Cert Info:

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

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

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

Serial Number:

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

Common Name:

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

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

Attributes:

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

Serial Number:

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

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

Signing Cert Info:

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:

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Issuer Name:

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

Attributes:

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

Intermediate Cert info:

Start Date:

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

Expiry Date:

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

Version:

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

Serial Number:

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

Common Name:

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

Issuer Name:

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

Attributes:

CN:

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

O:

```

{{#get_intermediate_cert_attributes_o}}{{get_intermediate_cert_attributes_o}}{{/get_intermediate_cert_attributes_o}}
{{/get_license_certificates_default}}{{#get_license_certificates_default}}Production
cert:
{{get_production_cert}}{{get_line_break}}{{get_license_certificates_default}}{{get_line_break}}{{/get_license_certificates_default}}
Other info
=====
Software ID: {{get_software_tag}}
Tenant State: {{get_tenant_state}}
Transport: {{get_transport}}
Locale: {{get_locale}}
Tenants available: {{get_list_of_tenants_created}}
Reservation enable: {{get_reservation_enable}}
{{#get_reservation_enable}}
Reservation status: {{get_reservation_status}}
Reservation Request code: {{get_reservation_request_code}}
Reservation authorization code: {{get_reservation_auth_code}}
Reservation return code: {{get_reservation_return_code}}
Reservation confirmation code: {{get_reservation_confirmation_code}}
{{/get_reservation_enable}}

```

Found in path(s):

```

* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/clitools/cliexecuter/show_tech_support.mustache
* /sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-
v1.4.7/sapy/builtins/show_api/templates/show_tech_support.mustache
No license file was found, but licenses were detected in source scan.

```

```

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"cell_type": "markdown",
"metadata": {},
"source": [
"# Setup\n",
"\n",
"The parameters below should be configured before running the notebook."
]
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{
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"metadata": {},
"outputs": [],
"source": [
"SQLITE_PATH = \"/path/to/db.sqlite\"\n",
"C_LIBRARY_PATH = \"/path/to/libSmartSecurity.so\""
]
}
]

```



```

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

```

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```

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 "plt.xlabel('Number of Tenants')\n",
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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):

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

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 "sapy.mock.settings[\"datastore.filepath\"] = SQLITE_PATH\n",
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 "from IPython.display\n",
 "import display\n",
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 "number = 100\n",
 "progress_bar = FloatProgress(min=0, max=number)\n",
 "display(progress_bar)\n",
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 "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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```

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"$ pip install matplotlib\n",
"```\n",
"\n",
"* More details at official [matplotlib](https://matplotlib.org/users/installing.html) installation page.\n"
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```

Found in path(s):

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

# 1.449 lvm2 2.02.185

## 1.449.1 Available under license :

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Version 2.1, February 1999



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# 1.455 python-lxml 4.6.5

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## 1.462 glibc 2.33-6-

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# 1.466 linux-kernel 5.15.117

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

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

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

\*

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

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

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

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

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

\*

\* Implementing minimal-copy of received data:

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

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

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

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

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

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

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

\*

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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

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

\*

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

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

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

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

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

\*

\* Implementing minimal-copy of received data:

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

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

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

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

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

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

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

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\*

\* M. Welsh, 6 July 1996

\*

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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.

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

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

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

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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.
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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,

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Open-vm-tools v10.3.0

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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```
#!/usr/bin/env bash
```

```
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
This script will read the license file into memory, strip out the copyright, and then
```

```
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
 local FILE="$1"
```

```
 # Read the contents of the file into a variable
```

```
 local raw_license_text=$(<"$FILE")
```

```
 # Convert to lowercase
```

```
 local lowercase_license_text="${raw_license_text,,}"
```

```
 # Remove anything before the beginning of the license
```

```
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
 # Replace line breaks (Windows or Linux) with a single space
```

```
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
 # Strip away any non-printable, non-whitespace characters
```

```
 local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
 # Remove punctuation and special characters
```

```
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z]//g')
```

```
 # Calculate the MD5 sum of the cleaned license text
```

```
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```

Output the MD5 sum
echo "$MD5SUM"
}

Check if the FILE argument is provided
if [-z "$1"]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

```

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

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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
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(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.)

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# 1.477 python-pip 19.3.1

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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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 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 |
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| 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 |
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In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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| 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                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2.1.1 | 2002      | PSF | yes |
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| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
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ca-bundle.crt -- Bundle of CA Root Certificates

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

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

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

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

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handler:URISchemeHandler<MailtoComponents> = {\n\ttscheme : \"mailto\", \n\n\tparse : function
(components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to
= (mailtoComponents.path ? mailtoComponents.path.split(\"\\\") : []);\n\t\tmailtoComponents.path =
undefined;\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst
headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split('&');\n\t\t\tfor (let x = 0, xl =
hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split('=');\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\t\tcase
\"to\":\n\t\t\t\t\t\tconst toAddr = hfield[1].split(',');\n\t\t\t\t\t\tfor (let x = 0, xl = toAddr.length; x < xl; ++x)
{\n\t\t\t\t\t\t\ttto.push(toAddr[x]);\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase
\"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\t\tmailtoComponents.body =
unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tdefault:\n\t\t\t\t\t\tunknownHeaders =
true;\n\t\t\t\t\t\ttheaders[unescapeComponent(hfield[0], options)]
= unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\tif (unknownHeaders)
mailtoComponents.headers = headers;\n\t\t\t}\n\t\t\tmailtoComponents.query = undefined;\n\t\t\tfor (let x = 0, xl =
to.length; x < xl; ++x) {\n\t\t\t\tconst addr = to[x].split('@');\n\t\t\t\ttaddr[0] =
unescapeComponent(addr[0]);\n\t\t\t\tif (!options unicodeSupport) {\n\t\t\t\t\t//convert Unicode IDN -> ASCII
IDN\n\t\t\t\t\ttry {\n\t\t\t\t\t\ttaddr[1] = punycode.toASCII(unescapeComponent(addr[1],
options).toLowerCase());\n\t\t\t\t\t} catch (e) {\n\t\t\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email
address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t\t\t\t}\n\t\t\t\t\t} else {\n\t\t\t\t\t\ttaddr[1] =
unescapeComponent(addr[1], options).toLowerCase();\n\t\t\t\t\t\t}\n\t\t\t\t\ttto[x] = addr.join('@');\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t\treturn
mailtoComponents;\n\t\t}, \n\n\tserialize : function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components
= mailtoComponents as URIComponents;\n\t\tconst to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\t\tfor (let x
= 0, xl = to.length; x < xl; ++x) {\n\t\t\t\tconst toAddr = String(to[x]);\n\t\t\t\tconst atIdx =
toAddr.lastIndexOf('@');\n\t\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet
domain = toAddr.slice(atIdx + 1);\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\t\tdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t\t}
catch (e) {\n\t\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t\t\t}\n\t\t\t\t\ttto[x] = localPart + '@' +
domain;\n\t\t\t\t\t}\n\t\t\t\t\tcomponents.path = to.join(',');\n\t\t\t\t\t}\n\t\t\t\t\tconst headers = mailtoComponents.headers
= mailtoComponents.headers || {};\n\t\t\t\t\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\t\t\t\t\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\t\t\t\t\tconst fields = [];\n\t\t\t\t\tfor (const name in headers) {\n\t\t\t\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\t\t\t\tfields.push(\n\t\t\t\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) + \"=\" +
\n\t\t\t\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t\t\t\t\t);\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\tif (fields.length)
{\n\t\t\t\t\t\tcomponents.query = fields.join('&');\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\t\treturn components;\n\t\t}\n\n\t}\n\n\texport default
handler;\", \"import { URISchemeHandler, URIComponents, URIOptions } from '../uri';\", \"import http from
'/http';\", \"\n\n\tconst handler:URISchemeHandler = {\n\t\ttscheme : \"https\", \n\t\ttomainHost : http.domainHost, \n\n\t\tparse : http.parse, \n\n\t\tserialize
: http.serialize\n\t}\n\n\texport default handler;\", \"import { URISchemeHandler, URIComponents, URIOptions } from
../uri\", \"\n\n\tconst handler:URISchemeHandler = {\n\t\ttscheme : \"http\", \n\t\ttomainHost : true, \n\n\t\tparse : function
(components:URIComponents, options:URIOptions):URIComponents {\n\t\t\t//report missing host\n\t\t\tif
(!components.host) {\n\t\t\t\t\tcomponents.error = components.error || \"HTTP URIs must have a
host.\";\n\t\t\t\t\t}\n\t\t\t\t\treturn components;\n\t\t\t}\n\n\t\tserialize : function (components:URIComponents,

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options:URIOptions):URIComponents {  
(String(components.scheme).toLowerCase() !== "https" ? 80 : 443) || components.port === undefined;  
normalize the empty path (!components.path)  
NOTE: We do not parse query strings for HTTP URIs/as WWW Form Url Encoded query strings are part of the HTML4+ spec,  
not the HTTP spec.  
return components;  
};  
export default handler;"/>  
URI.js  
An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.  
@author <a href="mailto:gary.court@gmail.com">Gary Court</a>  
@see <http://github.com/garycourt/uri-js>  
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{\n\ttscheme?:string;\n\tuserinfo?:string;\n\tthost?:string;\n\ttport?:number|string;\n\ttpath?:string;\n\ttquery?:string;\n\ttfragment?:string;\n\ttreference?:string;\n\tterror?:string;\n}\n\n\nexport interface URIOptions {\n\ttscheme?:string;\n\ttreference?:string;\n\tttolerant?:boolean;\n\ttabsoPath?:boolean;\n\ttiri?:boolean;\n\ttunicodeSupport?:boolean;\n\ttdomainHost?:boolean;\n}\n\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\ttscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\ttunicodeSupport?:boolean;\n\ttdomainHost?:boolean;\n\ttabsoPath?:boolean;\n}\n\n\nexport interface URIRegExps {\n\t\tNOT_SCHEME : RegExp,\n\t\tNOT_USERINFO : RegExp,\n\t\tNOT_HOST : RegExp,\n\t\tNOT_PATH : RegExp,\n\t\tNOT_PATH_NOScheme : RegExp,\n\t\tNOT_QUERY : RegExp,\n\t\tNOT_FRAGMENT : RegExp,\n\t\tESCAPE : RegExp,\n\t\tUNRESERVED : RegExp,\n\t\tOTHER_CHARS : RegExp,\n\t\tPCT_ENCODED : RegExp,\n\t\tIPV4ADDRESS : RegExp,\n\t\tIPV6ADDRESS : RegExp,\n}\n\n\nexport const SCHEMES: {[scheme:string]:URISchemeHandler} = {};\n\n\nexport function pctEncChar(chr:string):string {\n\t\tconst c = chr.charCodeAt(0);\n\t\tlet e:string;\n\t\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\t\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\t\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\t\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\t\treturn e;\n}\n\n\nexport function pctDecChars(str:string):string {\n\t\tlet newStr = \"\";\n\t\tlet i
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= 0;\n\tconst il = str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\t\tif (c < 128)\n\t\t\tnewStr += String.fromCharCode(c);\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\telse if (c >= 224) {\n\t\t\t\tif ((il - i) >= 9) {\n\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\t} else {\n\t\t\t\t\tnewStr += str.substr(i, 9);\n\t\t\t\t}\n\t\t\t}\n\t\t\telse {\n\t\t\t\tnewStr += str.substr(i, 3);\n\t\t\t\ti += 3;\n\t\t\t}\n\t\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\tif (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, '');\n\tif (components userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOScheme), pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\n\treturn components;\n}\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn str.replace(/^0*(.*)/, '$1');\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\tif (address) {\n\t\treturn address.split('.').map(_stripLeadingZeros).join('.');\n\t} 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\tif (address) {\n\t\tconst [last, first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split('').map(_stripLeadingZeros) : [];\n\t\tconst lastFields = last.split('').map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 : 8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor (let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t\tif (isLastFieldIPv4Address) {\n\t\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1], protocol);\n\t\t\t}\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field, index) => {\n\t\t\tif (!field || field === '0') {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest && lastLongest.index + lastLongest.length === index)\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\telse\n\t\t\t\t\tacc.push({ index, length: 1 });\n\t\t\t}\n\t\t\treturn acc;\n\t\t}, []);\n\t\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\tlet newHost:string;\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\tnewHost = newFirst.join('.') + '::' + newLast.join('.');\n\t\t} else {\n\t\t\tnewHost = fields.join(':');\n\t\t}\n\t\tif (zone) {\n\t\t\tnewHost += '%' + zone;\n\t\t}\n\t\treturn newHost;\n\t}\n\treturn host;\n}\n\nfunction _normalizeURL(input:string, options?:URINormalizationOptions):string {\n\tif (!input) return '';\n\tconst uri = new URI(input);\n\turi.normalize(options);\n\treturn uri.toString();\n}\n\nexport { _normalizeURL };

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newHost;\n\t} else {\n\t\treturn host;\n\t}\n}\n\nconst URI_PARSE =
/^((?:[^\W?#]+):)?(?:\\V\\((?:[^\W?#@]*)@)?(\\[[^\W?#\\]]+\\)[^\W?#:]*)?(?:\\:(\\d*))?)?(\\^?#*)(?:\\?(\\^#*))?(?:#((?:.\\|\\n|\\r*)))?/i;\nconst NO_MATCH_IS_UNDEFINED
= (<RegExpMatchArray>("").match(/(){}[0]{})[1] === undefined;\n\nexport function parse(uriString:string,
options:URIOptions = {}):URIComponents {\n\tconst components:URIComponents = {};\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\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\t\tcomponents.scheme = matches[1];\n\t\t\t\tcomponents.userInfo = matches[3];\n\t\t\t\tcomponents.host
= matches[4];\n\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6] ||
"";\n\t\t\t\tcomponents.query = matches[7];\n\t\t\t\tcomponents.fragment = matches[8];\n\t\t\t\t//fix port
number\n\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\tcomponents.port = matches[5];\n\t\t\t\t\t}\n\t\t\t\t} else { //IE FIX for
improper RegExp matching\n\t\t\t\t//store
each component\n\t\t\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\t\t\tcomponents.userInfo =
(uriString.indexOf("@") !== -1 ? matches[3] : undefined);\n\t\t\t\t\tcomponents.host = (uriString.indexOf("/") !== -
1 ? matches[4] : undefined);\n\t\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\t\tcomponents.path = matches[6]
|| "";\n\t\t\t\t\tcomponents.query = (uriString.indexOf("?") !== -1 ? matches[7] :
undefined);\n\t\t\t\t\tcomponents.fragment = (uriString.indexOf("#") !== -1 ? matches[8] : undefined);\n\t\t\t\t\t//fix
port number\n\t\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\t\tcomponents.port =
(uriString.match(/\\V\\(?:\\.\\|\\?|\\?\\|\\$)/ ? matches[4] : undefined);\n\t\t\t\t\t}\n\t\t\t\t\t\n\t\t\t\t\tif (components.host)
{\n\t\t\t\t\t\t//normalize IP hosts\n\t\t\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t\t\t\t}\n\t\t\t\t\t\n\t\t\t\t\t//determine reference type\n\t\t\t\t\tif (components.scheme === undefined &&
components.userInfo === undefined && components.host
=== undefined && components.port === undefined && !components.path && components.query === undefined)
{\n\t\t\t\t\t\tcomponents.reference = "same-document";\n\t\t\t\t\t}\n\t\t\t\t\telse if (components.scheme === undefined)
{\n\t\t\t\t\t\tcomponents.reference = "relative";\n\t\t\t\t\t}\n\t\t\t\t\telse if (components.fragment === undefined)
{\n\t\t\t\t\t\tcomponents.reference = "absolute";\n\t\t\t\t\t}\n\t\t\t\t\telse {\n\t\t\t\t\t\tcomponents.reference = "uri";\n\t\t\t\t\t}\n\t\t\t\t\t\n\t\t\t\t\t//check
for reference errors\n\t\t\t\t\tif (options.reference && options.reference !== "suffix" && options.reference !==
components.reference) {\n\t\t\t\t\t\tcomponents.error = components.error || "URI is not a " + options.reference + "
reference.";\n\t\t\t\t\t}\n\t\t\t\t\t\n\t\t\t\t\t//find scheme handler\n\t\t\t\t\tconst schemeHandler = SCHEMES[(options.scheme ||
components.scheme || "").toLowerCase()];\n\t\t\t\t\t\n\t\t\t\t\t//check if scheme can't handle IRIs\n\t\t\t\t\tif
(!options.unicodeSupport && (!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t\t\t\t//if host component is a
domain name\n\t\t\t\t\t\tif (components.host &&
(options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t\t\t\t//convert Unicode IDN ->
ASCII IDN\n\t\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\tcatch (e) {\n\t\t\t\t\t\t\t\tcomponents.error = components.error || "Host's domain name can not be converted to ASCII via
punycode: " + e;\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t//convert IRI -> URI\n\t\t\t\t\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t\t\t\t\t}\n\t\t\t\t\t\telse {\n\t\t\t\t\t\t\t//normalize encodings\n\t\t\t\t\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t\t\t\t\t}\n\t\t\t\t\t\t\n\t\t\t\t\t\t//perform scheme specific parsing\n\t\t\t\t\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\t\t\t\t\tcomponents.schemeHandler.parse(components, options);\n\t\t\t\t\t\t}\n\t\t\t\t\t\t}\n\t\t\t\t\t\telse {\n\t\t\t\t\t\t\tcomponents.error = components.error ||
"URI can not be parsed.";\n\t\t\t\t\t\t}\n\t\t\t\t\t\t\n\t\t\t\t\t\treturn components;\n\t\t\t\t\t}\n\t\t\t\t\t\n\t\t\t\t\tfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\t\t\t\t\t\tconst protocol =
(options.iri
!<\/pre>

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IPv6\n\turiTokens.push(_normalizeIPv6(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => `[` + $1 + ($2 ? `:%25` + $2 : ``) + `]`));\n\t}\n\n\tif
(typeof components.port === `number`)
{\n\t\turiTokens.push(`:`);\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ?
uriTokens.join(``) : undefined;\n};\n\nconst RDS1 = /^[\\.:?\\/]/;\nconst RDS2 = /^[\\:\\\\](\\\\|$)/;\nconst RDS3 =
/[\\:\\\\](\\\\|$)/;\nconst RDS4 = /^[\\.\\.:$]/;\nconst RDS5 = /^[\\/:?:(\\.|\\n)*?(?=\\\\|$)/;\n\nexport function
removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile
(input.length) {\n\t\tif (input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, ``);\n\t\t} else if
(input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2, `/`);\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput =
input.replace(RDS3, `/`);\n\t\t\toutput.pop();\n\t\t} else if (input === `.` || input === `..`) {\n\t\t\tinput =
``;\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput =
input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(`Unexpected dot segment
condition`);\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(``);\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?
IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst
schemeHandler = SCHEMES[(options.scheme || components.scheme || ``).toLowerCase()];\n\n\t//perform scheme
specific serialization\n\tif
(schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\t(components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif
(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC
5952\n\t\t\t//if host component is a domain name\n\t\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
punycode.toUnicode(components.host));\n\t\t\t\t} catch (e) {\n\t\t\t\t\tcomponents.error = components.error || `Host's
domain name can not be converted to ` + (!options.iri ? `ASCII` : `Unicode`) + ` via punycode: ` +
e;\n\t\t\t\t}\n\t\t\t\t//normalize encoding\n\t\t\t\t_normalizeComponentEncoding(components, protocol);\n\t\t\t\tif
(options.reference !== `suffix`) && components.scheme)
\n\t\t\t\turiTokens.push(components.scheme);\n\t\t\t\turiTokens.push(`:`);\n\t\t}\n\n\t\tconst
authority = _recomposeAuthority(components, options);\n\t\tif (authority !== undefined) {\n\t\t\tif (options.reference
!== `suffix`) {\n\t\t\t\turiTokens.push(`/`);\n\t\t\t\turiTokens.push(authority);\n\t\t\t\tif (components.path &&
components.path.charAt(0) !== `/`) {\n\t\t\t\t\turiTokens.push(`/`);\n\t\t\t\t}\n\t\t\t\tif (components.path !==
undefined) {\n\t\t\t\t\tlet s = components.path;\n\t\t\t\t\tif (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {\n\t\t\t\t\t\ts = removeDotSegments(s);\n\t\t\t\t\t}\n\t\t\t\t\tif (authority === undefined)
\n\t\t\t\t\tts = s.replace(/^[\\:\\\\]/, `%2F`);
\n\t\t\t\t\t//don't allow the path to start with
`/`/\n\t\t\t\t\turiTokens.push(s);\n\t\t\t\t}\n\t\t\t\tif (components.query !== undefined)
\n\t\t\t\turiTokens.push(`?`);\n\t\t\t\turiTokens.push(components.query);\n\t\t\t}\n\n\t\t\tif (components.fragment !==
undefined) {\n\t\t\t\turiTokens.push(`#`);\n\t\t\t\turiTokens.push(components.fragment);\n\t\t\t}\n\n\t\t\treturn
uriTokens.join(``);
\n\t\t//merge tokens into a string\n\t}\n\n\texport function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst
target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options);
\n\t\t//normalize base components\n\t\trelative = parse(serialize(relative, options), options);
\n\t\t//normalize relative
components\n\t\ttoptions = options || {};\n\t\tif (!options.tolerant && relative.scheme) {\n\t\t\ttarget.scheme =
relative.scheme;\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host =
relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path ||
``);\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t\t\ttarget.authority = relative.authority;\n\t\t\t\ttarget.userinfo
= relative.userinfo;\n\t\t\t\ttarget.host = relative.host;\n\t\t\t\ttarget.port = relative.port;\n\t\t\t\ttarget.path =
removeDotSegments(relative.path || ``);\n\t\t\t\ttarget.query = relative.query;\n\t\t\t} else {\n\t\t\t\tif (!relative.path)
```



[illegible]

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{\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything
up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t\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}\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\t\tconst output = [];\n\t\tlet counter = 0;\n\t\tconst length = string.length;\n\t\twhile
(counter < length) {\n\t\t\tconst value = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <=
0xDBFF && counter < length) {\n\t\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low
surrogate.\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t} else {\n\t\t\t\t\t// It's an
unmatched surrogate; only append this code unit, in case the\n\t\t\t\t\t// next code unit is the high surrogate of a
surrogate pair.\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t}\n\t\t\telse {\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n}\n\n/**\n * Creates a string based on an array of
numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n *
@param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string
(UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point
into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst
basicToDigit = function(codePoint) {\n\t\tif (codePoint - 0x30 < 0x0A) {\n\t\t\treturn codePoint - 0x16;\n\t\t}\n\t\tif
(codePoint - 0x41 < 0x1A) {\n\t\t\treturn codePoint - 0x41;\n\t\t}\n\t\tif
(codePoint - 0x61 < 0x1A) {\n\t\t\treturn codePoint - 0x61;\n\t\t}\n\t\treturn base;\n}\n\n/**\n * Converts a
digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The
numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n *
representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the
uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and
`digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or
A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n}\n\n/**\n * Bias
adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n *
@param {Number} delta\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\t\tlet k = 0;\n\t\tconst
delta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tconst delta += floor(delta / numPoints);\n\t\tconst for (* no initialization */;\n\t\tconst delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tconst delta = floor(delta / baseMinusTMin);\n\t\t\tconst return floor(k
+ (baseMinusTMin + 1) * delta / (delta + skew));\n\t\t}\n\n\t\t/**\n * Converts a Punycode string of ASCII-only symbols
to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of
ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode =
function(input) {\n\t\t// Don't use UCS-2.\n\t\tconst output = [];\n\t\tconst inputLength = input.length;\n\t\tlet i = 0;\n\t\tlet N =
initialN;\n\t\tlet bias = initialBias;\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t//
points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to the output.\n\t\tlet basic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tconst basic
= 0;\n\t\t}\n\t\tfor (let j = 0; j < basic; ++j) {\n\t\t\t// if it's not a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\tconst error('not-basic');\n\t\t\t}\n\t\t\tconst output.push(input.charCodeAt(j));\n\t\t}\n\t\t// Main decoding loop: start just after
the last delimiter if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\t\tfor (let index =
basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\t\t\tconst `index` is the index of the next
character to be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to

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i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the
end to obtain `delta`\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\t\t\tif (index >=
inputLength) {\n\t\t\t\tthrow('invalid-input');\n\t\t\t}\n\t\t\tconst digit =
basicToDigit(input.charCodeAt(index++));\n\t\t\tif
(digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\tti += digit * w;\n\t\t\tconst t
= k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tconst
baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ttw *=
baseMinusT;\n\t\t\tconst out = output.length + 1;\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t// `i` was
supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\tif (floor(i /
out) > maxInt - n) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ttn += floor(i / out);\n\t\t\tti %= out;\n\t\t\t// Insert `n` at
position `i` of the output.\n\t\t\toutput.splice(i++, 0, n);\n\t\t\t}\n\t\t\treturn
String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n
 * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of
ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\t// Convert the input in UCS-2
to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\t// Cache the length.\n\tlet inputLength =
input.length;\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\t// Handle the
basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80)
{\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\tlet basicLength = output.length;\n\tlet
handledCPCount = basicLength;\n\t// `handledCPCount` is the number of code points that have been handled;\n\t//
`basicLength` is the number of basic code points.\n\t// Finish the basic string with a delimiter unless it's
empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\t// Main encoding loop:\n\twhile
(handledCPCount < inputLength) {\n\t\t// All non-basic code points < n have been handled already. Find the
next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n &&
currentValue < m) {\n\t\t\t\ttm = currentValue;\n\t\t\t}\n\t\t}\n\t\t// Increase `delta` enough to advance the decoder's
<n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount +
1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\tthrow('overflow');\n\t\t}\n\t\tdelta +=
(m - n) * handledCPCountPlusOne;\n\t\ttn = m;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n
&& ++delta > maxInt) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a
generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base)
{\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax
? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst
baseMinusT = base - t;\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t + qMinusT %
baseMinusT, 0)));\n\t\t\t\t\ttq = floor(qMinusT /
baseMinusT);\n\t\t\t\t}\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\tbias = adapt(delta,
handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta =
0;\n\t\t\t\tt += handledCPCount;\n\t\t\t}\n\t\t}\n\t\tt += delta;\n\t\tt += n;\n\t}\n\treturn output.join('');\n};\n\n/**\n *
Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycode
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycode domain name or
email address to\n * convert to Unicode.\n * @returns {String} The
Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn
mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t?
decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n};\n\n/**\n * Converts a Unicode string representing a
domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be
converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf
punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n *
@return {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst

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[illegible]

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IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join("\|")), \n\tZONEID$ = subexp(subexp(UNRESERVED$$ + \| + PCT_ENCODED$) +
\|+"), //RFC 6874\n\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \|%%25" + ZONEID$), //RFC
6874\n\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\|%%25\\%(?!\" + HEXDIG$$ +
\">{2})\")) + ZONEID$), //RFC 6874, with relaxed
parsing rules\n\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \|+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIM$$, \"[\:\\:]\" + \|+\")), \n\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\|\" + IPV6ADDRESS$ + \|\" + IPVFUTURE$) + \"\\\\]\"), //RFC 6874\n\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \|\" + merge(UNRESERVED$$, SUB_DELIM$$)) + \|*\"), \n\tHOST$ =
subexp(IP_LITERAL$ + \|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \|\" +
REG_NAME$), \n\tPORT$ = subexp(DIGIT$ + \|*\"), \n\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \|?\" + HOST$ + subexp(\"\\\\:(\" + PORT$) + \|?\")), \n\tPCHAR$ = subexp(PCT_ENCODED$ + \|\" +
merge(UNRESERVED$$, SUB_DELIM$$, \"[\:\\:@]\")), \n\tSEGMENT$ = subexp(PCHAR$ +
\|*\"), \n\tSEGMENT_NZ$ = subexp(PCHAR$ + \|+\"), \n\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \|\" + merge(UNRESERVED$$, SUB_DELIM$$, \"[\:\\:@]\")) +
\|+\"), \n\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\\" + SEGMENT$) + \|*\"), \n\tPATH_ABSOLUTE$
= subexp(\"\\\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \|?\"),
//simplified\n\tPATH_NOScheme$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\tPATH_EMPTY$ = \"(?!\" + PCHAR$ + \")\", \n\tPATH$ = subexp(PATH_ABEMPTY$ + \|\" +
PATH_ABSOLUTE$ + \|\" + PATH_NOScheme$ + \|\" + PATH_ROOTLESS$ + \|\" +
PATH_EMPTY$), \n\tQUERY$ = subexp(subexp(PCHAR$ + \|\" + merge(\"[\:\\/?]\", IPRIVATE$)) +
\|*\"), \n\tFRAGMENT$ = subexp(subexp(PCHAR$ + \|[\:\\/?]\" + \|*\"), \n\tHIER_PART$ =
subexp(subexp(\"\\\\\\\\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \|\" + PATH_ABSOLUTE$ + \|\" +
PATH_ROOTLESS$ + \|\" + PATH_EMPTY$), \n\tURI$ = subexp(SCHEME$ + \|:::\" + HIER_PART$ +
subexp(\"\\\\?\" + QUERY$) + \|?\") + subexp(\"\\\\#\" + FRAGMENT$) + \|?\"), \n\tRELATIVE_PART$ =
subexp(subexp(\"\\\\\\\\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \|\" + PATH_ABSOLUTE$ + \|\" +
PATH_NOScheme$ + \|\" + PATH_EMPTY$), \n\tRELATIVE$
= subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \|?\") + subexp(\"\\\\#\" + FRAGMENT$) +
\|?\"), \n\tURI_REFERENCE$ = subexp(URI$ + \|\" + RELATIVE$), \n\tABSOLUTE_URI$ =
subexp(SCHEME$ + \|:::\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \|?\"), \n\n\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:(\" + subexp(subexp(\"\\\\\\\\\\\\\" + subexp(\"(\" + USERINFO$ + \")@\") + \|?(\" +
HOST$ + \"))\" + subexp(\"\\\\:(\" + PORT$ + \"))\" + \|?\")\" + \|?(\" + PATH_ABEMPTY$ + \|\" +
PATH_ABSOLUTE$ + \|\" + PATH_ROOTLESS$ + \|\" + PATH_EMPTY$ + \"))\" + subexp(\"\\\\?\" +
QUERY$ + \"))\" + \|?\") + subexp(\"\\\\#(\" + FRAGMENT$ + \"))\" + \|?$\", \n\tRELATIVE_REF$ = \"^(){}\" +
subexp(subexp(\"\\\\\\\\\\\\\" + subexp(\"(\" + USERINFO$ + \")@\") + \|?(\" + HOST$ + \"))\" + subexp(\"\\\\:(\" +
PORT$ + \"))\" + \|?\")\" + \|?(\" + PATH_ABEMPTY$ + \|\" + PATH_ABSOLUTE$ + \|\" +
PATH_ROOTLESS$ + \|\" + PATH_EMPTY$ + \"))\" + subexp(\"\\\\?\" + QUERY$ + \"))\" + \|?\")
+ subexp(\"\\\\#(\" + FRAGMENT$ + \"))\" + \|?$\", \n\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:(\" +
subexp(subexp(\"\\\\\\\\\\\\\" + subexp(\"(\" + USERINFO$ + \")@\") + \|?(\" + HOST$ + \"))\" + subexp(\"\\\\:(\" +
PORT$ + \"))\" + \|?\")\" + \|?(\" + PATH_ABEMPTY$ + \|\" + PATH_ABSOLUTE$ + \|\" +
PATH_ROOTLESS$ + \|\" + PATH_EMPTY$ + \"))\" + subexp(\"\\\\?\" + QUERY$ + \"))\" +
\|?$\", \n\tSAME_DOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \"))\" +
\|?$\", \n\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \|?(\" + HOST$ + \"))\" +
subexp(\"\\\\:(\" + PORT$ + \"))\" + \|?$\";
\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"^[^]\",
ALPHA$, DIGIT$, \"[\:\\:\\-\\.\\.]\"), 'g'), \n\t\tNOT_USERINFO : new RegExp(merge(\"^[\\:\\%\\:\\:]\",
UNRESERVED$, SUB_DELIM$$, 'g')), \n\t\tNOT_HOST : new RegExp(merge(\"^[\\:\\%\\:\\:\\:\\:]\",
UNRESERVED$, SUB_DELIM$$, 'g')), \n\t\tNOT_PATH : new RegExp(merge(\"^[\\:\\%\\:\\:\\:\\:\\:]\",
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UNRESERVED$$, SUB_DELIMSS$),
 \"g\\\"),\\n\\t\\tNOT_PATH_NOScheme : new RegExp(merge(\"[\\\\\\\\\\\\\\\\%\\\\\\\\\\\\\\\\@]\", UNRESERVED$$,
SUB_DELIMSS$), \"g\\\"),\\n\\t\\tNOT_QUERY : new RegExp(merge(\"[\\\\\\\\\\\\\\\\%]\", UNRESERVED$$,
SUB_DELIMSS$, \"[\\\\\\\\\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\?]\", IPRIVATE$$), \"g\\\"),\\n\\t\\tNOT_FRAGMENT : new
RegExp(merge(\"[\\\\\\\\\\\\\\\\%]\", UNRESERVED$$, SUB_DELIMSS$, \"[\\\\\\\\\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\?]\"), \"g\\\"),\\n\\t\\tESCAPE :
new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMSS$), \"g\\\"),\\n\\t\\tUNRESERVED : new
RegExp(UNRESERVED$$, \"g\\\"),\\n\\t\\tOTHER_CHARS : new RegExp(merge(\"[\\\\\\\\\\\\\\\\%]\", UNRESERVED$$,
RESERVED$$), \"g\\\"),\\n\\t\\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\\\"),\\n\\t\\tIPV4ADDRESS : new
RegExp(\"^(\" + IPV4ADDRESS$ + \")$\\\"),\\n\\t\\tIPV6ADDRESS : new RegExp(\"^\\\\\\\\\\\\\\\\[(?\" + IPV6ADDRESS$ +
\")\" + subexp(subexp(\"\\\\\\\\\\\\\\\\%25\\\\\\\\\\\\\\\\%(?!\" + HEXDIG$$ + \"{2}\\\")\" + \"(\" + ZONEID$ + \")\" + \"?\\\\\\\\\\\\\\\\]?$\\\"))
//RFC 6874, with relaxed parsing rules\\n\\t};\\n\\n\\nexport default buildExps(false);\\n\",\"export function
merge(...sets:Array<string>):string
{\\n\\tif (sets.length > 1) {\\n\\t\\tsets[0] = sets[0].slice(0, -1);\\n\\t\\tconst xl = sets.length - 1;\\n\\t\\tfor (let x = 1; x < xl;
++x) {\\n\\t\\t\\tsets[x] = sets[x].slice(1, -1);\\n\\t\\t\\t\\n\\t\\tsets[xl] = sets[xl].slice(1);\\n\\t\\treturn sets.join(\"\\n\\t\\t\\telse
{\\n\\t\\treturn sets[0];\\n\\t\\t\\n\\n\\nexport function subexp(str:string):string {\\n\\treturn \"(?:\" + str + \")\";\\n\\n\\nexport
function typeOf(o:any):string {\\n\\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" :
Object.prototype.toString.call(o).split(\" \").pop().split(\"\\\").shift().toLowerCase());\\n\\n\\nexport function
toUpperCase(str:string):string {\\n\\treturn str.toUpperCase();\\n\\n\\nexport function toArray(obj:any):Array<any>
{\\n\\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\\n\\n\\nexport function
assign(target: object, source: any): any {\\n\\tconst obj = target as
any;\\n\\tif (source) {\\n\\t\\tfor (const key in source) {\\n\\t\\t\\tobj[key] = source[key];\\n\\t\\t\\t\\n\\t\\t\\n\\treturn
obj;\\n\\t}\\n\\t},names:[\"SCHEMES\",\"uuid\",\"scheme\",\"urn\",\"mailto\",\"https\",\"http\",\"urnComponents\",\"nss\",\"uuidComp
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BSD-2-Clause  
No license file was found, but licenses were detected in source scan.

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SAAGpK,EAAG0BwD,SAAGtCxD,GAAGW,SACJ7C,MAAGKc,EAAGWIC,OAAS,+BAGjCkC,aAGI,SAAGUA,EAAG  
0BwD,SAE3CxD,GAAGW+D,QAASD,UAAG5CpE,OAAGOK,EAAGWM,QAAGQ1E,cAA4B,GAAG,MAAG4B,KAApBo

E,EAaW+D,SAC3FA,KAAO3I,WAlD4E,EAaWa,SACJA,KAAO,KAOZb,IC5BHOk,WACI,mBACIC,GAaKhG,iBACVgG,GAaK/G,gBACD+G,GAaK9E,WHsz+E,MAIA5M,GAaE,mGACfnB,GAaW,cACXC,GAaExB,EAaOA,EAaO,sBAA6BuB,GAaWA,GAaW,IAaMA,GAaWA,IAaY,IAaMvB,EAaO,0BAAiCuB,GAaWA,IAaY,IAaMvB,EAaO,IAaMuB,GAaWA,KAehNgO,GAaUlQ,EAaDA,6DACE,aAqBzBgG,GAaA,GAaI1C,QAAOD,GAAc,KACtC6C,GAaC,GAaI5C,QAAOnB,GAaC,KACvCgO,GAaIB,GAaI7M,QAAOtD,EAaM,MAzBxB,wDAyBwC,QAAS,QAASkQ,IAaU,KAe9EE,GAaA,GAaI9M,QAAOtD,EAaM,MAAOqD,GAjBrB,uCAiBmD,KACnEgN,GAaCd,GASdL,WACI,eAED,SAAUpK,EAa0BwD,MACrCmH,GAaMB3K,EACnB4K,EAaKD,EAaIBc,GAaMD,EAaIB9J,KAAO8J,EAaIB9J,KAAKpF,MAaM,aACrEoF,KAAOzF,UAEPBuP,EAaIB3J,MAAO,KAKtB,GAJD6J,IAaIB,EACfC,KACAC,EAaUJ,EAaIB3J,MAaMvF,MAaM,KAEPcX,EAaI,EAAGD,EAaKkQ,EAaQpQ,OAAQG,EAaID,IAaMC,EAAG,IAC3CkQ,GAASD,EAaQjQ,GAAGW,MAaM,YAExBuP,EAaO,QACT,SAEC,GADCC,GAaUD,EAaO,GAAGvP,MAaM,KACvBX,EAaI,EAAGD,EAaKoQ,EAaQtQ,OAAQG,EAaID,IAaMC,IAC3CmE,KAAKGM,EAaQnQ,cAGb,YACaoQ,QAAUrE,EAaKbME,EAaO,GAaIxH,aAEPd,SACa2H,KAAOE,EAaKbME,EAaO,GAaIxH,oBAGpC,IACtQD,EAaKbME,EAaO,GAaIxH,IAaYqD,EAaKbME,EAaO,GAaIxH,IAK7EqH,IAAgBF,EAaIBG,QAAUA,KAG/B9J,MAAQ5F,cAEPB,GAaIN,GAaI,EAAGD,EAaK+P,EAAGjQ,OAAQG,EAaID,IAaMC,EAAG,IACtCsQ,GAaOR,EAAG9P,GAAGW,MAaM,UAEPB,GAaKoL,EAaKbUE,EAaK,IAE5B5H,EAaQY,iBAQP,GAaKyC,EAaKbUE,EAaK,GAaI5H,GAAS5H,yBALxC,GAaK0I,EAaSC,QAAQsC,EAaKbUE,EAaK,GAaI5H,GAAS5H,eAC9D,MAAO4I,KACS1G,MAAQ6M,EAaIB7M,OAAAS,2EAa6E0G,IAM/H1J,GAaKsQ,EAaKrQ,KAAK,WAGZ4P,cAGI,SAAUA,EAaMcnH,MACIDxD,GAaA2K,EACbC,EAaK9O,EAaQ6O,EAaIBc,OACChCA,EAaI,KACF,GAaI9P,GAaI,EAAGD,EAaK+P,EAAGjQ,OAAQG,EAaID,IAaMC,EAAG,IACtCuQ,GAAS1L,OAAOI,EAAG9P,IACnBwQ,EAaQD,EAaOpF,YAAAY,KAC3BsF,EAaAF,EAaOzQ,MAaM,EAAG0Q,GAaQ7M,QAAQ8B,GAaAL,GAaKbZB,QAAQ8B,GAaA1E,GAaA4C,QAaQ+L,GAaGBtL,GACxIsM,EAaSH,EAaOzQ,MAaM0Q,EAaQ,SAItB9H,EAaQC,IAA2Ea,EAaSKB,UAAUGG,GAaXFIH,EAaSC,QAAQsC,EAaKb2E,EAaQhI,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAaWIC,OAAAS,wDAA2D0F,EAaQC,IAAgB,UAAV,SAAuB,kBAAoBe,IAGzJ1J,GAaKyQ,EAaY,IAaMC,IAGhB3K,KAAO+J,EAAG7P,KAAK,QAGrB+P,GAaUH,EAaIBG,QAAUH,EAaIBG,WAExDH,GAaIBO,UAASJ,EAaA,QAaQBH,EAaIBO,SACHep,EAaIBQ,OAaML,EAaA,KAAKBH,EAaIBQ,SAExD3I,UACD,GAaMIJ,KAAQX,GAaCdA,EAaQW,KAAUnB,GAaEmB,MAChBxM,KACnWm,EAaKhN,QAAQ8B,GAaAL,GAaKbZB,QAAQ8B,GAaA1E,GAaA4C,QAAQgM,GAaYvL,GACIG,IACA4L,EAaQW,GAaMhN,QAAQ8B,GAaAL,GAaKbZB,QAAQ8B,GAaA1E,GAaA4C,QAAQiM,GAaaxL,UAI3GsD,GAaO7H,WACCqG,MAAQwB,EAaOZH,KAAK,MAGzBiF,II/JH0L,GAaY,kBAIZtB,WACI,YAED,SAAUpK,EAa0BwD,MACrCIC,GAaUtB,EAaWa,MAAQb,EAaWa,KAAKT,MAaMsL,IACrDC,EAaGB3L,KAehBsB,EAAS,IACNhB,GAaSKD,EAaQID,QAAUqL,EAaCrL,QAAU,MACnDsL,EAaMIK,EAaQ,GAAG1F,cACjBiQ,EAaMvK,EAaQ,GACdWk,EAaExL,EAaf,KAAyBkD,EAaQoI,KAAOA,GACxC1H,EAaGBC,EAaQ2H,KAehBF,IAaMA,IACNC,IAaMA,IACNhL,KAAOzF,UAejB8I,MACaA,EAaCZ,MAaMqI,EAaEnI,WAGtC1F,MAAQ6N,EAaC7N,OAAAS,+BAGvC6N,cAGI,SAAUA,EAa6BnI,MAC5CID,GAaSKD,EAaQID,QAAUqL,EAaCrL,QAAU,MACnDsL,EAaMD,EAaCC,IACpBE,EAaExL,EAaf,KAAyBkD,EAaQoI,KAAOA,GACxC1H,EAaGBC,EAaQ2H,EAe1B5H,OACaA,EAaCqB,UAAUoG,EAaEnI,OAGIDuI,GAaGBJ,EACbBE,EAaMF,EAaCE,aACZhL,MAAU+K,GAaOpI,EAaQoI,KAAvC,IAA8CC,EAeVCE,ICxDHC,GAaO,2DAIP5B,WACI,iBAED,SAAUuB,EAa6BnI,MACxCyI,GAaIBN,WACRO,KAAOD,EAaEJ,MACtBA,IAaMzQ,UAehBoI,EAaQwC,UAAciG,EAaEC,MAASD,EAaEC,KAAK9L,MAaM4L,QAC7DIO,MAAQmO,EAaEnO,OAAAS,sBAGzCmO,aAGI,SAAUA,EAa+BzI,MAC9CmI,GAaGBM,WAERJ,KAAOI,EAaEC,MAAQ,IAAItQ,cACzC+P,GC5BTxH,GAaQkG,GAaK/J,QAAU+J,GAeVBiG,EACQgI,GAaM7L,QAAU6L,GAExBhI,EACQiI,GAaO9L,QAAU8L,GAeZBjI,EACQkI,GAaI/L,QAAU+L,GAeIBI,EACQ+H,GAaK5L,QAAU4L","file":"dist/es5/uri.all.min.js","sourcesContent":["export function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\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\t\tsets[x] = sets[x].slice(1, -1);\n\t\t\t\t\tsets[xl] = sets[xl].slice(1);\n\t\t\t\t\treturn sets.join("");\n\t\t\t}\n\t\t} else {\n\t\t\treturn sets[0];\n\t\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\"

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 .pop().split('').shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn
str.toUpperCase();\n}\n\n\nexport function toArray(obj:any):Array<any>

\n{\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)
\n\t\t{obj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}", "import { URIRegExps } from \"/uri";\nimport {
merge, subexp } from \"/util";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst ALPHA$$
= "[A-Za-z]",\n\t\tCR$ = "\\x0D",\n\t\tDIGIT$$ = "[0-9]",\n\t\tDQUOTE$ = "\\x22",\n\t\tHEXDIG$$ =
merge(DIGIT$, "[A-Fa-f]"), //case-insensitive\n\t\tLF$ = "\\x0A",\n\t\tSP$ =
"\n",\n\t\tPCT_ENCODED$ = subexp(subexp("%[EFef]" + HEXDIG$ + "%" + HEXDIG$ +
HEXDIG$ + "%" + HEXDIG$ + HEXDIG$) + "|" + subexp("%[89A-Fa-f]" + HEXDIG$ + "%" +
HEXDIG$ + HEXDIG$) + "|") + subexp("%"
+ HEXDIG$ + HEXDIG$)), //expanded\n\t\tGEN_DELIMS$ =
"[!#$%&'()*+,-./:;
@][\\x00-\\x08\\x0B\\x0C\\x0E-\\x1F\\x20\\x22\\x28\\x29\\x2C\\x2F\\x30-\\x39\\x40-\\x5B\\x5D-\\x7F\\x80-\\xA0\\xA1\\xA3\\xA4\\xA6\\xA7\\xA9\\xAA\\xAB\\xAD\\xAE\\xAF\\xB1\\xB2\\xB4\\xB6\\xB7\\xB9\\xBA\\xBB\\xBC\\xBE\\xBF\\xC0-\\xC2\\xC4-\\xC5\\xC7-\\xC9\\xCA\\xCB\\xCD\\xCE\\xCF\\xD0-\\xD2\\xD4-\\xD6\\xD8-\\xDA\\xDB\\xDC\\xDE\\xDF-\\xE0\\xE2\\xE4-\\xE7\\xEA-\\xEB\\xEC\\xED\\xEE\\xEF\\xF0-\\xF7\\xFA-\\xFB\\xFC\\xFE\\xFF]";\n\t\tRESERVED$ = merge(GEN_DELIMS$,
SUB_DELIMS$),\n\t\tUCSCHAR$ = isIRI ? "[\\xA0-\\uD00D\\uD010-\\uD029\\uD02F-\\xD7FF\\xD800-\\xDFFF\\xE000-\\xFEFF]" : "", //subset,
excludes bidi control
characters\n\t\tPRIVATE$ = isIRI ? "[\\xE000-\\xF8FF]" : "", //subset\n\t\tUNRESERVED$ =
merge(ALPHA$, DIGIT$, "[!-._~]", UCSCHAR$),\n\t\tSCHEME$ = subexp(ALPHA$ +
merge(ALPHA$, DIGIT$, "[!-._~-]") + "*"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
"|") + merge(UNRESERVED$, SUB_DELIMS$, "[!:]")) + "*",\n\t\tDEC_OCTET$ =
subexp(subexp("25[0-5]" + "|" + subexp("2[0-4]" + DIGIT$) + "|" + subexp("1" + DIGIT$ + DIGIT$) +
|" + subexp("1-9]" + DIGIT$) + "|" + DIGIT$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp("25[0-
5]" +
| + subexp("2[0-4]" + DIGIT$) + "|" + subexp("1" + DIGIT$ + DIGIT$) + "|" + subexp("0?[1-9]" +
DIGIT$) + "|0?0?" + DIGIT$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + "." + DEC_OCTET_RELAXED$ + "." + DEC_OCTET_RELAXED$ +
DEC_OCTET_RELAXED$ + "." + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$ +
"{1,4}"),\n\t\tLS32$ = subexp(subexp(H16$ + "." + H16$) + "|" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(
subexp(H16$ + "." + H16$) + "{6}" + LS32$), // 6(
h16 ":") ls32\n\t\tIPV6ADDRESS2$ = subexp(
":" + subexp(H16$ + "." + H16$) + "{5}" + LS32$), //
":" 5(h16 ":") ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
H16$ + "?:::" + subexp(H16$ + "." + H16$) + "{4}" + LS32$), //[h16] ":"
4(h16 ":") ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + ":" + H16$) +
"?:::" + subexp(H16$ + ":" + H16$) + "{3}" + LS32$), //[*1(h16 ":") h16] ":" 3(h16 ":")
ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + ":" + H16$) + "?:::" +
subexp(H16$ + ":" + H16$) + "{2}" + LS32$), //[*2(h16 ":") h16] ":" 2(h16 ":") ls32\n\t\tIPV6ADDRESS6$
= subexp(subexp(subexp(H16$ + ":" + H16$) + "?:::" + H16$ + ":" + LS32$),
/[*3(h16 ":") h16] ":" h16 ":" ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + ":" +
"{0,4}" + H16$) + "?:::" + LS32$), //[*4(h16 ":") h16] ":"
ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + ":" + H16$) + "?:::" +
H16$), /[*5(h16 ":") h16] ":" h16\n\t\tIPV6ADDRESS9$
= subexp(subexp(subexp(H16$ + ":" + H16$) + "{0,6}" + H16$) + "?:::" + LS32$), //[*6(h16
":") h16] ":"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join("|")), \n\t\tZONEID$ = subexp(subexp(UNRESERVED$ + "|" + PCT_ENCODED$) +
"+"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + "%25" + ZONEID$), //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp("%25" + HEXDIG$ +

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\"{2})\" + ZONEID$), //RFC 6874, with relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$
+ \"+/\\\\.\\\\\" + merge(UNRESERVED$$, SUB_DELIM$$, \"[\\\\\\\\:]\" + \"+\\\\\"),\n\t\tIP_LITERAL$ = subexp(\"[\\\\\\\\\\\\\\\\]\"
+ subexp(IPV6ADDRZ_RELAXED$ + \"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"[\\\\\\\\]\"), //RFC
6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$,
SUB_DELIM$$)) +
\"*\"),\n\t\tHOST$ = subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?:\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\" + \"?\" + HOST$ + subexp(\"[\\\\\\\\:]\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIM$$, \"[\\\\\\\\\\\\\\\\@]\"),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIM$$, \"[\\\\\\\\@]\")) +
\"+\\\\\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"[\\\\\\\\\\\\\\\\]\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"[\\\\\\\\\\\\\\\\]\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEMES$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?:\" + PCHAR$ +
\")\", \n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEMES$
+ \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" +
merge(\"[\\\\\\\\\\\\\\\\?]|\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"[\\\\\\\\\\\\\\\\?]|\" +
\"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"[\\\\\\\\\\\\\\\\]\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEMES$ +
\"[\\\\\\\\:]\" + HIER_PART$ + subexp(\"[\\\\\\\\?]|\" + QUERY$) + \"?\" + subexp(\"[\\\\\\\\#]|\" + FRAGMENT$) +
\"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"[\\\\\\\\\\\\\\\\]\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEMES$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVES$ =
subexp(RELATIVE_PART$ + subexp(\"[\\\\\\\\?]|\" + QUERY$) + \"?\" + subexp(\"[\\\\\\\\#]|\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVES$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEMES$ + \"[\\\\\\\\:]\" + HIER_PART$ + subexp(\"[\\\\\\\\?]|\" + QUERY$) + \"?\"),\n\t\tGENERIC_REF$ =
\"^(\" + SCHEMES$ + \")\\\\\\\\:\" + subexp(subexp(\"[\\\\\\\\\\\\\\\\]\"
+ subexp(\"(\" + USERINFO$ + \")@\" + \"?(\" + HOST$ + \")\" + subexp(\"[\\\\\\\\:]\" + PORT$ + \")\" + \")\" +
\"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" +
PATH_EMPTY$ + \")\" + subexp(\"[\\\\\\\\?]|\" + QUERY$ + \")\" + \"?\" + subexp(\"[\\\\\\\\#]|\" + FRAGMENT$ + \")\"
+ \"?$\"),\n\t\tRELATIVE_REF$ = \"^\" + subexp(subexp(\"[\\\\\\\\\\\\\\\\]\" + subexp(\"(\" + USERINFO$ + \")@\"
+ \"?(\" + HOST$ + \")\" + subexp(\"[\\\\\\\\:]\" + PORT$ + \")\" + \")\" + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEMES$ + \"|\" + PATH_EMPTY$ + \")\" + subexp(\"[\\\\\\\\?]|\" +
QUERY$ + \")\" + \"?\" + subexp(\"[\\\\\\\\#]|\" + FRAGMENT$ + \")\" + \"?$\", \n\t\tABSOLUTE_REF$ = \"^\" +
SCHEMES$ + \")\\\\\\\\:\" + subexp(subexp(\"[\\\\\\\\\\\\\\\\]\" + subexp(\"(\" + USERINFO$ + \")@\" + \"?(\" + HOST$ +
\")\" + subexp(\"[\\\\\\\\:]\" + PORT$ + \")\" + \")\" + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\" + subexp(\"[\\\\\\\\?]|\"
+ QUERY$ + \")\" + \"?$\", \n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"[\\\\\\\\#]|\" + FRAGMENT$ + \")\" +
\"?$\", \n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\" + \"?(\" + HOST$ + \")\" +
subexp(\"[\\\\\\\\:]\" + PORT$ + \")\" + \")\" + \"?$\", \n\t\treturn { \n\t\t\tNOT_SCHEME : new RegExp(merge(\"[^\"]\",
ALPHA$$, DIGIT$$, \"[\\\\\\\\+\\\\\\\\-\\\\\\\\.]\"), \"g\"), \n\t\t\tNOT_USERINFO : new RegExp(merge(\"[\\\\\\\\%\\\\\\\\:]\"),
UNRESERVED$$, SUB_DELIM$$), \"g\"), \n\t\t\tNOT_HOST : new RegExp(merge(\"[\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\:]\"),
UNRESERVED$$, SUB_DELIM$$), \"g\"), \n\t\t\tNOT_PATH : new RegExp(merge(\"[\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\:]\"),
UNRESERVED$$, SUB_DELIM$$), \"g\"), \n\t\t\tNOT_PATH_NOSCHEME : new
RegExp(merge(\"[\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\@]\", UNRESERVED$$, SUB_DELIM$$), \"g\"), \n\t\t\tNOT_QUERY : new
RegExp(merge(\"[\\\\\\\\%]\", UNRESERVED$$, SUB_DELIM$$, \"[\\\\\\\\\\\\\\\\@\\\\\\\\\\\\\\\\?]|\", IPRIVATE$$),
\"g\"), \n\t\t\tNOT_FRAGMENT : new RegExp(merge(\"[\\\\\\\\%]\", UNRESERVED$$, SUB_DELIM$$,
\"[\\\\\\\\\\\\\\\\@\\\\\\\\\\\\\\\\?]|\", \"g\"), \n\t\t\tESCAPE

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: new RegExp(merge("[^\\", UNRESERVED$$, SUB_DELIMSS$$, "g\\"), "\\t\\tUNRESERVED : new
RegExp(UNRESERVED$$, "g\\"), "\\t\\tOTHER_CHARS : new RegExp(merge("[^\\\\%]", UNRESERVED$$,
RESERVED$$, "g\\"), "\\t\\tPCT_ENCODED : new RegExp(PCT_ENCODED$, "g\\"), "\\t\\tIPV4ADDRESS : new
RegExp("\\^(\\" + IPV4ADDRESS$ + "\\)$\\"), "\\t\\tIPV6ADDRESS : new RegExp("\\^\\\\[?\\(\\" + IPV6ADDRESS$ +
\\")\\" + subexp(subexp("\\\\\\%25\\\\\\\\%(?!\\" + HEXDIG$$ + "\\{2}\\)") + "\\(\\" + ZONEID$ + "\\)\\") + "\\?\\\\\\\\]?\\$\\")
//RFC 6874, with relaxed parsing rules\\n\\t;\\n\\n\\nexport default buildExps(false);\\n\\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\\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/**\\n * A generic `Array#map` utility function.\\n * @private\\n * @param {Array}
array The array to iterate over.\\n * @param {Function} callback The function that gets called for every
array\\n * item.\\n * @returns {Array} A new array of values returned by the callback function.\\n */\\nfunction
map(array, fn) {\\n\\tconst result = [];\\n\\tlet length = array.length;\\n\\twhile (length--) {\\n\\t\\tresult[length] =
fn(array[length]);\\n\\t}\\n\\treturn result;\\n}\\n\\n\\n/**\\n * A simple `Array#map`-like wrapper to work with domain name
strings or email\\n * addresses.\\n * @private\\n * @param {String} domain The domain name or email address.\\n *
@param {Function} callback The function that gets called for every\\n * character.\\n * @returns {Array} A new
string of characters returned by the callback\\n * function.\\n */\\nfunction mapDomain(string, fn) {\\n\\tconst parts =
string.split('@');\\n\\tlet result = "";\\n\\tif (parts.length > 1) {\\n\\t\\t// In email addresses, only the domain name should be
punycoded. Leave\\n\\t\\t// the local part (i.e. everything up to `@`) intact.\\n\\t\\tresult = parts[0] + '@';\\n\\t\\tstring =
parts[1];\\n\\t}\\n\\t// Avoid `split(regex)` for IE8 compatibility. See #17.\\n\\tstring
= string.replace(regexSeparators, '\\x2E');\\n\\tconst labels = string.split('.');\\n\\tconst encoded = map(labels,
fn).join('.');\\n\\treturn result + encoded;\\n}\\n\\n\\n/**\\n * Creates an array containing the numeric code points of each
Unicode\\n * character in the string. While JavaScript uses UCS-2 internally,\\n * this function will convert a pair of
surrogate halves (each of which\\n * UCS-2 exposes as separate characters) into a single code point,\\n * matching
UTF-16.\\n * @see `punycode.ucs2.encode`\\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\\n *
@memberOf punycode.ucs2\\n * @name decode\\n * @param {String} string The Unicode input string (UCS-2).\\n *
@returns {Array} The new array of code points.\\n */\\nfunction ucs2decode(string) {\\n\\tconst output = [];\\n\\tlet
counter = 0;\\n\\tconst length = string.length;\\n\\twhile (counter < length) {\\n\\t\\tconst value =
string.charCodeAt(counter++);\\n\\t\\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\\n\\t\\t\\t// It's a
high
surrogate, and there is a next character.\\n\\t\\t\\tconst extra = string.charCodeAt(counter++);\\n\\t\\t\\tif ((extra &
0xFC00) == 0xDC00) { // Low surrogate.\\n\\t\\t\\t\\toutput.push((((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000));\\n\\t\\t\\t} else {\\n\\t\\t\\t\\t// It's an unmatched surrogate; only append this code unit, in case the\\n\\t\\t\\t\\t// next
code unit is the high surrogate of a surrogate pair.\\n\\t\\t\\t\\toutput.push(value);\\n\\t\\t\\t\\tcounter--;\\n\\t\\t\\t}\\n\\t\\t} else
{\\n\\t\\t\\toutput.push(value);\\n\\t\\t}\\n\\t}\\n\\treturn output;\\n}\\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/**\\n * Converts a basic code point into a
digit/integer.\\n * @see `digitToBasic`()\\n * @private\\n * @param {Number} codePoint The basic numeric

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code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst
basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif
(codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn
codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see
`basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns
{Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be
in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is
used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n
*/\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII
0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section
3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta,
numPoints, firstTime) {\n\tlet k = 0;\n\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta /
numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta /
baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a
Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n *
@param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of
Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst
output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t//
Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if
there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic =
input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not
a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\tthrow('not-
basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter
if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1
: 0; index < inputLength; /* no final expression */) {\n\t\t// `index` is the index of the next character to be
consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which
gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its
starting\n\t\t// value at the end to obtain `delta`.\n\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k +=
base) {\n\t\t\tif (index >= inputLength) {\n\t\t\t\tthrow('invalid-input');\n\t\t\t}\n\n\t\t\tconst digit =
basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax :
k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt /
baseMinusT)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\n\t\t\tlet tw = baseMinusT;\n\n\t\t\tconst out = output.length +
1;\n\t\t\tlet bias = adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t//
incrementing `n` each time, so we'll fix that now:\n\n\t\t\tif
(floor(i / out) > maxInt - n) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\n\t\t\tlet tn += floor(i / out);\n\t\t\tlet i %= out;\n\n\t\t\t// Insert `n`
at position `i` of the output.\n\n\t\t\toutput.splice(i++, 0, n);\n\t\t}\n\n\t\treturn
String.fromCharCode(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n *
@param {String} input The string of
Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode
= function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code
points.\n\n\tlet input = ucs2decode(input);\n\n\t// Cache the length.\n\n\tlet inputLength = input.length;\n\n\t// Initialize the
state.\n\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\n\tfor (const
currentValue of input) {\n\t\tif (currentValue < 0x80)\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t}\n\n\tlet
basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code
points that have been handled;\n\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string

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with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(unicodeDelimiter);\n\t}\n\n// Main encoding loop:\nwhile (handledCPCount < inputLength) {\n\tAll non-basic code points < n have been handled already.
Find the next larger one:\n\tlet m = maxInt;\n\tfor (const currentValue of input) {\n\t\tif (currentValue >= n && currentValue < m) {\n\t\t\ttm = currentValue;\n\t\t}\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>, but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne))\n\t\t{\n\t\t\tthrow('overflow');\n\t\t}\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\ttn = m;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt)\n\t\t\t{\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? Tmin : (k >= bias + Tmax ? Tmax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base -\nt;\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,\n0));\n\t\t\t\t\ttq = floor(qMinusT /\nbaseMinusT);\n\t\t\t\t}\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));
\nbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
\ndelta = 0;\n\t\t\t++handledCPCount;\n\t\t}\n\t\t+n++;
\nreturn output.join('');\n};
```

\* Converts a Punycode string representing a domain name or an email address  
to Unicode. Only the Punycoded parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.

@memberof punycode @param {String} input The Punycoded domain name or email address to convert to Unicode.  
@returns {String} The Unicode representation of the given Punycoded string.

/nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)? decode(string.slice(4).toLowerCase()): string;\n\t});\n};

\* Converts a Unicode string representing a domain name or an email address to Punycode. Only the non-ASCII parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII.

@memberof punycode @param {String} input The domain name or email address to convert, as a Unicode string.  
@returns {String} The Punycode representation of the given domain name or email address.

/nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexNonASCII.test(string)? 'xn--' + encode(string.toLowerCase()): string;\n\t});\n};

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\* Define the public API

/nconst punycode = {\n\tA string representing the current Punycode.js version number.  
@memberof punycode @type String  
version: '2.1.0',  
  
An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.  
@see <<https://mathiasbynens.be/notes/javascript-encoding>>  
@memberof punycode @type Object  
ucs2: {\n\tdecode: ucs2decode,  
encode: ucs2encode,  
},  
decode: decode,  
encode: encode,  
toASCII: toASCII,  
toUnicode: toUnicode\};

nexport default punycode;

"/\* URI.js An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.

@author <a href="mailto:gary.court@gmail.com">Gary Court</a>

@see http://github.com/garycourt/uri-js

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toUpperCase());\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query
!== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.fragment !== undefined) components.fragment =
String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, "$1") || "0";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\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}\n\t\t\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\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}, []);\n\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\tlet newHost:string;\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\tnewHost = newFirst.join(":") + "::" +
newLast.join(":");\n\t\t} else {\n\t\t\tnewHost = fields.join(":");\n\t\t}\n\t\t\n\t\tif (zone) {\n\t\t\tnewHost += "%" +
zone;\n\t\t}\n\t\t\n\t\treturn newHost;\n\t} else {\n\t\treturn host;\n\t}\n}\n\nconst URI_PARSE =
/^(?:(?:[^\W\d@#]+):)?(?:\/\/(?:?:(?:[^\W\d@#]+)@)?(?:\[[^\W\d@#]+\]|(?:[^\W\d@#]+(?:\.[^\W\d@#]+)*)?/?i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>("").match(/(){})))[1]
=== undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\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} else { //IE FIX for improper RegExp matching\n\t\t\t//store
each component\n\t\t\tcomponents.scheme =
matches[1] || undefined;\n\t\t\tcomponents userinfo = (uriString.indexOf("@") !== -1 ? matches[3] :
undefined);\n\t\t\tcomponents.host = (uriString.indexOf("/") !== -1 ? matches[4] :
undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] ||
"";\n\t\t\tcomponents.query = (uriString.indexOf("?") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf("#") !== -1 ? matches[8] : undefined);\n\t\t\t\n\t\t\t//fix

```

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## A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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



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

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

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# 1.488 openpyxl 2.5.6

## 1.488.1 Available under license :

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Metadata-Version: 1.2

Name: openpyxl

Version: 2.5.6

Summary: A Python library to read/write Excel 2010 xlsx/xlsm files

Home-page: <https://openpyxl.readthedocs.io>

Author: See AUTHORS

Author-email: [charlie.clark@clark-consulting.eu](mailto:charlie.clark@clark-consulting.eu)

License: MIT/Expat

Description: .. image:: <https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default>  
:target: <https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default>  
:alt: coverage status

Introduction

-----

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltm files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

#### Mailing List

-----

The user

list can be found on <http://groups.google.com/group/openpyxl-users>

Sample code::

```
from openpyxl import Workbook
wb = Workbook()

grab the active worksheet
ws = wb.active

Data can be assigned directly to cells
ws['A1'] = 42

Rows can also be appended
ws.append([1, 2, 3])

Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

Save the file
wb.save("sample.xlsx")
```

#### Documentation

-----

The documentation is at: <https://openpyxl.readthedocs.io>

- \* installation methods
- \* code examples
- \* instructions for contributing

Release notes: <https://openpyxl.readthedocs.io/en/stable/changes.html>



Platform: UNKNOWN

Classifier:

Development Status :: 5 - Production/Stable

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

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Python/Jython

## 1.492 sudo 1.9.13p3

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

Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
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Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon,  
Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
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Gailly, Jean-loup  
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Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
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Miller, Todd C.  
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Morris, Charles  
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Ouellet, Jean-Philippe  
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Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
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Peslyak, Alexander  
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Petten, Diego Elio  
Pickett, Joel  
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Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
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Shand, Will  
Sieger, Nick  
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Wetzel, Timm  
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Wilk, Jakub  
Winiger, Gary  
Wood, David  
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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.

Albuquerque, Pedro  
Blttermann, Mario  
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Buo-ren, Lin

Casagrande, Milo  
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Cho, Seong-ho  
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The following people designed the artwork used on the sudo website:

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

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

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

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

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

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

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For the src/lib/apr-util/xml/expat/conftools/install-sh component:

```
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install - install a program, script, or datafile
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```

For the test/zb.c component:

```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:  
Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

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*/
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
 This file is generated from xml source: DO NOT EDIT
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<link href="/.style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/.style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/.style/css/prettify.css" />
<script src="/.style/scripts/prettify.min.js" type="text/javascript">
</script>

<link
href="/images/favicon.ico" rel="shortcut icon" /></head>
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<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"></div>
```

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<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href=".">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>  
<div class="toplang">  
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>  
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</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

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<script type="text/javascript"><!--<!--><![CDATA[</--<!-->

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

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 d.write('<div id="comments_thread"><\div>');
 var s = d.createElement('script');
 s.type = 'text/javascript';
 s.async = true;
 s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;
 (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
 d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\div>');
}
})(window, document);
//--><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.
Licensed under the Apache License, Version 2.0.</p>
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
 prettyPrint();
}
//--><![></script>
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```

Apache HTTP Server

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