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Text Part Number: 78EE117C99-1369313285
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### 1.1 asn1.js 4.10.1

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**1.2 channels 2.3.1**

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**1.3 big.js 5.2.2**

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https://github.com/iriscouch/bigdecimal.js

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1.7 backbone.radio 2.0.0

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1.14 number-is-nan 1.0.1

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1.15 django 2.1.4

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

Advice for new contributors

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

.. admonition:: Basic tools and workflow

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

First steps
============

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

* **Sign the Contributor License Agreement**

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

* **Triage tickets**

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

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

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

* **Keep old patches up to date**

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

* **Write some documentation**
Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `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/clas
   .. Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/clas/faq/
   .. unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
-----------

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

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

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

* **Analyze tickets' context and history**

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

* **Start small**

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

* **If you're going to engage in a big task, make sure that your idea has support first**
This means getting someone else to confirm that a bug is real before you fix
the issue, and ensuring that there's consensus on a proposed feature before
you go implementing it.

* **Be bold! Leave feedback!**

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

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

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

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

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

* **Be rigorous**

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

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

.. _new-contributors-faq:

FAQ
===

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

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

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

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

A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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1.18 sqlite 3.30.1

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1.26 uri-js 4.2.2

1.26.1 Available under license:

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```javascript
/*
 * QUnit - A JavaScript Unit Testing Framework
 * http://docs.jquery.com/QUnit
 *
 * Copyright (c) 2009 John Resig, Jörn Zaefferer
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 */
/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */
```

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js

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# URI.js

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

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

## API
### Parsing

```javascript
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

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

### Resolving

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

### Normalizing

```javascript
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

### Comparison

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

### IP Support

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

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

```javascript
//IPv6 zone identifier support
URI.parse("//[2001:0:7%25en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}
```

### IRI Support

```javascript
//convert IRI to URI
```
URI.serialize(URI.parse("http://exampl.org/ro")) === "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/ro"

### 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)]

### 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:

```html
<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:

```bash
npm install uri-js
```

Then, in your code, load it using:

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

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

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

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

```javascript
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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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md
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/**
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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js

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Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js

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```
export function merge(...sets:Array<string>):string {
  if (sets.length > 1) {
    sets[0] = sets[0].slice(0, -1);
    const xl = sets.length - 1;
    for (let x = 1; x < xl; ++x) {
      sets[x] = sets[x].slice(1, -1);
    }
    sets[xl] = sets[xl].slice(1);
    return sets.join('');
  } else {
    return sets[0];
  }
}

export function subexp(str:string):string {
  return "(?:" + str + ")";
}

export function
```
RegExp(PCT_ENCODED$, \"g\"),\n\nIPv4ADDRESS : new RegExp("^(\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3})$"),
IPv6ADDRESS : new RegExp("^\[?\{:12\}\]$"),
subexp(subexp("\\%25|\\%(?!" + HEXDIG$$ + "{2})") + "(" + ZONEIDS$ + ")\}\" + IPV4ADDRESS$ + "\})" + IPV6ADDRESS$ + "\})" + \"(?\|\?|\?\|\?\|$\)" ) //RFC 6874, with relaxed parsing rules\n
\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n
/**
 * A generic error utility function.\n * @private
 * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */
function error(type) {
    throw new RangeError(errors[type]);
}

/**
 * A simple `Array#map`-like wrapper to work with domain name strings or email addresses.\n * @private
 * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every \n * character.\n * @returns {Array} A new string of characters returned by the callback.\n */
function mapDomain(string, fn) {
    const parts = string.split('@');
    let result = '';
    if (parts.length > 1) {
        // In email addresses, only the domain name should be punycoded. Leave the local part (i.e. everything up to `@`) intact.
        result = parts[0] + '@';
        string = parts[1];
    }
    // Avoid `split(regex)` for IE8 compatibility. See #17.
    string = string.replace(regexSeparators, '\x2E');
    const labels = string.split('.');
    const encoded = map(labels, fn).join('.');
    return result + encoded;
}

/**
 * Creates an array containing the numeric code points of each Unicode character in the string. While JavaScript uses UCS-2 internally, this function will convert a pair of surrogate halves (each of which uses UCS-2 exposes as separate characters) into a single code point, matching UTF-16.\n * @see `punycode.ucs2.decode`
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */
const ucs2encode = array => String.fromCharCode(...array);

/**
 * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in \n * representing integers) in the range `0` to `base - 1`, or `base` if the code point does not represent a value.\n */
const basicToDigit = function(codePoint) {
    return codePoint - 0x16;
};
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```javascript
0x61: \u{n} * Converts a digit/integer into a basic code point.\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number}

function basicToDigit(digit) {
    return digit;
}

function digitToBasic(digit)
```
handledCPCountPlusOne; let q = delta; 

for (const currentValue of input) {
  if (currentValue < n && ++delta > maxInt) {
    error('overflow');
    return;
  }

  if (currentValue == n) {
    // Represent delta as a
generalized variable-length integer.
    let q = delta;
    for (let k = base; /* no condition */; k += base)
      if (q < t) {
        break;
      }

      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      q = floor(q - t / baseMinusT);
      output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,
0)));
    bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
    delta = 0;
  }
}

Converts a Punycode string representing a domain name or an email address\n* 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.\n* @memberOf punycode\n* @param {String} input The Punycoded domain name or\n* email address to\n* convert to Unicode.\n* @returns {String} The Unicode representation of the given Punycode\n* string.\n* @const toUnicode = function(input) {\n  return mapDomain(input, function(string) {
    if (regexPunycode.test(string))
      return decode(string.slice(4).toLowerCase());
    return string;
  });\n};

Converts a Unicode string representing a domain name or an email address\n* to Punycode. Only the non-ASCII\n* parts of the domain name will be converted,\n* i.e. it doesn’t matter if you call it with a domain that’s already in\n* ASCII.\n* @memberOf punycode\n* @param {ParamString} input The domain name or email address to convert, as a\n* Unicode string.\n* @returns {String} The Punycode representation of the given domain name or\n* email\n* address.\n* @const toASCII = function(input) {\n  return mapDomain(input, function(string) {
    return encode(string);
  });\n};

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

/** Define the public API */
const punycode = {
  /**
   * A string
   * representing the current Punycode.js version number.
   * \n  */
  'version': '2.1.0',
  /**
   * An object of methods to convert from JavaScript's internal character
   * representation (UCS-2) to Unicode code points, and back.
   * \n  */
  'ucs2': {
    'decode': ucs2decode,
    'encode': ucs2encode
  },
  'decode': decode,
  'encode': encode,
  'toASCII': toASCII,
  'toUnicode': toUnicode
};

export default punycode;
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;
  absoultePath?: boolean;
  tiri?: 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;
}

export interface URIRegExps {
  NOT_SCHEME: RegExp,
  NOT_USERINFO: RegExp,
  NOT_HOST: RegExp,
  NOT_PATH: RegExp,
  NOT_PATH_NOSCHEME: RegExp,
  NOT_QUERY: RegExp,
  NOT_FRAGMENT: RegExp,
  ESCAPE: RegExp,
  UNRESERVED: RegExp,
  OTHER_CHARS: RegExp,
}

export const SCHEMES:{[scheme: string]: URISchemeHandler} = {};

export function pctEncChar(chr: string): string {
  const c = chr.charCodeAt(0);
  let e: string;

  if (c < 16) e = `%0${c.toString(16).toUpperCase()};
  else if (c < 128) e = `%${c.toString(16).toUpperCase()};
  else if (c < 2048) e = `%\{${(c >> 6) | 192}.toString(16).toUpperCase()}%\{${(c & 63) | 128}.toString(16).toUpperCase()};
  else e = `%\{${(c >> 12) | 224}.toString(16).toUpperCase()}%\{${(c >> 6) & 63} | 128].toString(16).toUpperCase() %\{${(c & 63) | 128}.toString(16).toUpperCase();

  return e;
}

export function pctDecChars(str: string): string {
  let newStr = "";
  let i = 0;
  const il = str.length;

  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);

    if (c < 128) {
      newStr += String.fromCharCode(c);
      i += 3;
    }
    else if (c >= 194 && c < 224) {
      newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
      i += 6;
    }
    else if (c >= 224) {
      newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
      i += 6;
    } else {
      newStr += str.substr(i, 3);
      i += 3;
    }
  }

  return newStr;
}

function _normalizeComponentEncoding(components: URIComponents, protocol: URIRegExps) {
  function decodeUnreserved(str: string): string {
    const decStr = str.replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_SCHEME, "\"\;
      (componentsuserinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
      toUpperCase).if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
      toUpperCase).if (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_PATH, pctEncChar).replace(protocol.PCT_ENCODED,
      toUpperCase).if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
      toUpperCase).if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
      decodeUnreserved, toLowerCase).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
      toUpperCase).return components;

  } 

  return components;
}

function _stripLeadingZeros(str: string): string {
  return str.replace(/^0*(.*)/, "$1") || "0";
}

function _normalizeIPv4(host: string, protocol: URIRegExps): string
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 {
  to:Array<string>,
  headers?:MailtoHeaders,
  subject?:string,
  body?:string
}

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

//RFC 3986
const UNRESERVED$$ = "[A-Za-z0-9-._~" + (isIRI ? punycode.iriReserved : punycode.reserved) + "*%\]"}
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$$)); // expanded

// RFC 6068

function decodeUnreserved(str:string):string {
    const decStr = pctDecChars(str);
    return (!decStr.match(UNRESERVED) ? str : decStr);
}

const handler:URISchemeHandler<MailtoComponents> = {
    scheme: "mailto",
    parse: function(components:URIComponents, options:URIOptions):MailtoComponents {
        const mailtoComponents = components as MailtoComponents;
        const to = mailtoComponents.to = (mailtoComponents.path ?
            mailtoComponents.path.split("\"\") : []);
        const mailtoComponents.path = undefined;
        let unknownHeaders = false;
        let hfields = mailtoComponents.query.split("\"\")
        for (let x = 0, xl = hfields.length; x < xl; ++x) {
            hfields[x].split("\"\")
            switch (hfields[x]) {
                case "to":
                    mailtoComponents.subject = unescapeComponent(hfields[x], options);
                    break;
                case "body":
                    mailtoComponents.body = unescapeComponent(hfields[x], options);
                    break;
                default:
                    unknownHeaders = true;
                    break;
            }
        }
        return mailtoComponents;
    }
};
TRANSFORM URN_SCHEME = new RegExp(\"urn:\\([^\\^]++NIDSS+\^)\\S\\^)\"); \nconst URN_PATH = new RegExp(\"urn:(NIDSS+\^)\\S\"); \nconst URN_PARSE = /(?<\^)\S\([^!*+,]+!\)]\^)\"; \nconst URN_EXCLUDED = /[a-zA-Z0-9]/\"; \n\nconst SCHEMES = {\n  http: http, \n  https: https, \n  mailto: mailto, \n  urn: urn, \n  uuid: uuid, \n}; \n
// REGISTER SCHEMES \nObject.keys(SCHEMES).forEach(function(scheme) { \n  SCHEMES[scheme].load(); \n});

// EXPORT \nexport { SCHEMES } from \"./uri\";
options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\tif (unknownHeaders) mailtoComponents.headers =
headers;\n\t\t}\n\n\t\tmailtoComponents.query = undefined;\n\n\t\tfor (let x = 0, xl = to.length; x < xl; ++x)
{\n\t\t\tconst addr = to[x].split(\"@\");\n\n\t\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\t\tif
(!options.unicodeSupport) {\n\t\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\taddr[1] =
punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t\t} catch (e)
{\n\t\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted
to ASCII via punycode: \" + e;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\taddr[1] = unescapeComponent(addr[1],
options).toLowerCase();\n\t\t\t}\n\n\t\t\tto[x] = addr.join(\"@\");\n\t\t}\n\n\t\treturn
mailtoComponents;\n\t},\n\n\tserialize : function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst
to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\t\tconst
toAddr = String(to[x]);\n\t\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\t\tconst localPart = (toAddr.slice(0,
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet domain = toAddr.slice(atIdx +
1);\n\n\t\t\t\t//convert IDN via punycode\n\t\t\t\ttry {\n\t\t\t\t\tdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t}\n\n\t\t\t\tto[x] = localPart + \"@\" +
domain;\n\t\t\t}\n\n\t\t\tcomponents.path = to.join(\",\");\n\t\t}\n\n\t\tconst headers = mailtoComponents.headers =
mailtoComponents.headers || {};\n\n\t\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\tfor (const name in headers) {\n\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\tfields.push(\n\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\"=\"
+\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t\t);\n\t\t\t}\n\t\t}\n\t\tif (fields.length)
{\n\t\t\tcomponents.query = fields.join(\"&\");\n\t\t}\n\n\t\treturn components;\n\t}\n}\n\nexport default
handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from
\"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse
: http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme :
\"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host)
{\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\t\treturn
components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents
{\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !==
\"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the
empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query
strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not
the HTTP spec.\n\n\t\treturn components;\n\t}\n};\n\nexport default handler;","/**\n * URI.js\n *\n * @fileoverview
An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author
<a href=\"mailto:gary.court@gmail.com\">Gary Court</a>\n * @see http://github.com/garycourt/uri-js\n
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*/

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;
 ://?;protocol:
  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;
}

export interface URIRegExps {
  NOT_SCHEME: RegExp,
  NOT_USERINFO: RegExp,
  NOT_HOST: RegExp,
  NOT_PATH: RegExp,
  NOT_PATH_NOSCHEME: RegExp,
  NOT_QUERY: RegExp,
  NOT_FRAGMENT: RegExp,
  ESCAPE: RegExp,
  UNRESERVED: RegExp,
  OTHER_CHARS: RegExp,
  IPV4ADDRESS: RegExp,
}

export const SCHEMES: {[scheme: string]: URISchemeHandler} = {};

export function pctEncChar(chr: string): string {
  const c = chr.charCodeAt(0);
  let e = '';
  if (c < 16) e = '\%0' + c.toString(16).toUpperCase();
  else if (c < 128) e = '\%' + c.toString(16).toUpperCase();
  else if (c < 2048) e = '\%1' + ((c >> 6) | 192).toString(16).toUpperCase() + '\%2' + ((c & 63) | 128).toString(16).toUpperCase();
  return e;
}

export function pctDecChars(str: string): string {
  let newStr = '';
  let i = 0;
  const il = str.length;
  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);
    if (c < 128) newStr += String.fromCharCode(c);
    else if (c >= 194 && c < 224) {
      newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
    }
    else if (c >= 224) {
      newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
    }
    i += 2;
  }
  return newStr;
}

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

  if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved);
  if (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved);
  if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved);
}
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase());


if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase());

if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved);
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :  

punycode.toUnicode(components.host));

// try to normalize authority
try {
  authority = <recomposeAuthority(components, options)>;
} catch (e) {
  error = error || "Host's domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
}

//normalize encoding
_normalizeComponentEncoding(components, protocol);

if (options.reference !== "suffix" && components.scheme) {
  uriTokens.push(components.scheme);
  uriTokens.push(":");
}

authority = _recomposeAuthority(components, options);
if (authority !== undefined) {
  uriTokens.push("//");
  uriTokens.push(authority);
}

if (components.path && components.path.charAt(0) !== "/") {
  uriTokens.push("/");
}

if (components.query !== undefined) {
  uriTokens.push("?");
  uriTokens.push(components.query);
}

if (components.fragment !== undefined) {
  uriTokens.push("#");
  uriTokens.push(components.fragment);
}

return uriTokens.join("");  //merge tokens into a string
};

export function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {
  const target:URIComponents = {};

  if (!skipNormalization) {
    base = parse(serialize(base, options), options);  //normalize base components
    relative = parse(serialize(relative, options), options);  //normalize relative components
  }

  options = options || {};

  if (!options.tolerant && relative.scheme) {
    target.scheme = relative.scheme;
    //target.authority = relative.authority;
    target.userinfo = relative.userinfo;
    target.host = relative.host;
    target.port = relative.port;
    target.path = removeDotSegments(relative.path || "/");
    target.query = relative.query;
  } else {
    if (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {
      //target.authority = relative.authority;
      //target.userinfo = relative.userinfo;
      //target.host = relative.host;
      //target.port = relative.port;
      target.path = removeDotSegments(relative.path || "/");
      target.query = relative.query;
      //target.scheme = relative.scheme;
      //target.authority = relative.authority;
      target.userinfo = relative.userinfo;
      target.host = relative.host;
      target.port = relative.port;
    } else {
      //don't allow the path to start with "/" or "//"
      if (relative.path.charAt(0) === "/") {
        target.path = removeDotSegments(relative.path);
      } else {
        //target.scheme = base.scheme;
        //target.authority = base.authority;
        //target.userinfo = base.userinfo;
        //target.host = base.host;
        //target.port = base.port;
        target.path = relative.path;
        target.scheme = base.scheme;
        target.fragment = relative.fragment;
        return target;
      }

      const base = parse(serialize(<URIComponents>base, options), options);
      const relative = parse(serialize(<URIComponents>relative, options), options);

      if (typeof base === "string") {
        base = serialize(parse(base, options), options);
      }

      if (typeof relative === "string") {
        relative = serialize(parse(relative, options), options);
      }

      while (relative.path) {
        //remove segments from relative path
        if (relative.path.charAt(0) === "/") {
          relative.path = relative.path.slice(1);
        } else {
          //remove segments from relative path
          if (base.path) {
            if (base.path.length < relative.path.length) {
              base.path = base.path.slice(0, base.path.lastIndexOf(\"\") + 1);
            }
          }
        }
      }

      //merge components
      target.scheme = base.scheme;
      target.authority = base.authority;
      target.userinfo = base.userinfo;
      target.host = base.host;
      target.port = base.port;
      target.path = relative.path;
      target.scheme = base.scheme;
      target.fragment = relative.fragment;
      return target;
    }

    if (relative.path) {
      target.path = removeDotSegments(relative.path);
    } else {
      //target.scheme = base.scheme;
      //target.authority = base.authority;
      //target.userinfo = base.userinfo;
      //target.host = base.host;
      //target.port = base.port;
      //target.path = base.path;
      target.scheme = base.scheme;
      target.fragment = relative.fragment;
      return target;
    }

    //normalize base function
    //resolveComponents(baseURI:string, relativeURI:string, options?:URIOptions):string:
    //parse(baseURI):string;
    //serialize(relativeURI):string;
    //normalize(uri:string, options?:URIOptions):string:
    //normalizeComponents():string:
    return target;
  }

  return target;
}

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
  const schemelessOptions = assign({ scheme : 'null' }, options);
  return serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);
};

export function normalize(uri:string, options?:URIOptions):string;
export function normalize(uri:URIComponents, options?:URIOptions):URIComponents;
export function normalize(uri:any, options?:URIOptions):any {
  if (typeof uri === "string") {
    uri = serialize(parse(uri, options), options);
  } else if (typeof uri === "object") {
    uri = serialize(<URIComponents>uri, options), options);
  }

  return uri;
}

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

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

  return (typeof uriA === "string" && uriA === uriB) || (typeof(uriA) === "object" && equal(<URIComponents>uriA, <URIComponents>uriB, options));
}
function(codePoint) {  
    if (codePoint - 0x30 < 0x0A) {  
        return codePoint - 0x16;  
    }  
    if (codePoint - 0x41 < 0x1A) {  
        return codePoint - 0x41;  
    }  
    if (codePoint - 0x61 < 0x1A) {  
        return codePoint - 0x61;  
    }  
    return base;  
}  

/**  
 * Converts a digit/integer into a basic code point.  
 * @param {Number} digit The numeric value of a basic code point.  
 * @returns {Number} The basic code point whose value (when used for\n * representing integers) is 'digit', which needs to be in the range\n * '0' to 'base - 1'.  
 * If 'flag' is non-zero, the uppercase form is is\n * used; else, the lowercase form is used.  
 * The behavior is undefined\n * if 'flag' is non-zero and 'digit' has no uppercase form.\n */  
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);  
};  

/**  
 * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n */  
const adapt = function(delta, numPoints,  
    firstTime) {  
    let k = 0;  
    delta = firstTime ? floor(delta / damp) : delta >> 1;  
    delta += floor(delta / numPoints);  
    for (/* no initialization */; delta > baseMinusTMin * tMax >> 1;  
        k += base) {  
        delta = floor(delta / baseMinusTMin);  
    }  
    return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));  
};  

/**  
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n */  
const decode = function(input) {  
    // Don't use UCS-2:\n *\n *\n *\n *\n */  
    const output = [];  
    let i = 0;  
    let n = initialN;  
    let bias = initialBias;  

    // Handle the basic code\n *\n */  
    let basic = input.lastIndexOf(delimiter);  
    if (basic < 0) {  
        basic = 0;  
    }  
    for (let j = 0; j < basic; ++j) {  
        if (input.charCodeAt(j) >= 0x80) {  
            error('not-basic');  
        }  
        output.push(input.charCodeAt(j));  
    }  

    // Main encoding loop:\n *\n */  
    while (handledCPCount < inputLength) {  
        // All non-basic code points < n have been handled already.\n */  
        if (firstTime) {  
            output.splice(i++, 0, n);  
        }  
    }  

    return String.fromCodePoint(...output);  
};  

/**  
 * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n */  
const encode = function(input) {  
    const output = [];  
    input = ucs2decode(input);  

    // Cache the length.  
    let inputLength = input.length;  
    let delta = 0;  
    let bias = initialBias;  

    // Handle the basic code points.  
    for (const currentValue of input) {  
        if (currentValue < 0x80) {  
            output.push(stringFromCharCode(currentValue));  
        }  
    }  

    // Finish the basic string with a delimiter unless it's\n */  
    if (input.length) {  
        output.push(delimiter);  
    }  

    // Main encoding loop:\n */  
    while (handledCPCount < inputLength) {  
        if (firstTime) {  
            output.splice(i++, 0, n);  
        }  
    }  

    return String.fromCharCode(...output);  
};
Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycode parts of the input will be converted, i.e. \n it doesn't matter if you call it on a string that has already been converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycode domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n  return mapDomain(input, function(string) {\n    return regexPunycode.test(string)\n      ? decode(string.slice(4).toLowerCase())\n      : string;\n  });\n};\n
/**\n * Converts a Unicode string representing a domain name or an email address to Punycode. Only the non-ASCII\n * parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or email address.\n */\nconst toASCII = function(input) {\n  return mapDomain(input, function(string) {\n    return regexNonASCII.test(string)\n      ? 'xn--' + encode(string)\n      : string;\n  });\n};\n
/*-----------------------------------\n---------------------------------------*/

/** Define the public API */\nconst punycode = {\n  /**\n   * A string representing the current Punycode.js version number.\n   * @memberOf punycode\n   * @type String\n   */\n  'version': '2.1.0',\n  /**\n   * An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.\n   * @see <https://mathiasbynens.be/notes/javascript-encoding>\n   * @memberOf punycode\n   * @type Object\n   */\n  'ucs2': {\n    'decode': ucs2decode,
    'encode': ucs2encode
  },\n  'decode': decode,
  'encode': encode,
  'toASCII': toASCII,
  'toUnicode': toUnicode
};\n
export default punycode;
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AAhC,GAA6CT,SAApEuBACwE,IAAX,GAAmBiD,UAaUE,OAaV,CAaKB,IAAIb,MAA4B,CAaC,CAA7B
,GAAiCiH,QAaQ,CaAR,CAaCj,GAa8CT,SAajEuBACwE,IAAX,GAaKBqD,SAaSnH,QAaQ,CaAR,CAaT
,EaAQb,EAARb,CAAIb uBACWN,IAAX,GAaKBM,QAaQ,CAAR,KAAC,EAACEuBACWG,KAAX,GAaaB6G
,UAAUE,OAaV,CAaKB,GAaIB,MAA2B,CAaC,CAA5B,GAaCiH,QAaQ,CaAR,CAaHC,GAa6CT,SAaJEu
BAC2WF,QAA,GAaBiB,B,UAaUE,OAaV,CAaKB,GAaAB,MAA2B,CAaC,CAAC,CAA5B,GAaCiH,QAaQ,CaAR
,CAaHC,GAa6CT,SAaEp;gBAGI0H,MAAMH,WAaW6D,IAAIb,CAAJ,EA4B;2BACbBA,IAAX,GAAmBk
D,UAaU3H,KAaV,CAAGb,+BAABh,JAADmW,QAaQ,CaAR,CAaMD,GAAGET,SAaNF;++YAIEU,WAaW8D,
IAAf,EAaQb;uBAETA,IAAX,GAaKB8C,eAAeC,eAae7G,WAaW8D,IAA1B,EAAGCgC,QAAHC,CAAFF,EAa0
DA,QAA1D,CAAIb;++YAI9G,F,WAaWxB,MAAX,KAAaB,SAaTb,IAAMU,WAaW0F,QAaX,KAaW9F,SA
A3D,IAAIwE,WAaW8D,IAAX,KAaB0E,SAASF,JAAYyG,WAaW8D,IAAX,KAaB0vE,SAAS7H,IAAI0I,CA
CU,WAaWP,IAAd,IAAI8O,WAaWE,KAAX,QAaKBz,SAaLvE,EAAMu uBACtLsG,SAAX,GAaUb,EuABvAS
SD,MAE0,IAAI5F,WAaWxB,MAAX,KAAX,EAAB1b,IAAIb,EAaQb;uBAETCgC,GAAX,GAaUb,EAABv,SAD
M,MAEA,IAAI5F,WAaWfQ,QAaX,KAaW3F,SAASF,EAuAC uBACiCgS,SAAX,GAaUb,EAABv,SADN,MAM
A;uBACKA,SAAX,GAaAb,KAAbV;;++YAIG3G,QAaQ2G,SAAR,IAAIb3G,QAaQ2G,SAAKb,KAASb,QAAS3C,IA
AAuU3D,QAAQ2G,SAAR,KAASb5F,WAaW4F,SAASF,EAuAC uBAC3F1G,KAAX,GAaAmB,WAaWd,KAAX,IA
AABo,bKAABkBD,QAaQ2G,SAAS1b,GAAsC,aAA7E;++YAIXJ,G,GBAAgBRb,QAaQ,CaACW,QAaQT,MAA
R,IAAbKBw,WAaWd,MAAB7,IAAUC,EAAXC,EAa4QWAa5C,EAAR,CAAT;++YAGL,CAACCC,QAASQsD,cAA
T,KAAS4B,CAAC5C,aAAaD,KAACaCA,CAAc4C,aAA7D,CAADJ,EAACEF;++gBAA7EeC,F,WAaW8D,IAAX,KAa
Bo7E,QAaQ2E,UAAR,IAAUBjE,IBAAIAbCA,EAAC1I,EAAC4F;++oBAEvF;++BACQ,E,IAAX,GAaAbPC,
SAASC,OAAT,CAAIb3B,WAaW8D,IAAX,CAaBGd,OAAbB,CAaWBsF,SAASbF,WAaJc,EAaAc8TcWAa9
C,EAAC2DhE,WAaA3D,EAACIBbE,CAAEDE,EEAOyC,CAAP,EAAU;++BACACV,C,KAAX,GAaAmB,WAa
WA,d,KAAAX,IAAOb,EAaEOuCc,AAD3G;++;wCAI0Bzb,UAAB5B,EAaWcg,E,JAAXC,SAXD,MAYO;++wCAEaEBbE
,UAASF,EAaWCbfG,QAaXc;++;YAIGhG,IBAAaIBCA,CAAcAg,KAAbC,EAAC0C,0BAAC3B,KAAD,CAACbE,UAAP
b,EAAaCf,OAACh;++;KA3F3,B,MA6EoEmBACkC,KAAX,GAAmBc,WAaWd,KAAX,IAAObw,EAABvA;++WAGMc,U
AAP;++;AAAC,EAAD,SAAS6F,mBA6B7,E,WAaAAdF,OAAD,EEAA;QAACG6W,G,WAAY7G,QAA
QC,GAaR,KAaGB,KAAbB,GAaWbC,YAAbB,EAaUO,CAACD,YAAdZ,QAACmWb,YAAbO,EAABh;QAaEfW,F,WA
AWO,F,QAAX,KAaWBF,SAAS5B,EAaUb,kBAC5BgB,IAAI,CAAcN,WAaWbF,QAAB1B,kBACU9E,IAAI
C,CAaCC;++;QAQGNN,WAaW8D,IAAX,KAAXoBxE,SAASbE,EAANcM;kBAExBgB,IAAI,CAACaG,eCAACaG,e
EAAe1E,O
OAAnC,WAaW8D,IAAIB,CAAIb,EAACoWcQ,QAACcC,CAAIb,EAACeK,EAAC4F,OAA5E,CAAoEF,F,SAAS
SC,WAAC7F,UAACE0G,UAACEaC,CAAD,EAAli,EAAl,EAACQCEAAR;MBAbE,MAAMD,EAAN,IAAIYC,KA
AQ,EAABG,kBAC9B,B,IAAC0B,OAACf,CAACf,QAACQG,OAAB3G,WAaW6D,IAAIAb,KAA2B,QAAN
//,EAACykBBAC9BvD,IAAI,CAAC,eGAFA;kBACUA,IAAI,CAACeN,WAaW6D,IAAX,CAACBG,EAAbH,CAAY
B,EAAz2B,CAAz2C;++WAGMBY,UBAAUnF,MAAV,GAAMBBmF,UAADUpF,IAAE,CAAE,CAAbN,BAAbWd,SA
AC;++;AAAC,EAAD,IAAMnH,UAABU,AAAC;AAEJD,MAAMD,OAaOa,AAAb;AAAC,IAAMD,OAAbOAa;AAAb;
AAAC,AAAMAFF,OAAMO,WAABB,UAAAB;AAEA,AAA,AAA,AAAHb,IBAAIA,CAAKC,KAaIC,EEAA;QAACOF,SAAUb,E
AA7B;WAaEOE,MAAAM9F,MAAbE,EAAbQ;YAChB8F,MAAMG,KAAAN,CAAYqH,IAAI,CAAJ,EAAbE,uBAAbC
MN,MAAM3F,OAAN,CAACcG,IAAd,EAAP,F,EAAPb,CAAR,CAADD,MAEO,IAAIaIN,MAAMG,KAAN,CAAYOH,IAA
Z,CAAIJ,EAAbE,MAaCB,MAAM3F,OAAN,CAACgG,IAAd,EAAbbG,GAaPb,CAAR,SAADM,MAEA,IAAIIL,MA
AM,GK,KAAN,CAAYmHIAAZ,CAIAbE,uBAACb,MAAM3F,OAAN,CAACcF,IAAd,EAAbE,GAaPb,CAAR,mBA
COD,GAAP,SAFAAM,G,IAAIH,UAAN,GAAV,IAAIbB,UAABU,IAAIbE,EAABqC;0BACNc,EAAR,SAAD
MA,MEAA;gBACAC,kBACk,MAAMG,K,KAAN,CAAYiH,IAAZ,CAACg;gBACID,EAAl,EAACQg;0BACDC,IAAI
W,GAAH,CAACv;uBAACQD,MAAMpE,KAAN,CAAY0D,EAAlgF,MAAd,CAAR:uBACOC,IAAP,CAAY
mF,CAACZ:zAHD,MAIOsEBACa,IAAI5,KAACU1,CAACV,CAAN;++;WAKD,OAAD7F,IAAP,CAAY,EAZ
AC;++;AAAC,EAAD,AAA,AAA,AAARa,AAA,CAAOBL,UAAB1B,EAAC;QAADF,OAAPd,EAaEyE,EAACAE;++;QA
COCG6W,G,WAAY7G,QAAACQ,GAAR,GAACyC,YAAd,GAAB6D,YAAJ,QACmWb,YAAO,EAABh;QAAGMT7G,f
BAaGCb,QAAC,CwCAACQ,QAATQ,MAAR,IAAIbB,WAaWxb,MAAB7,IAAucCEA,EAAC4CwQAAC5C,EAAR
,CAAIbT;++;QAqGIW,uBAABCA,CAAcC,SAAnC,EAAC8D,cAAAc,C,SAAd,CAABW1,UAABE,EAaCt,OAApC
;QAE1C,C,WAaW8D,IAAI,EAACQb;++;YAEHbGC,SAASC,WAAT,CAACbQ,IAArb,C,CAAb0B,WAaW8D,IAAAR,C
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Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map
No license file was found, but licenses were detected in source scan.

```javascript
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": {
            "modules": false
          }
        }
      ],
      "plugins": ["external-helpers"],
      "externalHelpers": false
    })
  ],
  dest  : "dist/es5/uri.all.js",
  sourceMap: true,
  banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */"
}
```

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1.27 webcolors 1.7

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6.26.0
1.33 regenerator-transform 0.10.1

1.34 postcss-value-parser 3.3.0

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1.37 et-xmlfile 1.0.1

1.38 babel-helper-replace-supers 6.24.1

1.39 pycparser 2.19

1.39.1 Available under license:

pycparser -- A C parser in Python

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1.40 micromatch 2.3.11

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1.42 openssl 1.1.1n

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1.46 text-table 1.6.2

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1.48 babel-plugin-transform-es2015-modules-systemjs 6.24.1

1.49 crypto-browserify 3.12.0
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1.50 babel-helper-get-function-arity 6.24.1

1.51 amqp 2.5.2

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

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1.59 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.60 json5 0.5.1
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1.62 icss-replace-symbols 1.1.0
1.62.1 Available under license :
ISC

1.63 has-ansi 2.0.0
1.63.1 Available under license :
# has-ansi ![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)(https://travis-ci.org/sindresorhus/has-ansi)

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

```bash
## Install

```
## Usage

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

hasAnsi('\u001b[4mcake\u001b[0m');
//=> true

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

## Related

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

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1.64 babel-plugin-transform-es2015-modules-commonjs 6.26.0

1.65 path-is-absolute 1.0.1

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1.66 babel-template 6.26.0

1.67 squashfs-tools 4.4

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1.69 pytz 2018.5-2.ph3

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1.70 tcpdump 4.9.3

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1.71 babel-polyfill 6.26.0

1.72 open-ldap 2.4.48

1.73 regenerator-runtime 0.11.1

1.74 jquery-ui 1.12.1

1.75 zope-interface 4.6.0

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1.76 js-tokens 3.0.2

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1.78 miller-rabin 4.0.1

1.79 log-rotate 3.15.1

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Version 3, 29 June 2007

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* 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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1.112 backbone-computedfields 0.0.12

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1.114 debug 2.6.9

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1.115 normalize-path 2.1.1

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1.116 python-pip 19.2.3
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

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

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

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

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
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  * Basic-authenticated HTTPSCconnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Better unicode support for filepost using StringIO buffers

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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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

* Bryce Boe <bbzbryce@gmail.com>
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  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
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* 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>
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* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* 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 <sethmielarson@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 vending

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

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

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.
* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

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

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

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

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

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

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

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

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

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

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

### 1.128 readdirp 2.1.0

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1.131 pep517 0.7.0

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1.132 paramiko 2.7.2

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1.133 backbone 1.3.3

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1.134 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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1.135 babel-messages 6.23.0

1.136 regexpu-core 1.0.0

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1.137 python-ldap 3.1.0

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1.138 lua 5.1.5

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1.139 minimalistic-crypto-utils 1.0.1

1.140 babel-plugin-transform-es2015-destructuring 6.23.0

1.141 python 3.8.2
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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...
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1.143 plotly-js-basic-dist 1.44.1

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1.144 style-loader 0.21.0

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1.145 pvutils 1.0.12

1.146 babel-helper-hoist-variables 6.24.1

1.147 is-extendable 0.1.1

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1.148 stunnel 5.56
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1.162 babel-plugin-check-es2015-constants
6.22.0

1.163 wrappy 1.0.2
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1.164 python-certifi 2019.11.28

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1.165 pygments 2.2.0

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### 1.166 md5js 1.3.4

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maintaining it in 1993. This list is known to be incomplete--if 
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Hutchings, Ben
Iрганг, Ерик
Jackson, Брайан
Jackson, JOHN R.
Jackson, RICHARD L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
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Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
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King, Dale
King, Michael
Klyachkin, Andrey
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Marchionna, Michael D.
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Smith, Andy
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Soulen, Steven
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Spradling, Cloyce D.
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Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
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1.168 dcron 4.5

1.169 paramiko 2.6.0

1.169.1 Available under license:

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1.175 ptyprocess 0.6.0

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1.176 busybox 1.31.1

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1.179 python-requests 2.22.0

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1.182 channels-redis 2.4.2

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1.185 babel-plugin-transform-es2015-shorthand-properties 6.24.1

1.186 python-dateutil 2.8.1-2.ph4

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-----------------------------------------------

dateutil - Extensions to the standard Python datetime module.

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1.187 ldap-filters 2.2.2

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1.188 isodate 0.6.0

1.188.1 Available under license:

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Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:

ISO 8601 date/time parser

.. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
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This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.)
Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

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

Currently there are four parsing methods available.
- parse_time:
  parses an ISO 8601 time string into a *time* object
- parse_date:
  parses an ISO 8601 date string into a *date* object
- parse_datetime:
  parses an ISO 8601 date-time string into a *datetime* object
- parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration* object.
- parse_tzinfo:
  parses the time zone info part of an ISO 8601 string into a *tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta* does not handle years and months, this module provides a *Duration* class, which can be used almost like a *timedelta* object (with some limitations). However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each *xxx_isoformat* method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by *datetime.isoformat*:

- time_isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
- date_isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
- datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
- duration_isoformat:
  Intended to create ISO duration strings with default format
*PnnYnnMnnDTnnHnnMnnS*.
* tz_isoformat:
    Intended to create ISO time zone strings with default format
    *hh:mm*.
* strftime:
    A re-implementation mostly compatible with Python's *strftime*, but
    supports only those format strings, which can also be used for dates
    prior 1900. This method also understands how to format *datetime* and
    *Duration* instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or
*distribute* available, you can also use *easy_install*.

Limitations:
------------

* The parser accepts several date/time representation which should be invalid
  according to ISO 8601 standard.

  1. for date and time together, this parser accepts a mixture of basic and extended format.
     e.g. the date could be in basic format, while the time is accepted in extended format.
     It also allows short dates and times in date-time strings.
  2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of
     1901-01-01.
  3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
---------------------

The doc strings and unit tests should provide rather detailed information about
the methods and their limitations.

The source release provides a *setup.py* script,
which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`_.

CHANGES
=======

0.6.0 (2017-10-13)

------------------
- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
------------------
- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)
------------------
- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
------------------
- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to timedelta

0.4.9 (2012-10-30)
------------------
- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
------------------
- fixed incompatibility of unitests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
------------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
------------------
- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
------------------
- made setuptools dependency optional

0.4.4 (2011-04-16)
------------------
- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
------------------
- Fixed problem with %P formating and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
------------------
- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
------------------
- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
------------------
- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
------------------
- Initial release

TODOs
=====
This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

**Missing features:**
-----------------

* time formatting does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

**Documentation:**
-------------

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
  and vice versa.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? ("<http://www.w3.org/TR/xmlschema-2/#duration-order>"
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years ]-inf,+inf]

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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1.189 django-import-export 1.0.1

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1.190 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.191 arr-diff 2.0.0

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1.192 isarray 1.0.0

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Found in path(s):
* /opt/cola/permits/1110632783_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

1.193 python-certifi 2019.09.11

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

cia-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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@(#) SRCsfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $
1.194 commander 2.15.1

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1.195 diff-match-patch 20121119

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1.196 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
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
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1.208 babel-plugin-transform-es2015-sticky-regex 6.24.1

1.209 object.assign 4.1.1

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1.210 start-stop-daemon 1.18.10

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1.225 python-certifi 2019.06.16

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It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php_curl, or with
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1.227 simplesgeneric 0.8.1

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Development Status :: 6 - Mature
Development Status :: 7 - Inactive
Intended Audience :: Developers
License :: OSI Approved :: Zope Public License
Programming Language :: Python
Programming Language :: Python :: 2
Programming Language :: Python :: 2.4
Programming Language :: Python :: 2.5
Programming Language :: Python :: 2.6
Programming Language :: Python :: 2.7
Programming Language :: Python :: 3
Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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Metadata-Version: 1.0
Name: simplesgeneric
Version: 0.8.1
Summary: Simple generic functions (similar to Python's own len(), pickle.dump(), etc.)
Home-page: http://cheeseshop.python.org/pypi/simplesgeneric
Author: Phillip J. Eby
Author-email: peak@eby-sarna.com
License: ZPL 2.1
Description: * New in 0.8: Source and tests are compatible with Python 3 (w/o `setup.py`)  
  * 0.8.1: setup.py is now compatible with Python 3 as well  
  * New in 0.7: `Multiple Types or Objects`  
  * New in 0.6: `Inspection and Extension`, and thread-safe method registration

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

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

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

Usage
-----

Defining and using a generic function is straightforward::

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

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

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

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

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

>>> move(2101, "war")
In AD 2101, war was beginning.
How are you gentlemen!!
All your base are belong to us.

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

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

Inheritance and Allowed Types
-----------------------------

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

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

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

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

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

Methods defined for supertypes are inherited following MRO order::

```python
>>> class MyClass(str):
...     """String subclass""
```

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

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

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

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

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

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

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

```python
>>> @generic
... def isbuiltin(ob):
...     return False

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

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

Defaults and Docs
-----------------
You can obtain a function's default implementation using its `default`
attribute::

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

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

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

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

### Inspection and Extension

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

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

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

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

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

You can create a generic function that "inherits" from an existing generic

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function by calling `generic()` on the existing function:

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

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

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

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

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

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

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

Limitations
-----------

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

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

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

These restrictions may be lifted in later releases, if I feel the need. They would require runtime code generation the way I do it in `RuleDispatch`,

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however, which is somewhat of a pain. (Alternately I could use the
``BytecodeAssembler`` package to do the code generation, as that's a lot easier
to use than string-based code generation, but that would introduce more
dependencies, and I'm trying to keep this simple so I can just
toss it into Chandler without a big footprint increase.)

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

Platform: UNKNOWN
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Classifier: Operating System :: OS Independent
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Found in path(s):
* /opt/cola/permits/1156186189_1619141878.57/0/simplegeneric-0.8.1-4.zip/simplegeneric-0.8.1/PKG-INFO
* /opt/cola/permits/1156186189_1619141878.57/0/simplegeneric-0.8.1-4.zip/simplegeneric-0.8.1/simplegeneric.egg-info/PKG-INFO

**1.228 babel-plugin-transform-es2015-unicode-regex 6.24.1**

**1.229 zeep 2.5.0**

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Parts of the XSD handling are heavily inspired by soapfish, see:
https://github.com/FlightDataServices/soapfish

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1.230 pyopenssl 19.1.0
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1.232 gojsonpointer

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1.234 babel-types 6.26.0

1.235 filename-regex 2.0.1
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1.237 postcss-modules-scope 1.1.0

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1.238 fs.realpath 1.0.0

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1.239 schema-utils 0.4.7

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1.240 fast-json-stable-stringify 2.0.0

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1.241 python3-asn1crypto 0.24.0

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1.242 babel-plugin-transform-es2015-modules-amd 6.24.1

1.243 gmp 6.1.2

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1.245 docker-containerd 1.2.12

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

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1.252 mpdecimal 2.4.2

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1.253 graceful-fs 4.1.11

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1.255 taglib 0.12.1

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1.271 babel-cli 6.26.0

1.272 msgpack 0.6.1

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* /opt/cola/permits/1173511536_1623677574.15/0/msgpack-0-6-1-sources-1-
  jar/org/msgpack/type/TrueValueImpl.java
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1.273 docker-pycreds 0.4.0

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1.274 Iodash 4.17.4

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1.275 openpyxl 2.5.6

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Metadata-Version: 1.2
Name: openpyxl
Version: 2.5.6
Summary: A Python library to read/write Excel 2010 xlsx/xlsm files
Home-page: https://openpyxl.readthedocs.io
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Description: .. image:: https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default
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   :alt: coverage status

Introduction
------------

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

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

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

Mailing List
------------

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

Sample code::

    from openpyxl import Workbook
    wb = Workbook()

    # grab the active worksheet
    ws = wb.active

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

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

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

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

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

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

* installation methods
* code examples
* instructions for contributing


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
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Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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*/opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/LICENCE.rst

1.276 anymatch 1.3.2

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1.277 repeat-element 1.1.2

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1.278 punycode 1.4.1

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1.279 babel-plugin-transform-es2015-arrow-functions 6.22.0

1.280 libvmtools 10.3.5.7752

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1.281 open-vm-tools 10.3.5-10430147

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.282 bridgeutils 1.6.0

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**1.283 service-identity 18.1.0**

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1.284 regjsgen 0.2.0

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1.285 python-certifi 2019.9.11

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cacert.crt -- Bundle of CA Root Certificates

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1.287 websocket-client 0.40.0

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1.293 hmac-drbg 1.0.1

1.294 docker-cli 19.03.5
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Protocol Buffers for Go with Gadgets

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package engine
import (  
"bytes"
)
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
01  owner1       productid1  2020-01-01 10:00:00 +0000 UTC   compstring
02  owner2       productid2  2020-01-01 10:00:00 +0000 UTC   compstring
        },
        {
            formatter.Context{Format: NewSubscriptionsFormat("table", true)},
            `1:License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01

2:License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01

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

        },
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},

`OWNER
owner1
owner2`

// Raw Format


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",
            }
        },
    }
    ...
}
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",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            {
                Num: 2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID: "id2",
                    Name: "name2",
                    ProductID: "productid2",
                    Expires: &expiration,
                    PricingComponents: model.PricingComponents{
                        &model.SubscriptionPricingComponent{
                            Name: "nodes",
                            Value: 20,
                        },
                    },
                    ComponentsString: "compstring",
                },
            },
        }
    }
    out := &bytes.Buffer{}
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}

func TestSubscriptionWriteContext(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",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    out := &bytes.Buffer{}
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}
Name: "name1",

ProductID: "productid1",

Expires: &expiration,

PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 10,
  },
  },
ComponentsString: "compstring",
},

Num: 2,

Owner: "owner2",

Subscription: model.Subscription{
  ID: "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name: "nodes",
      Value: 20,
    },
    },
ComponentsString: "compstring",
},

eXpectedJSONs := []map[string]interface{}{
  {
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{}
    map[string]interface{}{
      "name": "nodes",
      "value": float64(10),
    },
    "ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner":
"owner2",
"ComponentsString": "compstring",
"Expires":
"2020-01-01T10:00:00Z",
"DockerID":
"",
"Eusa":
nil,
"ID":
"id2",
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}

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out := &bytes.Buffer{}  
if err != nil {  
t.Fatal(err)  
}  
for i, line := range strings.Split(strings.TrimSpace(out.String()),"
") {  
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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SOFTWARE.

package licensing

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

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

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

    return license, nil
}

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

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

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

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

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }
}
key := keys[0]

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

payload, err := signature.Payload()
if err != nil {
    return nil, errors.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
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        })
    }
    return []byte(decoded), nil
}
}, "decoding license authorization failed")
}
return decoded, nil
}
// All of the functions in this file assume that they are receiving a properly
// formatted private key.
// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedToken, err := generateToken(message, privateKey)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
if !hmac.Equal(tokenBytes, generatedBytes) {
return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}
return nil
}
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
return "", errors.Wrap(err, errors.Fields{"msg": message})
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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metrics from the pseudo-filesystem proc.

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

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

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

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

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

    return true, ""
}

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package engine

import (
    "time"

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

const (  
defaultSubscriptionsTableFormat = "table
{ {Num} }\n{ {Owner} }\n{ {ProductID} }\n{ {Expires} }\n{ {ComponentsString} }")

defaultSubscriptionsQuietFormat = "{ {Num} }\n{ {Summary} }"

numHeader = "NUM"
// 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,
        }
    }
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
    }
"DockerID": dockerIDHeader,
"ProductID": productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}
func (c *licenseContext) Num() int {
return c.l.Num
}
func (c *licenseContext) Owner() string {
return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}
func (c *licenseContext) Summary() string {
return c.l.String()
}
func (c *licenseContext) Name() string {
return c.l.Name
}
func (c *licenseContext) ID() string {
return c.l.ID
}
func (c *licenseContext) DockerID() string {


return c.l.DockerID
}

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

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

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

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

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

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

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

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

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

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1.296 babel-helper-define-map 6.26.0

1.297 linux-headers 4.9.107
1.297.1 Available under license:
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1.300 flatpickr 4.5.2

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1.301 babel-preset-es2015 6.24.1

1.302 array-unique 0.2.1

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1.307 process-nextick-args 2.0.0

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1.323 psycopg 2.8.4

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1.328 async-each 1.0.1

1.329 randomfill 1.0.4
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1.332 babel-runtime 6.26.0

1.333 des.js 1.0.0

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   (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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1.340 jsonschema 3.0.1

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1.341 python-dockerpty 0.4.1
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6.24.1

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1.346 color-name 1.1.3

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1.349 browserify-des 1.0.2

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1.350 chalk 2.4.2

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1.357 elliptic 6.4.1

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1.363 fdisk 2.35.1

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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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1.369 pyyaml 3.13

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1.371 popt 1.16

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1.373 source-map 0.6.1

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1.374 chardet 3.0.4-2.ph4

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1.375 util-deprecate 1.0.2

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1.376 dockerpty 0.4.1

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1.377 is-posix-bracket 0.1.1

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1.378 css-loader 1.0.1

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1.379 fs-readdir-recursive 1.1.0

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1.380 parse-glob 3.0.4

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1.381 libunistring 0.9.10

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@c End:

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1.386 backgrid 0.3.8

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1.387 babel-generator 6.26.1

1.388 pep517 0.5.0

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

1.390 babel-plugin-transform-es2015-computed-properties 6.24.1

1.391 jquery 3.5.1

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1.394 babel-helper-function-name 6.24.1

1.395 fastparse 1.1.1
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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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

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

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

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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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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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1.397 coreutils 8.31

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1.407 supports-color 2.0.0

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

> Detect whether a terminal supports color

## Install

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

## Usage

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

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

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

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

## Related

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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1.411 pyasn1 0.4.7

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ASN.1 library for Python

------------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

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

Why using pyasn1
-----------------
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

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

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

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

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

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

Could be expressed in pyasn1 like this:

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

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

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

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

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

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

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

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

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

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

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/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/README.md

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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/compat/test_univ.py
* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/univ.py
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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/decoder.py
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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) 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/protobuf>` or `FlatBuffers <https://google.github.io/flatbuffers>` for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

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

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

ASN.1 applications

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

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

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

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

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

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

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

   /example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

   /download

Changes
-------

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

.. toctree::
:maxdepth: 1

/changelog

License
-------

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

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/license

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

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1
--------------

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

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by
  Olivier Dubuisson
  Prof John Larmouth

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:

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

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1.426 micromatch 2.3.11

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* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/sheet.py
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* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/examples/xlrdnameAPIdemo.py
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1.428 output-file-sync 1.1.2

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1.437 babel-helper-optimise-call-expression

6.24.1

1.438 libyaml 0.2.2

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1.439 browserify-cipher 1.0.1

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1.440 pytzdata 2019.1

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[1.441 backgrid-filter 0.3.7]

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1.442 syslinux 6.03

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1.443 xlwt 1.3.0

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1.444 arr-flatten 1.1.0

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1.445 lodash 4.17.11

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1.446 is-number 2.1.0

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1.447 runc 1.0.0-rc10
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ASN.1 library for Python
-----------------------
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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
>>> 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
```

```python
>>> 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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**ASN.1 library for Python**

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Abstract Syntax Notation One (`ASN.1` <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>_ is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

**What is ASN.1**

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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

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

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

ASN.1 gotchas

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

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

Documentation
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.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
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.. toctree::
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/example-use-case

Download & Install
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/download

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

.. toctree::
:maxdepth: 1

/changelog

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.. toctree::
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/license
Getting help

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Books on ASN.1

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

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

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.

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0.4.4.1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst`

1.449 fast-deep-equal 2.0.1

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1.450 lvm2 2.02.185

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1.451 is-glob 2.0.1

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1.452 moment-duration-format 2.2.2

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1.453 libfastjson 0.99.8

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1.454 is-finite 1.0.2

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1.455 libpcap 1.9.1

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1.456 babel-plugin-transform-es2015-object-super 6.24.1
1.457 libsodium 1.0.18

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1.458 mkdirp 0.5.1

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1.459 docker-proxy

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1.464 repeat-string 1.6.1

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1.465 hash-base 3.0.4

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1.467 glob 7.1.2

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1.468 babel-helper-call-delegate 6.24.1

1.469 kind-of 3.2.2

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1.470 fastclick 1.0.6

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### 1.471 lua-cjson 2.1.0

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### 1.472 docker-engine 19.03.5

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Protocol Buffers for Go with Gadgets

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

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

1.476 babel-plugin-transform-es2015-
parameters 6.24.1

1.477 async-timeout 3.0.0
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  <xsl:value-of select="$isc.copyright.leader" />
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))" />
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')" />
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest" />
    </xsl:call-template>
  </xsl:if>
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1.486 convert-source-map 1.5.1

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