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1.13 pycparser 2.19
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pycparser -- A C parser in Python

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1.31 fast-json-stable-stringify 2.0.0

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1.36 pyasn1-modules 0.2.2
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1.39 commander 2.15.1

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1.47 asn1crypto 1.2.0

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1.48 supports-color 2.0.0

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

> Detect whether a terminal supports color

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

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

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

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

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

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1.49 async-each 1.0.1

1.50 babel-helper-function-name 6.24.1

1.51 cffi 1.13.1

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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 Fygovsky <boris.figovsky@ravelosystems.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@elasticsearch.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 <graffiacolmingov@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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

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

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

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `\HTTPResponse.geturl` method to provide `\urlib2.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]

1.54 create-ecdh 4.0.3
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   * Tim Martin
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1.59 websocket-client 0.40.0

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6.24.1

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1.64 backbone-computedfields 0.0.12

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1.65 diffie-hellman 5.0.3

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1.66 syslinux 6.03

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<tr>
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1.72 create-hmac 1.1.7
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1.73 ncurses 6.1-20191019
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1.74 wcwidth 0.1.7

1.74.1 Available under license:

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1.75 babel-plugin-transform-es2015-for-of
6.23.0

1.76 brace-expansion 1.1.11
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1.77 python-docker 2.0.2

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1.78 repeat-string 1.6.1
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1.79 jdcalf 1.4
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1.80 django-auth-ldap 1.7.0
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1.81 is-glob 2.0.1
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1.82 for-in 1.0.2
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1.83 fs-readdir-recursive 1.1.0
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1.84 is-posix-bracket 0.1.1

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1.85 appdirs 1.4.3
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1.86 babel-plugin-transform-es2015-classes
6.24.1

1.87 uri-js 4.2.2
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a,KAAKT,MAAMsL,IACrDC,EAAgB3L,KAEhBsB,EAAS,IACNhB,GAASkD,EAAQlD,QAAUqL,EAAcrL,QAA
U,MACnDsL,EAAMtK,EAAQ,GAAG1F,cACjBiQ,EAAMvK,EAAQ,GACdwK,EAAexL,EAAf,KAAyBkD,EAA
QoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,KAEhBF,IAAMA,IACNC,IAAMA,IACNhL,KAAOzF,UAEjB8I,M
ACaA,EAAcZ,MAAMqI,EAAenI,WAGtC1F,MAAQ6N,EAAc7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAA6BnI,
MAC5ClD,GAASkD,EAAQlD,QAAUqL,EAAcrL,QAAU,MACnDsL,EAAMD,EAAcC,IACpBE,EAAexL,EAAf,
KAAyBkD,EAAQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,EAE1B5H,OACaA,EAAcqB,UAAUoG,EAAenI,O
AGlDuI,GAAgBJ,EAChBE,EAAMF,EAAcE,aACZhL,MAAU+K,GAAOpI,EAAQoI,KAAvC,IAA8CC,EAEvCE,I
CxDHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAiBN,WACRO,KAAOD,EAAeJ,MA
CtBA,IAAMzQ,UAEhBoI,EAAQwC,UAAciG,EAAeC,MAASD,EAAeC,KAAK9L,MAAM4L,QAC7DlO,MAAQ
mO,EAAenO,OAAS,sBAGzCmO,aAGI,SAAUA,EAA+BzI,MAC9CmI,GAAgBM,WAERJ,KAAOI,EAAeC,MAA
Q,IAAItQ,cACzC+P,GC5BTxH,GAAQkG,GAAK/J,QAAU+J,GAEvBlG,EACQgI,GAAM7L,QAAU6L,GAExBhI,
EACQiI,GAAO9L,QAAU8L,GAEzBjI,EACQkI,GAAI/L,QAAU+L,GAEtBlI,EACQ+H,GAAK5L,QAAU4L","file
":"dist/es5/uri.all.min.js","sourcesContent":["export function merge(...sets:Array<string>):string {\n\tif (sets.length
> 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] =
sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join('');\n\t} else {\n\t\treturn
sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function
typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" :
Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function
toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source)
{\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}","import { URIRegExps } from \"./uri\";\nimport {
merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$
= \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ =
merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ =
\"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //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[05]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[19]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(
subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //
6(
h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$ = subexp(
\"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\")
+ \"{5}\" + LS32$), //
\"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[
h16 ] \"::\" 4( h16 \":\" )

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function ucs2decode(string) {
    const output = [];
    let counter = 0;
    const length = string.length;
    while (counter < length) {
        const value = string.charCodeAt(counter++);
        if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
            // It's a high surrogate, and there is a next character.
            const extra = string.charCodeAt(counter);
            if ((extra & 0xFC00) == 0xDC00) {
                // Low surrogate
                output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
            } else {
                // It's an unmatched surrogate; only append this code unit, in case the next code unit is the high surrogate of a surrogate pair.
                output.push(value);
                counter--;
            }
        } else {
            output.push(value);
        }
    }
    return output;
}

/**
 * Creates a string based on an array of numeric code points.
 * @see `punycode.ucs2.decode`
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
 */
const ucs2encode = array => String.fromCodePoint(...array);

/**
 * Converts a basic code point into a digit/integer.
 * @see `digitToBasic()`
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The numeric value of a basic code point.
 */
const digitToBasic = function(digit, flag) {
    // 0..25 map to ASCII a..z or A..Z
    // 26..35 map to ASCII 0..9
    return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};

/**
 * Converts a generalized variable-length integer into a Punycode string of only ASCII symbols.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
    // Don't use UCS-2.
    const output = [];
    const inputLength = input.length;
    let i = 0;
    let n = initialN;
    let bias = initialBias;

    // Handle the basic code points:
    // let 'basic' be the number of input code units before the last delimiter, or 0 if there is none, then copy
    // the first basic code units to the output.
    const basic = input.lastIndexOf(delimiter);
    if (basic < 0) {
        basic = 0;
    }
    for (let j = 0; j < basic; ++j) {
        // if it's not a basic code unit
        if (input.charCodeAt(j) >= 0x80) {
            error('not-basic');
        }
        output.push(input.charCodeAt(j));
    }

    // Main decoding loop:
    start just after the last delimiter if any basic code units were copied; start at the beginning otherwise.
    let nextIndex = basic > 0 ? basic + 1 : 0;
    let delta = initialDelta + initialBias;
    i = nextIndex;
    n = initialN;
    let bias = initialBias;

    while (true) {
        let oldi = i;
        for (let w = 1, k = base; /* no condition */; k += base) {
            if (nextIndex >= inputLength) {
                error('invalid-input');
            }
            let digit = basicToDigit(input.charCodeAt(nextIndex++));
            if (digit >= base || digit > floor((maxInt - i) / w)) {
                error('overflow');
            }
            i += digit * w;
            const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
            if (t > bias) {
                i -= bias + (tMax - tMax : 0);
            } else {
                i -= (t - bias) * w;
            }
            if (i < 0) {
                error('underflow');
            }
            if (w > maxInt - i) {
                error('overflow');
            }
            nextIndex = i;
            bias = adapt(i - oldi, w);
            oldi = i;
            i = nextIndex;
        }
    }
```javascript
output.splice(i++, 0, n); return String.fromCharCode(...output);
};

/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const encode = function(input) {
  const output = []; // Convert the input in UCS-2 to an array of Unicode code points.
  input = ucs2decode(input);
  // Cache the length.
  let inputLength = input.length;
  // Initialize the state.
  let n = initialN;
  let delta = 0;
  let bias = initialBias;
  // Handle the basic code points.
  for (const currentValue of input) {
    if (currentValue < 0x80) {
      output.push(stringFromCharCode(currentValue));
    }
  }
  let basicLength = output.length;
  let handledCPCount = basicLength;
  // `basicLength` is the number of code points that have been handled.
  // Finish the basic string with a delimiter unless it's empty.
  output.push(delimiter);
  // Main encoding loop:
  while (handledCPCount < inputLength) {
    let m = maxInt;
    for (const currentValue of input) {
      if (currentValue >= n && currentValue < m) {
        m = currentValue;
      }
    }
    // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>.
    if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
      error('overflow');
    }
    delta += (m - n) * handledCPCountPlusOne;
    n = m;
    let delta = +delta;
    // Represent delta as a generalized variable-length integer.
    let q = delta;
    for (let k = base; /* no condition */; k += base) {
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      if (q < t) break;
      const qMinusT = q - t;
      const baseMinusT = base - t;
      output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
      q = floor(qMinusT / baseMinusT);
    }
    output.push(stringFromCharCode(digitToBasic(q, 0)));
    bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
    delta = 0;
    ++handledCPCount;
  }
  return output.join('');
};

/**
 * 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. `n` it doesn't matter if you call it on a string that has already been `n`
 * 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 Punycode string.
 */
const toUnicode = function(input) {
  return mapDomain(input, function(string) {
    return regexPunycode.test(string)
      ? decode(string.slice(4).toLowerCase())
      : string;
  });

/**
 * 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. `n` it doesn't matter if you call it with a domain that's already in `n`
 * 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.
 */
const toASCII = function(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string)
      ? 'xn--' + encode(string)
      : string;
  });

/*-----------------------------------
-----------------------------------*/

/** Define the public API */
const punycode = {
  /**
   * A 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/note/javascript-encoding>
   * @memberOf punycode
   * @type Object
   */
  ucs2: {
    decode: ucs2decode,
    encode: ucs2encode
  },
  /**
   * URI.js
   *
   * @fileoverview 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>
   * Copyright 2011 Gary Court. All rights reserved.
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   */
  uri: {
    /**
     * URI.js
     *
     * @fileoverview 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>
     * Copyright 2011 Gary Court. All rights reserved.
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     */
  }
};
```

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```javascript
import URI_PROTOCOL from './regexps-uri'; import IRI_PROTOCOL from './regexps-iri'; import punycode from 'punycode'; import { toUpperCase, typeOf, assign } from './util';

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

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

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

```

```javascript
function _normalizeComponentEncoding(components: URIComponents, protocol: URIRegExps) {
    function decodeUnreserved(str: string): string {
        const decStr = pctDecChars(str);
        return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
    }

    if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
```
function _recomposeAuthority(components: URIComponents, options: URIOptions): string {
    const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens: Array<string> = [];

    if (components.userinfo !== undefined) {
        uriTokens.push(components.userinfo);
        uriTokens.push("@");
    }

    if (components.host !== undefined) {
        uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => JSON.stringify({ IPv6Address: $1, IPv4Address: $2 })));
    }

    if (typeof components.port === "number") {
        uriTokens.push(":");
        uriTokens.push(components.port.toString(10));
    }

    return uriTokens.length ? uriTokens.join("") : undefined;
}

const RDS1 = /^\.\.?\//;
const RDS2 = /^\/\.(\/|$)/;
const RDS3 = /^\/\.\.(\/|$)/;
const RDS4 = /^\.\.?$/;
const RDS5 = /^\/?(?:.|\n)*?(?=\/|$)/;

export function removeDotSegments(input: string): string {
    const output: Array<string> = [];

    while (input.length) {
        if (input.match(RDS1)) {
            input = input.replace(RDS1, "");
        } else if (input.match(RDS2)) {
            input = input.replace(RDS2, "/");
        } else if (input.match(RDS3)) {
            input = input.replace(RDS3, "/");
            output.pop();
        } else if (input === "." || input === "..") {
            input = "";
        } else {
            const im = input.match(RDS5);
            if (im) {
                const s = im[0];
                input = input.slice(s.length);
                output.push(s);
            } else {
                throw new Error("Unexpected dot segment condition");
            }
        }
    }

    return output.join("");
}

export function serialize(components: URIComponents, options: URIOptions = {}) {
    const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens: Array<string> = [];

    // find scheme handler
    const schemeHandler = SCHEMES[(options.scheme || components.scheme || ").toLowerCase()];

    // perform scheme specific parsing
    try {
        schemeHandler.parse(components, options);
    } catch (e) {
        components.error = components.error || components.error || "URI is not a " + options.reference & &
    }

    // normalize IP hosts
    uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host || components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => JSON.stringify({ IPv6Address: $1, IPv4Address: $2 })));

    return uriTokens.join("");
}
specific serialization\u007f (schemeHandler \&\& schemeHandler.serialize) schemeHandler.serialize(components, options);\u007f (components.host) \n\n\n\nif (schemeHandler \&\& schemeHandler.domainHost)) \n\n\n\n\nprotocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\nwww\u007f if host component is an IPv6 address\n\n\n\n\nif (schemeHandler && schemeHandler.serialize(components, options)) \n\n\n\n\nprotocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\nwww\u007f if host component is a domain name\n\n\n\n\noptions \u007f toASCII2(\n\n\n\nwww\u007f replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase() :\n\n\n\n\nwww\u007f toASCII2(\n\n\n\nwww\u007f (protocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\n\nif (schemeHandler && schemeHandler.domainHost)) \n\n\n\n\nprotocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\nwww\u007f if host component is an IPv6 address as per RFC \n5952\n\n\n\n\nwww\u007f if host component is a domain name\n\n\n\n\nif (options.domainHost || (schemeHandler && schemeHandler.domainHost)) \n\n\n\n\nprotocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\nwww\u007f if host component is a domain name\n\n\n\n\nif (options.domainHost || (schemeHandler && schemeHandler.domainHost)) \n\n\n\n\nprotocol.IPV6ADDRESS.test(components.host)) \n\n\n\n\nwww\u007f if host component is a domain name

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

	if (typeof uriB === "string") {
		uriB = serialize(parse(uriB, options), options);
	} else if (typeOf(uriB) === "object") {
		uriB = serialize(<URIComponents>uriB, options);
	}

	return uriA === uriB;
};

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

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

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

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

export interface MailtoComponents extends URIComponents {
	o:Array<string>,
	headers?:MailtoHeaders,
	subject?:string,
	body?:string
}

const O:MailtoHeaders = {};
const isIRI = true;

//RFC 3986
const UNRESERVED$$ = "[A-Za-z0-9\\-\\.\\_\\~" + (isIRI ? "\\xA0-\\u200D\\u2010-\\u2029\\u202F-\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFEF" : "]") + "]";
const HEXDIG$$ = "[0-9A-Fa-f]";  //case-insensitive
const PCT_ENCODED$ = subexp(subexp("%[EFef]" + HEXDIG$$ + "%" + HEXDIG$$ + HEXDIG$$ + "%" + HEXDIG$$) + "|" + subexp("%[89A-Fa-f]" + HEXDIG$$ + "%" + HEXDIG$$ + HEXDIG$$ + "%" + HEXDIG$$) + "|" + subexp("%" + HEXDIG$$ + HEXDIG$$ + HEXDIG$$)) + ";";
const ATEXT$$ = "[^A-Za-z0-9\\!\\#\\$\\%\\&\\'\\*\\+\\-\\^\\_\\`\\{\\|\\}\\~\]";
const QTEXT$$ = "[\\!\\$\\%\\'\\(\\)\\*\\+\\,\\;\\:\\@]";
const VCHAR$$ = merge(QTEXT$$, "[\\\"\\\\]"));
const DOT_ATOM_TEXT$ = subexp(ATEXT$$ + "+" + subexp("\\." + ATEXT$$ + "|" + ATEXT$$ + "|" + subexp("\\." + ATEXT$$) + "|" + subexp("\\." + ATEXT$$) + "+") + "*");
const QUOTED_PAIR$ = subexp("\\" + VCHAR$$);
const QCONTENT$ = subexp(QTEXT$$ + "|" + QUOTED_PAIR$);
const QUOTED_STRING$ = subexp('\\"' + QCONTENT$ + "*" + '\\" ');
(!components.host) {
			components.error = components.error || "HTTP URIs must have a host."
		}
		return components;
	}

function normalize (components, port) {
		components.port = undefined;
		components = normalize (components, path)
	}

function (components) {
		components.path = "\"": components
}

const SCHEMES = {
		http : http
}

const handler:URISchemeHandler = {
	scheme : "http",
	domainHost : http.domainHost,
	parse : function (components, options) {
		return components;
	},

	serialize : function (components, options) {
		return components;
	}
};

export default handler;
URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

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

### API

#### Parsing

```
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}
```

#### Serializing

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

#### Resolving

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

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

### Comparison

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

### IP Support

//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"

//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"

//IPv6 zone identifier support
URI.parse("//[2001:db8::7%en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}

### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ro%C3%A9"

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

### Options

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

* `scheme` (string)

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

* `reference` (string)

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

* `tolerant` (boolean, false)

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

* `absolutePath` (boolean, false)
If set to `true`, the serializer will not resolve a relative `path` component.

*`iri` (boolean, false) *

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

*`unicodeSupport` (boolean, false) *

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

*`domainHost` (boolean, false) *

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

## Scheme Extendable

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

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

### HTTP Support

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

### Mailto Support

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

URI.serialize({
  scheme : "mailto",
  to : ["alpha@example.com"],
  subject : "REMOVE",
  body : "Please remove me",}
headers: {
  cc: "charlie@example.com"
}
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"

### URN Support

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

#### URN UUID Support

URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
//  scheme: "urn",
//  nid: "example",
//  uuid: "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}

## Usage

To load in a browser, use the following tag:

<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

npm install uri-js

Then, in your code, load it using:

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

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

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

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

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

### Breaking changes from 3.x

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

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

### Breaking changes from 2.x

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

### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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/*
* QUnit - A JavaScript Unit Testing Framework
*
* http://docs.jquery.com/QUnit
*
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +

headers[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar) +

headers[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)
					"=
					headers[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)
				);
		}
		if (fields.length)

			components.query = fields.join("&");
		}

		return components;
	}
}

export default

import { URISchemeHandler, URIComponents, URIOptions } from "../uri";
import http from "./http";

const handler:URISchemeHandler = {
	scheme : "https",
	domainHost : http.domainHost,
	parse : http.parse,
	serialize : function (components:URIComponents, options:URIOptions):URIComponents

{name: components.error = components.error }

HTTP URIs must have a host.

					components.query = components.query || 

					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

					components.query = components.query || 
					true;

					components.query = components.query || 
					false;

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index)) => {
			if (!field || field === "0") {
				const lastLongest = acc[acc.length - 1];
				if (lastLongest

				&& lastLongest.index + lastLongest.length === index) {
					lastLongest.length++;
				} else {
					acc.push({ index, length : 1 });
				}
			}
			return acc;
		},

		const longestZeroFields = index) => {
			if (!field || field === "0") {
				const lastLongest = acc[acc.length - 1];
				if (lastLongest

				&& lastLongest.index + lastLongest.length === index) {
					lastLongest.length++;
				} else {
					acc.push({ index, length : 1 });
				}
			}
			return acc;
		},

		const longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];

		let newHost:string;
		if (longestZeroFields

				&& longestZeroFields.length > 1) {
				const newFirst = fields.slice(0, longestZeroFields.index); fields.join("\":") + "::" +

					fields.slice(longestZeroFields.index + longestZeroFields.length);

					newHost = newFirst.join("\":") + "::" +

					newLast.join("\":")
					else {
						newHost = fields.join("\":")
					}

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global

@returns {Array} A new string of characters returned by the callback

\`
mapDomain(string, fn) { 
const parts = string.split('@'); 
let result = ''; 
if (parts.length > 1) { 
result = parts[0] + '@'; 
string = parts[1]; 
}

const labels = string.split('.'); 
const encoded = map(labels, fn).join('.'); 
return result + encoded;
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function mapDomain(string, fn) {
const parts = string.split('@');
let result = '';
if (parts.length > 1) {
result = parts[0] + '@';
string = parts[1];
}
string = string.replace(regexSeparators, '\x2E');
const labels = string.split('.');
const encoded = map(labels, fn).join('.');
return result + encoded;
\`

@returns {Array} A new string of characters returned by the callback

\`
function ucs2decode(string) {
const output = [];
let counter = 0;
const length = string.length;
while (counter < length) {
const value = string.charCodeAt(counter++);
if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
const extra = string.charCodeAt(counter++);
if ((extra & 0xFC00) == 0xDC00) {
output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
} else {
output.push(value);
counter--;
}
} else {
output.push(value);
}
}
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let result = ''; 
if (parts.length > 1) {
result = parts[0] + '@';
string = parts[1];
}

string = string.replace(regexSeparators, '\x2E');
const labels = string.split('.');
const encoded = map(labels, fn).join('.');
return result + encoded;
\`
the next character to be consumed. // Decode a generalized variable-length integer into \`delta\`, which gets added to \`i\`. The overflow checking is easier if we increase \`i\` as we go, then subtract off its starting value at the end to obtain \`delta\`. // Decode a generalized variable-length integer into `delta`, which gets added to `i`. The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.

```javascript
let oldi = i;
for (let w = 1, k = base; /* no condition */; k += base)
{
	if (index >= inputLength) {
		error('invalid-input');
	}
	digit = basicToDigit(input.charCodeAt(index++));
	nextChar = advancedBaseChar[digit];
	nextChar = basicToDigit(digit); // The overflow checking is easier if we increase i as we go, then subtract off its starting value at the end to obtain delta.
	nextChar = basicToDigit(digit); // The overflow checking is easier if we increase i as we go, then subtract off its starting value at the end to obtain delta.
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	if (digit >= base || digit > floor((maxInt - i) / w)) {
		error('overflow');
	}
	delta += digit * w;
	nextChar = advancedBaseChar[digit];
	nextChar = basicToDigit(digit); // The overflow checking is easier if we increase i as we go, then subtract off its starting value at the end to obtain delta.
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	nextChar = basicToDigit(digit); // The overflow checking is easier if we increase i as we go, then subtract off its starting value at the end to obtain delta.

	// Handle the basic code points.
	output[i] = digitToBasic(t + qMinusT % baseMinusT);
	nextChar = advancedBaseChar[digit];
	nextChar = basicToDigit(digit); // The overflow checking is easier if we increase i as we go, then subtract off its starting value at the end to obtain delta.
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// Insert \`n\` at position \`i\` of the output.

```
```
regexNonASCII.test(string)\n\n\nconst punycode = {

	
	/** Define the public API */

	const punycode = {

		/**
	 * A 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 points, and back.
	 * @memberOf punycode
	 * @type Object
	 */

		'decode': ucs2decode,

		'encode': ucs2encode

		};

	export default punycode;

}
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';

const packageJson = require('./package.json');

export default {
  entry: "dist/esnext/index.js",
  format: "umd",
  moduleName: "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    }),
    babel({
      "presets": [
        "latest",
        "es2015"
      ]
    })
  ],
  module: true,
  jsnext: true,
  preferBuiltins: false
});
/**
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Found in path(s):
* /opt/cola/permits/1099116970_1602312245.69/0/garycourt-uri-js-4-2-2-0-g4f6f600-tar.gz/garycourt-uri-js-
4f6f600/src/uri.ts
* /opt/cola/permits/1099116970_1602312245.69/0/garycourt-uri-js-4-2-2-0-g4f6f600-tar.gz/garycourt-uri-js-
4f6f600/dist/esnext/uri.js
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1099116970_1602312245.69/0/garycourt-uri-js-4-2-2-0-g4f6f600-tar.gz/garycourt-uri-js-
4f6f600/dist/es5/uri.all.min.js

1.88 python-dockerpty 0.4.1
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1.90 output-file-sync 1.1.2

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1.92 crypto-browserify 3.12.0

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1.93 babel-plugin-transform-es2015-modules-commonjs 6.26.0
1.94 popt 1.16

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1.96 postgresql 12.2

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1.100 libxslt 1.1.34

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1.107 jedi 0.12.1

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1.108 bzip2 1.0.8

1.109 chalk 1.1.3

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1.111 os-tmpdir 1.0.2
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1.112 twisted 18.7.0

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from __future__ import division, absolute_import
```
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rom twisted import __version__ as version, version as longversion

longversion = str(longversion)

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1.114 billiard 3.6.1.0

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1.115 safe-buffer 5.1.2
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1.116 babel-helper-call-delegate 6.24.1

1.117 lunr 0.7.2
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1.118 sha.js 2.4.11
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1.119 websocket-client 0.47.0

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1.120 debug 2.6.9

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1.121 core-util-is 1.0.2

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1.122 txaio 18.8.1

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1.124 invariant 2.2.4

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1.125 os-homedir 1.0.2

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1.126 readable-stream 2.3.6

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1.127 cryptography 2.8
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1.130 mkdirp 0.5.1
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1.131 remove-trailing-separator 1.1.0

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1.132 regex-cache 0.4.4

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1.133 mpdecimal 2.4.2

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1.135 webpack-jquery-ui 2.0.1

1.136 runc 1.0.0-rc10

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1.138 babylon 6.18.0

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1.140 randomatic 1.1.7

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1.141 babel-plugin-transform-es2015-spread 6.22.0

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1.143 busybox 1.31.1
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be called something other than `show w' and `show c'; they could even be
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
1.144 dcron 4.5

1.145 lodash 4.17.11

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1.146 fill-range 2.2.3
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1.147 public-encrypt 4.0.2

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1.148 browserify-cipher 1.0.1

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1.149 babel-generator 6.26.1

1.150 file-saver 1.3.3

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[1]: http://eligrey.com

1.151 loose-envify 1.3.1
1.151.1 Available under license :
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1.152 et-xmlfile 1.0.1

1.153 strict-rfc3339 0.7
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1.160 isodate 0.6.0

1.161 coverage 4.3.4
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Coverage.py was originally written by Gareth Rees, and since 2004 has been
extended and maintained by Ned Batchelder.

Other contributions, including writing code, updating docs, and submitting
useful bug reports, have been made by:

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1.166 ntp 4.2.8p15

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1.167 babel-plugin-transform-es2015-template-literals 6.22.0

1.168 text-encoding-shim 1.0.4

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1.170 babel-helper-hoist-variables 6.24.1
1.171 is-primitive 2.0.0

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1.172 set-immediate-shim 1.0.1

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1.174 escape-string-regexp 1.0.5

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1.175 source-map 0.5.7

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1.176 linux-kernel 5.4.23

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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
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        <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"/>
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1.185 start-stop-daemon 1.18.10

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1.186 ipython-genutils 0.2.0

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1.187 certifi 2019.11.28

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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 $
1.188 lvm2 2.02.185

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1.193 number-is-nan 1.0.1

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1.194 bn.js 4.11.8

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1.195 slash 1.0.0

1.196 babel-plugin-transform-es2015-block-scoping 6.26.0

1.197 autobahn 18.9.1
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1.198 normalize-path 2.1.1

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1.199 backbone-paginator 2.0.6

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1.200 string_decoder 1.1.1

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1.201 process-nextick-args 2.0.0

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1.202 babel-plugin-transform-regenerator
6.26.0

1.203 linux-headers 4.19.107

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* */
/* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* http://www.hypermall.com/ */
/* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY *interrupts us (except possibly for removal/insertion of the cable?) */
/* 10/4/97 - began heavy inline documentation of the code. Corrected typos *and spelling mistakes. */
/* 10/5/97 - added code to handle PHY interrupts, disable PHY on *loss of link, and correctly re-enable PHY when link is *re-established. (put back CFG_PHYIE) */
/* */
/* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. */
/* */
/* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 */
/* */
/* Linux driver for the IDT77201 NICStar PCI ATM controller. */
/* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; */
/* see init_nicstar() for PHY initialization to change this. This driver * */
/* expects the Linux ATM stack to support scatter-gather lists */
/* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. */
/* */
/* Implementing minimal-copy of received data: */
/* IDT always receives data into a small buffer, then large buffers */
/* as needed. This means that data must always be copied to create */
/* the linear buffer needed by most non-ATM protocol stacks (e.g. IP) */
/* Fix is simple: make large buffers large enough to hold entire */
/* SDU, and leave <small_buffer_data> bytes empty at the start. Then */
/* copy small buffer contents to head of large buffer. */
/* Trick is to avoid fragmenting Linux, due to need for a lot of large */
/* buffers. This is done by 2 things: */
/* 1) skb->destructor / skb->atm.recycle_buffer */
/* combined, allow nicstar_free_rx_skb to be called to */
/* recycle large data buffers */
/* 2) skb_clone of received buffers */
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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1.204 redis 3.2.12

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1.205 source-list-map 2.0.1

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1.206 color-name 1.1.3

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1.208 fs.realpath 1.0.0

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1.209 micromatch 2.3.11

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1.210 pcre 8.44

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1.211 redis 3.2.0

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1.212 babel-types 6.26.0
1.213 open-ldap 2.4.48

1.214 go-jsonpointer
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1.236 libxml 2.9.10

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1.237 babel-register 6.26.0

1.238 preserve 0.2.0

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1.239 incremental 17.5.0

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1.241 netcat 0.7.1
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1.243 babel-plugin-transform-es2015-object-super 6.24.1

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

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

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

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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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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:
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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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.

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1.251 python-blessed 1.17.5

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1.252 python-cached-property 1.4.3

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1.253 ndisc 1.0.4

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1.266 css-selector-tokenizer 0.7.1

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1.269 docker-proxy

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1.272 sudo 1.8.31

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1.273 babel-preset-es2015 6.24.1
1.274 pyt z 2018.5

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1.275 json5 0.5.1

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1.276 style-loader 0.21.0

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1.277 minimalistic-crypto-utils 1.0.1

1.278 js-tokens 3.0.2

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1.281 babel-helper-replace-supers 6.24.1

1.282 webcolors 1.7
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1.283 regenerate 1.3.3

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1.284 buffer-xor 1.0.3

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1.285 open-vm-tools 10.3.5

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Open-vm-tools v10.3.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.288 pyrsistent 0.15.6

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1.291 libevent 2.1.11

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1.292 expand-range 1.8.2
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1.293 docker-engine 19.03.5

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

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Protocol Buffers for Go with Gadgets

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

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1.294 babel-helper-optimise-call-expression
6.24.1

1.295 python-setuptools 41.4.0
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1.296 babel-plugin-transform-es2015-shorthand-properties 6.24.1
1.297 regjsparser 0.1.5

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1.298 babel-code-frame 6.26.0

1.299 regexpu-core 2.0.0

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1.302 python-certifi 2019.9.11

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1.303 array-unique 0.2.1

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1.305 json-schema-traverse 0.4.1

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1.308 docker-compose 1.24.1

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1.324 esutils 2.0.2

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

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

*/

1.328 regexpu-core 1.0.0

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1.329 postcss-modules-scope 1.1.0

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1.336 chardet 3.0.4

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1.340 libatomic-ops 7.6.10

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1.341 pyasn1 0.4.4
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ASN.1 library for Python
================================

.. toctree::
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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 if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions 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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.. toctree::
   :maxdepth: 2

/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.

Getting help
-------------


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

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


On the other end of the readability spectrum, here is a quick and sweet write up:
If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

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
```
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 7B
```

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())
```

```python
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
```

```python
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
```

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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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md
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=======

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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/tests/type/test_opentype.py
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/tests/type/test_univ.py
1.342 postcss 6.0.23

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1.343 postcss 6.0.21

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1.344 libglib 2.62.4

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1.349 asn1.js 4.10.1

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1.350 babel-helper-regex 6.26.0

1.351 docker-containerd 1.2.12

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

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Protocol Buffers for Go with Gadgets

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1.352 python-backports-ssl-match-hostname

3.5.0.1

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**1.353 django-cors-headers 2.4.0**

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1.354 glob-base 0.3.0

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1.355 traitlets 4.3.2
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1.358 is-equal-shallow 0.1.3

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1.363 arr-diff 2.0.0

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1.364 css-selector-tokenizer 0.7.0

1.365 for-own 0.1.5

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1.367 wsaccel 0.6.2

1.368 babel-core 6.26.0

1.369 once 1.4.0
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1.370 nettle 3.5.1

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1.380 babel-traverse 6.26.0

1.381 create-hash 1.2.0

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1.382 readdirp 2.1.0

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1.383 backbone 1.3.3

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1.384 babel-plugin-transform-es2015-sticky-regex 6.24.1

1.385 randomfill 1.0.4
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1.386 babel-plugin-transform-es2015-destructuring 6.23.0

1.387 miller-rabin 4.0.1
1.388 has-flag 3.0.0

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1.389 file-loader 1.11

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1.390 libsodium 1.0.18

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1.391 six 1.14.0

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1.392 kombu 4.6.7

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1.393 libestr 0.1.11

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1.396 xz 5.2.4

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1.398 postcss-modules-local-by-default 1.2.0

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1.400 babel-helper-define-map 6.26.0

1.401 elliptic 6.4.1

1.402 parso 0.5.2

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1.405 xmltodict 0.11.0

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1.406 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.407 pkijs 2.1.10

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1.408 has-ansi 2.0.0

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

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

```js
## Install
```

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

```js
## Usage
```

```bash
var has Ansi = require('has-ansi');
has Ansi('u001b[4mcake\u001b[0m');
```
//=> true

hasAnsi('cake');
//=> false
```

## Related

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

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1.410 libtasn 4.13

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1.413 idna 2.8

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1.416 inflight 1.0.6

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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.

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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 if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as
recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

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

ASN.1 applications
-------------------

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

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

ASN.1 gotchas
-------------

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

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

Documentation
--------------

.. toctree::

   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
Download & Install

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


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

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


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


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

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ASN.1 library for Python
------------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
-------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

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

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

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.
The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

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

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

Could be expressed in pyasn1 like this:

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

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

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
```
>>> str(record)
Record:
  id=123
  room=321
>>> 
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> 
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```
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1.426 libvmtools 10.3.5.7752

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

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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}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.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}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    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{
        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
}

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 licensing

import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"
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.Wrap(err, errors.Fields{
    "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(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
}
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.

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

func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    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

Looking for existing licenses for ...

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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: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration 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
{
  `license: id1
name: name1
owner: owner1
components: compstring
license: id2
name: name2
owner: owner2
components: compstring
`,
},
{
  `license: id1
name: name1
owner: owner1
components: compstring
license: id2
name: name2
owner: owner2
components: compstring
`,
}
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
testcase.context.Subscriptions = []licenseutils.LicenseDisplay{ }
}

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",
}
}
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
Quantity: 20 nodes
Expiration 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{
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))
}
}

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Protocol Buffers for Go with Gadgets

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

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1.436 jsonschema 2.5.1
1.436.1 Available under license :

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1.438 parse-asn1 5.1.1

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1.440 path-is-absolute 1.0.1

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1.442 babel-plugin-transform-es2015-unicode-regex 6.24.1
1.443 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.444 urllib3 1.24.2
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# Contributions to the urllib3 project

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* 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/@WBRSRiBZeBFxQ6/>
  * Code review, PEP8 compliance, benchmark fix

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

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  * Bugfixes, Improvements and Test coverage

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  * 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

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  * Fixed a race condition

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  * 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

* Benjamen 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 `urlib2.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]

### 1.445 libyaml 0.2.2

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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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1.448 backcall 0.1.0

1.449 pyyaml 5.3
1.449.1 Available under license :
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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
`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.

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

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1.463 celery 4.3.0

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

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1.470 daphne 2.4.1

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