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1.6 is-finite 1.0.2

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1.8 pyasn1 0.4.4-1.ph3
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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
}
```

---

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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
>>> str(record)
Record:
id=123
room=321
>>> str(record)
Record:
id=123
room=321
```

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

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

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

```python
from pyasn1.codec.der.decoder import decode
received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
for field in received_record:
    print('{} is {}'.format(field, received_record[field]))
    id is 123
    room is 321
    house is 0

record == received_record
True
received_record.update(room=123)
substrate = encode(received_record)
hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

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

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

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

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

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

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

How to get pyasn1
-----------------

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

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

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

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/pyasn1/codec/native/decoder.py
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 it was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions 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 or FlatBuffers, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

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

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

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

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

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)
ASN.1 gotchas
-------------

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

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

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

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

   /example-use-case

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

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   /download

Changes
-------

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

.. toctree::
   :maxdepth: 1

   /changelog
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Getting help
------------

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/asnl/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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1.9 ldap-filter 0.2.1

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1.11 punycode 2.1.1

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1.15 binary-extensions 1.11.0
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1.17 plotly-js-basic-dist 1.44.1

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[1]: http://eligrey.com

1.20 gsap 1.20.3

1.21 regenerator-runtime 0.10.5
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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


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1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

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

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```
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Ty Coon, President of Vice
1 April 1990
```

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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1.24 zlib 1.2.11

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1.26 backcall 0.1.0

1.27 django-auth-ldap 1.7.0

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1.30 backgrid-filter 0.3.7

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1.31 fill-range 2.2.3

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

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https://github.com/golang/protobuf

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

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1.45 arr-diff 2.0.0

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1.46 babel-core 6.26.0

1.47 babel-types 6.26.0

1.48 escape-string-regexp 1.0.5
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1.51 babel-register 6.26.0

1.52 style-loader 0.21.0

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1.53 pytz 2018.5-2.ph3

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1.54 regjsgen 0.2.0

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Protocol Buffers for Go with Gadgets

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1.66 async-each 1.0.1

1.67 python-requests 2.22.0

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1.69 babel-plugin-check-es2015-constants
6.22.0

1.70 libvmtools 10.3.5.7752

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1.96 repeat-string 1.6.1

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1.97 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 */
/* * details. */
/* */
/* */
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*
* M. Welsh, 6 July 1996
*
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# URL.js

URL.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.

URL.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

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

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

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

### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ro\"></a>) === "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)]
* `mailto` [[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)]
* `urn` [[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)]
* `urn:uuid` [[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)]

### HTTP Support

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

### Mailto Support

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

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

### URN Support

```
URI.parse("urn:example:foo");
```
### 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:

```
npm install uri-js
```

Then, in your code, load it using:

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

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/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
No license file was found, but licenses were detected in source scan.

{"version":3,"sources":["../src/util.ts","../src/regexps-uri.ts","../node_modules/punycode/punycode.es6.js","../src/uri.ts","../src/schemes/mailto.ts","../src/regexps-iri.ts","../src/schemes/http.ts","../src/schemes/urn.ts","../src/schemes/urn-uuid.ts","../index.ts"],"names":["merge","sets","Array","_len","_key","arguments","length","slice","xl","x","join","subexp","str","typeof","o","undefined","Object","prototype","toString","call","split","pop","shift","toUpperCase","toLowerCase","toUpperCamel","toArray","obj","setInterval","assign","target","source","key","buildExp","isIRI","HEXDIG$$","PCT_ENCODED$$","SUB_DELIM$$","RESERVED$$","UCSCHAR$$","DEC_OCTET_RELAXED$$","H16$$","
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(counter < length) {\n\tconst value = string.charCodeAt(counter++);\n\tif (value >= 0xD800 & & value <= 0xDBFF & & counter < length) {\n\t\tconst extra = string.charCodeAt(counter++);\n\t\tif (extra & 0xF000) == 0xDC00) { // Low surrogates\n\t\t\toutput.push(((value & 0x3FF) + extra & 0x3FF) + 0x10000);\n\t\t\t\tcounter--;\n\t\t\t} else {\n\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\t}\n\t\tconst value = string.charCodeAt(counter++);
\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {
\t\tconst extra = string.charCodeAt(counter++);
\t\tif ((extra & 0xFC00) == 0xDC00) { // It's a high surrogate, and there is a next character.
\t\t\toutput.push(((value & 0x3FF) + extra & 0x3FF) + 0x10000);\n\t\t\t\tcounter--;\n\t\t\t} else {\n\t\t\toutput.push(value);\n\t\t\t}\n\t}\n\t\t}\n\t}\n\t}\n\t\}\n\treturn output;
\n\n/**
 * Creates a string based on an array of numeric code points.
 * @see 'punycode.ucs2.decode'
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
\n\nconst ucs2encode = array => String.fromCodePoint(...array);
\n\n/**
 * Converts a basic code point into a digit/integer.
 * @see 'digitToBasic()'
 * @param {Number} codePoint The numeric value of a basic code point.
 * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range '0' to 'base - 1', or 'base' if\n * the code point does not represent a value.
\n\nconst basicToDigit = function(codePoint) {
    if (codePoint - 0x30 < 0x0A) {
        return codePoint - 0x16;
    }
    if (codePoint - 0x41 < 0x1A) {
        return codePoint - 0x41;
    }
    if (codePoint - 0x61 < 0x1A) {
        return codePoint - 0x61;
    }
    return base;
};

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

\n\n/**
 * Bias adaptation function as per section 3.4 of RFC 3492.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
\n\nconst decode = function(input) {
    // Don't use UCS-2;\n    const output = [];
    const inputLength = input.length;
    let i = 0;
    let n = initialN;
    let bias = initialBias;

    // Handle the basic code points: let 'basic' be the number of input code points before the last delimiter, or 0 if there is none, then copy\n    // the first basic code points to the output;\n    const basic = input.lastIndexOf(delimiter);
    if (basic < 0) {
        basic = 0;
    }
    for (let j = 0; j < basic; ++j) {
        output.push(input.charCodeAt(j));
    }

    // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
    for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
        // `index` is the index of the next character to be consumed.
        // Decode a generalized variable-length integer into `delta`, which gets added to `i` each time, so we'll fix that now:\n        // Decode a generalized variable-length integer into 'delta', which gets added to `i`. The overflow checking is easier if we increase 'i' as we go, then subtract off its starting value at the end to obtain 'delta'.\n        \n        const oldi = i;
        let for (let w = 1, k = base; w < inputLength; w++) {\n            const digit = basicToDigit(input.charCodeAt(index++));\n            i += digit * w;
            if (i >= maxInt) {\n                error('overflow');\n            } else {\n                i %= maxInt;
                i += digit * w;
            }
            \n            if (i >= maxInt) {\n                error('overflow');\n            } else {\n                output.push(input.charCodeAt(index++));\n                i += digit * w;
            }
        }
    }
    return String.fromCharCode(...output);
}
string of Unicode symbols (e.g. a domain name label) to a
* Punycode string of ASCII-only symbols.
@memberOf punycode\n* @param {String} input The string of Unicode symbols.\n* @returns {String} The resulting Punycode string of ASCII-only symbols.\n* Anonconst encode = function(input) {\n* const output = [];\n* Convert the input in UCS-2 to an array of Unicode code points.\n* input = ucs2decode(input);\n* Cache the length.\n* inputLength = input.length;\n* Initialize the state.\n* n = initialN;\n* delta = 0;\n* bias = initialBias;\n* Handle the basic code points.\n* for (const currentValue of input) {\n* if (currentValue < 0x80) {\n* output.push(stringFromCharCode(currentValue));\n* }\n* else {\n* const outputLength = inputLength;\n* const basicLength = outputLength;\n* const handledCPCount = basicLength;\n* for (let i = 0; i < inputLength; i++) {\n* const currentValue = input[i];\n* if (currentValue < 0x80) {\n* output.push(stringFromCharCode(currentValue));\n* }\n* else if (currentValue < 0x10000) {\n* output.push((currentValue >> 10) + 0xd800);\n* output.push((currentValue & 0x3ff) + 0xdc00);\n* }\n* else if (currentValue < 0x110000) {\n* output.push((currentValue >> 16) + 0xf000);\n* output.push(((currentValue >> 12) & 0x3ff) + 0x8000);\n* output.push(((currentValue >> 8) & 0x3ff) + 0x8000);\n* output.push((currentValue & 0x3ff) + 0x8000);\n* }\n* }\n* }\n* return output.join('');\n* }\n* const encode = function(input) {\n* const output = [];\n* const outputLength = inputLength;\n* const basicLength = outputLength;\n* const handledCPCount = basicLength;\n* for (let i = 0; i < inputLength; i++) {\n* const currentValue = input[i];\n* if (currentValue < 0x80) {\n* output.push(stringFromCharCode(currentValue));\n* }\n* else if (currentValue < 0x10000) {\n* output.push((currentValue >> 10) + 0xd800);\n* output.push((currentValue & 0x3ff) + 0xdc00);\n* }\n* else if (currentValue < 0x110000) {\n* output.push((currentValue >> 16) + 0xf000);\n* output.push(((currentValue >> 12) & 0x3ff) + 0x8000);\n* output.push(((currentValue >> 8) & 0x3ff) + 0x8000);\n* output.push((currentValue & 0x3ff) + 0x8000);\n* }\n* }\n* return output.join('');\n* }\n* const decode = function(input) {\n* const output = [];\n* const outputLength = inputLength;\n* const basicLength = outputLength;\n* const handledCPCount = basicLength;\n* for (let i = 0; i < inputLength; i++) {\n* const currentValue = input[i];\n* if (currentValue < 0x80) {\n* output.push(stringFromCharCode(currentValue));\n* }\n* else if (currentValue < 0x10000) {\n* output.push((currentValue & 0x3ff) + 0x10000);\n* }\n* else if (currentValue < 0x110000) {\n* output.push((currentValue & 0x3ff) + 0x110000);\n* }\n* }\n* return output.join('');\n* }\n* const toUnicode = function(input) {\n* return decode(input);\n* }\n* const toASCII = function(input) {\n* return encode(input);\n* }\n* const punycode = {\n* version: '2.1.0',\n* toASCII: function(input) {\n* return encode(input);\n* },\n* toUnicode: function(input) {\n* return decode(input);\n* },\n* fromAscii: function(input) {\n* return decode(input);\n* },\n* fromUnicode: function(input) {\n* return encode(input);\n* },\n* toASCII: function(input) {\n* return encode(input);\n* },\n* toUnicode: function(input) {\n* return decode(input);\n* }\n* }\n* export default punycode;\n*/

---

**URI.js**

@fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.

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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;
    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,
    PCT_ENCODED : RegExp,
    IPV4ADDRESS : RegExp,
    IPV6ADDRESS : 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

    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) {
            const c2 = parseInt(str.substr(i + 4, 2), 16);
            newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
            i += 6;
        } else if (c >= 224) {
            const c2 = parseInt(str.substr(i + 4, 2), 16);
            const c3 = parseInt(str.substr(i + 7, 2), 16);
            newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
            i += 9;
        } else {
            newStr += str.substring(i, i + 3);
            i += 3;
        }
    }

    return newStr;
}

function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
    if (components.scheme) components.scheme = String(components.scheme).toLowerCase().replace(protocol.NOT_SCHEME, '');
}

export function decodeUnresolved(str:string):string {
    return decodeURIComponent(str);
}

export function ptcDecChars(str:string):string {
    return decodeURIComponent(unescape(str));
}

export function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
    if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnresolved).toLowerCase();
}

export function normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
    return normalizeComponentEncoding(components, protocol.NOT_SCHEME);
1 ? matches[4] : undefined);`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n"URI is not a \n + options.reference + \n + uriTokens.length ? options.reference & &
"{options.scheme || schemeHandler.unicodeSupport} ? schemeHandler || (schemeHandler & & schemeHandler.domainHost)) `\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n"Unexpected dot segment
condition");`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n"{string} `\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");`\n`\n`\n`\n`\n`\n"{string}");"Open Source Used In Cisco Meeting Management 3.5  522
options);\n
\n
if (components.host) {\n
    try {\n        if (options.iri) \n            components.host = \n                punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n    } \n    catch (e) {\n        components.error = components.error || \"\";\n    }\n}
\n
//normalize encoding\n_normalizeComponentEncoding(components, protocol);


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


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

    if (components.path && components.path.charAt(0) !== "/") {
        uriTokens.push("/");\n    }\n
    if (components.path !== undefined) {
        let s = components.path;

        if (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {
            s = removeDotSegments(s);
        }

        if (authority === undefined) {
            s = s.replace(/^\//, "/%2F");  //don't allow the path to start with "/"\n        }\n
        uriTokens.push(s);
    }\n
    if (components.query !== undefined) {
        uriTokens.push("?");\n        uriTokens.push(components.query);
    }\n
    if (components.fragment !== undefined) {
        uriTokens.push("#");\n        uriTokens.push(components.fragment);
    }\n
    return uriTokens.join("\n");  //merge tokens into a string\n};

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
    }\n
    options = options || {};

    if (!options.tolerant && relative.scheme) {
        target.scheme = relative.scheme;
        \n        target.authority = relative.authority;
        \n        target.userinfo = relative.userinfo;
        \n        target.host = relative.host;
        \n        target.port = relative.port;
        \n        target.path = removeDotSegments(relative.path || "/");
        \n        target.query = relative.query;
        \n        target.fragment = relative.fragment;
    } else {

        if (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {

            target.userinfo = relative.userinfo;
            \n            target.host = relative.host;
            \n            target.port = relative.port;
            \n            target.path = removeDotSegments(relative.path || "/");
            \n            target.query = relative.query;
            \n            target.fragment = relative.fragment;
        } else {

            if (!relative.path) {

                target.path = base.path;
                \n                target.query = relative.query;
            } else {

                target.path = base.path.slice(0, base.path.lastIndexOf("\"\") + 1) + relative.path;
                \n                target.query = relative.query;
                \n                target.fragment = relative.fragment;
            }

            \n            target.host = base.host;

            return target;
        }

        if (!target.scheme) {

            target.scheme = base.scheme;
        }

        \n        target.fragment = relative.fragment;
        \n        return target;
    }\n
};

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {

    const schemelessOptions = assign({\n        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 = parse(serialize(<URIComponents>uri, options), options);
    }

    return uri;
};

export function equal(uriA:string, uriB:string, options?: URIOptions):boolean;
export function equal(uriA:URIComponents,
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$$ = "[A-Za-z0-9-._~\x00-\x7F]";
const HEXDIG$$ = "[0-9A-Fa-f]\x00-\x7F";  //case-insensitive

//RFC 5322, except these symbols as per RFC 6068: @ : / ? # \ ] & ; =
const ATEXT$$ = "[\x21-\x5A\x5E-\x7E]";  //%d33 / %d35-90 / %d94-126
const WSP$$ = "[\x00\x0D\x0A]";  //(%d0 / CR / LF / obs-qtext
const QTEXT$$ = "[\x21-\x5A\x5E-\x7E\x7F]";
const VCHAR$$ = merge(QTEXT$$, "[\\"\\\"]");
const DOT_ATOM_TEXT$ = subexp(ATEXT$$ + "$" + subexp("\\." + ATEXT$$ + "$") + "$"*);
const QUOTED_PAIR$ = subexp("\\\\" + VCHAR$$);
const QCONTENT$ = subexp(QTEXT$$ + "|" + QUOTED_PAIR$);
const QUOTED_STRING$ = subexp('\\"' + QCONTENT$ + "*" + '\\"');
"g");
const NOT_HFVALUE = NOT_HFNAME;
const TO = new RegExp("^" + TO$ + "$");

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

const

function handler:URISchemeHandler<MailtoComponents> = {
  scheme : "mailto",

  parse : function
    const mailtoComponents = MailtoComponents; headers = mailtoComponents.headers =
    headers;

  serialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {
    const components = mailtoComponents as URIComponents;
    const to = toArray(mailtoComponents.to);
    if (to) {
      for (let x = 0, xl = to.length; x < xl; ++x) {
        const toAddr = String(to[x]);
        const atIdx = toAddr.lastIndexOf("@");
        const localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);
        let domain = toAddr.slice(atIdx + 1);

        //convert IDN via punycode
        try {
          domain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));
        } catch (e) {
          mailtoComponents.headers = mailtoComponents.headers || {};
          mailtoComponents.headers["subject"] = unescapeComponent(hfield[1], options);
          mailtoComponents.body = unescapeComponent(hfield[1], options);
          options.toUpperCase = options.toUpperCase || {};
          options.toUpperCase["\", "]\n          Convert to ASCII via punycode: "+ e;\n        } else {
          mailtoComponents.headers = mailtoComponents.headers || {};
          mailtoComponents.headers["subject"] = unescapeComponent(hfield[1], options);
          mailtoComponents.body = unescapeComponent(hfield[1], options);
          options.toUpperCase = options.toUpperCase || {};
          options.toUpperCase["\", "]\n          Convert to ASCII via punycode: "+ e;\n        }
      }
    }
    return components;
}

export default

\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urnuuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}
Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js4f6f600/dist/es5/uri.all.min.js.map
No license file was found, but licenses were detected in source scan.
./src/uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/regexps-iri.ts","../../src/regexpsuri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from
\"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from
\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urnuuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES
} from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst
UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> =
{\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents,
options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as
UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss =
undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
{\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\t\treturn
uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents,
options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as
URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid ||
\"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport
interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport interface
URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Zaz\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" +
PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ +
\")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE =
/^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme :
\"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst
matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as
URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst scheme = options.scheme || urnComponents.scheme ||
\"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme =
`${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler =
SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss =
nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents =

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schemeHandler.parse(urnComponents, options) as URNComponents;\n\nOtherwise, return urnComponents.error || "URN can not be parsed.";\n\nreturn urnComponents;\n\nserialize :\n\nfunction (urnComponents:URNComponents, options:URNOptions):URIComponents {
\nconst scheme =\n\nschemeComponents.scheme || urnComponents.scheme || \n"urn";\n\nif (schemeHandler) {
\nurnComponents.error = urnComponents.error || "URN can not be parsed.";
\nconst schemeHandler = SCHEMES[scheme];\n\nif (schemeHandler) {
\nurnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\nconst nss =\n\nurnComponents.nss;\n\nconst urnComponents.path = \n\n"nss";\n\nreturn\n\n\n\n};\n\nreturn urnComponents;
\n};\n\nserialize :\n\nfunction (urnComponents:URNComponents, options:URNOptions):URIComponents {
\nconst scheme =\n\nschemeComponents.scheme || urnComponents.scheme || \n"urn";\n\nif (schemeHandler) {
\nurnComponents.error = urnComponents.error || "URN can not be parsed.";
\nconst schemeHandler = SCHEMES[scheme];\n\nif (schemeHandler) {
\nurnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\nconst nss =\n\nurnComponents.nss;\n\nconst urnComponents.path = \n\n"nss";\n\nreturn\n\n\n\n};\n\nreturn urnComponents;
\n};
const HFIELDS = new RegExp("^" + HFIELDS2$ + "$");

function decodeUnreserved(str:string):string {
    let decStr = pctDecChars(str);
    return (decStr.match(UNRESERVED) ? decStr : 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(";") : []);
        if (mailtoComponents.path) {
            mailtoComponents.path.split(";").forEach((path) => {
                const pathComponents = path.split("=");
                pathComponents.forEach((component) => {
                    const [name, value] = component.split("=");
                    if (name.toLowerCase() === "to") {
                        to.push(value.split(";").map((addr) => unescapeComponent(addr, options)).join(",")));
                    }
                    if (name.toLowerCase() === "subject") {
                        mailtoComponents.subject = unescapeComponent(value, options);
                    }
                    if (name.toLowerCase() === "body") {
                        mailtoComponents.body = unescapeComponent(value, options);
                    }
                });
            });
        }
        return mailtoComponents;
    },

    serialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {
        let domains = new Set();
        let to = new Set();
        let query = new Map();
        let headers = new Map();

        for (const name in mailtoComponents) {
            if (name.toLowerCase() === "to") {
                to.add(unescapeComponent(mailtoComponents[name], options));
                domains.add(mailtoComponents[name].split("@").pop());
            }
            if (name.toLowerCase() === "subject") {
                mailtoComponents.subject = unescapeComponent(mailtoComponents[name], options);
            }
            if (name.toLowerCase() === "body") {
                mailtoComponents.body = unescapeComponent(mailtoComponents[name], options);
            }
            if (name.toLowerCase() === "query") {
                for (const component of mailtoComponents[name].split("&")) {
                    const [name, value] = component.split("=");
                    headers.set(name, unescapeComponent(value, options));
                }
            }
        }

        return {
            scheme : "mailto",
            to : Array.from(to).join(","),
            subject : mailtoComponents.subject,
            body : mailtoComponents.body,
            query : Array.from(query).join("&"),
            headers : Array.from(headers).join("=")
        };
    }
}

export default handler;
export default handler;

/**
 * URI.js
 *
 * @fileoverview
 * An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.
 * @author <a href="mailto:gary.court@gmail.com">Gary Court</a>
 * @see http://github.com/garycourt/uri-js
 *
 */

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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;
  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: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();

  return e;
}

export function pctDecChars(str:string):string {
  let newStr = "";
  let i = 0;
  let const il = str.length;
  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);
    newStr += pctEncChar(c);
    i += 2;
  }
  return newStr;
}

export default handler;
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```javascript
export function parse(uriString, options) {
  let components = new URIComponents();
  const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
  if (options.scheme !== undefined) {
    uriString = options.scheme + ":" + uriString;
  }
  const matches = uriString.match(URI_PARSE);
  if (matches) {
    components.scheme = matches[1];
    componentsuserinfo = matches[3];
    components.host = matches[4];
    components.port = parseInt(matches[5], 10);
    components.path = matches[6];
    components.query = matches[7];
    components.fragment = matches[8];
    const portNumber = (isNaN(components.port) ? matches[5] : components.port);
    const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];
    if (!options.unicodeSupport && !schemeHandler.unicodeSupport) {
      try {
        components.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());
      } catch (e) {
        components.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;
      }
      normalizeIPv6(normalizeIPv4(components.host, protocol), protocol);
    }
    if (options.reference && options.reference !== "suffix") {
      components.error = components.error || "URI is not a " + options.reference + " reference.";
    }
    if (schemeHandler) {
      schemeHandler.parse(components, options);
    } else {
      components.error = components.error || "URI can not be parsed.";
    }
  }
  return components;
}
```

```javascript
function _recomposeAuthority(components, options) {
  const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
  const uriTokens = [];
  if (components.userinfo !== undefined) {
    uriTokens.push(components.userinfo);
    uriTokens.push("@");
  }
  if (components.host !== undefined) {
    uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => "[" + $1 + ($2 ? "%25" + $2 : "") + "]"));
    uriTokens.push(":");
    uriTokens.push(components.port.toString(10));
  }
  return uriTokens.length ? uriTokens.join("\"\") : undefined;
}
```

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

```javascript
export function
```
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```javascript
relative.query;
			//target.authority = base.authority;
			//targetuserinfo = base.userinfo;
			//target.host = base.host;
			//target.port = base.port;
			//target.scheme = base.scheme;
			//target.fragment = relative.fragment;
			//return target;

			function resolve(baseURI:string, relativeURI:string, options?:URIOptions):any {
				let turi = serialize(parse(baseURI, options), options);
				let turi = resolveComponents(parse(baseURI, options), relativeURI, options);
				let target = target.userinfo || options && options.userinfo ? options.userinfo : turi.userinfo;
				let target = target.host || options && options.host ? options.host : turi.host;
				let target = target.port || options && options.port ? options.port : turi.port;
				let target = target.scheme || options && options.scheme ? options.scheme : turi.scheme;
				let target = target.fragment || options && options.fragment ? options.fragment : turi.fragment;
				return target;
};

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
				let turi = serialize(parse(baseURI, options), options);
				let turi = resolveComponents(parse(baseURI, options), parse(relativeURI, options), options && options.scheme || turi.scheme, true, options && options.schemelessOptions || options.schemelessOptions);
				let target = target.userinfo || options && options.userinfo ? options.userinfo : turi.userinfo;
				let target = target.host || options && options.host ? options.host : turi.host;
				let target = target.port || options && options.port ? options.port : turi.port;
				let target = target.scheme || options && options.scheme ? options.scheme : turi.scheme;
				let target = target.fragment || options && options.fragment ? options.fragment : turi.fragment;
				return target;
};

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):any {
				let turi = serialize(parse(baseURI, options), options);
				let turi = resolveComponents(parse(baseURI, options), parse(relativeURI, options), options && options.scheme || turi.scheme, true, options && options.schemelessOptions || options.schemelessOptions);
				let target = target.userinfo || options && options.userinfo ? options.userinfo : turi.userinfo;
				let target = target.host || options && options.host ? options.host : turi.host;
				let target = target.port || options && options.port ? options.port : turi.port;
				let target = target.scheme || options && options.scheme ? options.scheme : turi.scheme;
				let target = target.fragment || options && options.fragment ? options.fragment : turi.fragment;
				return target;
};

/**
 * A generic error utility function.
 * @private
 * @param {String} type The error type.
 * @returns {Error} Throws a `RangeError` with the applicable error message.
 */
function error(type) {
				throw new RangeError(errors[type]);
};

/**
 * A generic `Array#map` utility function.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} callback The function that gets called for every array item.
 * @returns {Array} A new array of values returned by the callback function.
 */
function map(array, fn) {
				const result = [];
				let length = array.length;
				while (length--)
					result[length] = fn(array[length]);
				return result;
};

/**
 * A simple `Array#map`-like wrapper to work with domain name strings or email addresses.
 * @private
 * @param {String} string The domain name or email address.
 * @param {Function} callback The function that gets called.
 * @returns {Array} A new array of values returned by the callback function.
 */
function mapDomain(string, fn) {
				const parts = string.split('@');
				let result = [];
				let i = 0;
				let length = parts.length;
				while (length--)
					result[i] = fn(parts[i]);
				return result;
};

/**
 * Creates an array containing the numeric code points of each Unicode character in the string.
 * @see `punycode.ucs2.encode`
 * @see https://mathiasbynens.be/notes/javascript-encoding
 */
function ucs2n(str) {
				return ucs2n.mapDomain(str, fn)
					str = str.split('').map(function(char) {
						return char.charCodeAt(0);
					});
				return str;
}
```

Open Source Used In Cisco Meeting Management 3.5 534
@param {String} string The Unicode input string (UCS-2).

*\n
`function ucs2decode(string) {
let output = [];
let counter = 0;
let length = string.length;
while (counter < length) {
let charCodeAt = string.charCodeAt(counter++);
if (charCodeAt >= 0xD800 && charCodeAt <= 0xDBFF) {
let highSurrogate = string.charCodeAt(counter++);
if ((highSurrogate & 0xFC00) == 0xD800) {
if (counter < length) {
let lowSurrogate = string.charCodeAt(counter);
if ((lowSurrogate & 0xFC00) == 0xDC00) {
output.push(((charCodeAt & 0x3FF) << 10) + (lowSurrogate & 0x3FF) + 0x10000);
} else {
output.push(charCodeAt);
}
} else {
output.push(charCodeAt);
}
}
}
return output;
}

`
```javascript
/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a \n * Punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const encode = function(input) {
    const output = [];

    // Convert the input in UCS-2 to an array of Unicode code points.
    input = ucs2decode(input);

    // Cache the length.
    let inputLength = input.length;
    // Initialize the state.
    let n = initialN;
    let delta = 0;
    let bias = initialBias;

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

    let basicLength = output.length;
    let handledCPCount = basicLength;

    // `handledCPCount` is the number of code points that have been handled;
    // `basicLength` is the number of basic code points.

    // Finish the basic string with a delimiter unless it's empty.
    output.push(delimiter);

    while (handledCPCount < inputLength) {
        // All non-basic code points < n have been handled already. Find the next n.
        const m = maxInt;
        for (const currentValue of input) {
            if (currentValue >= n && currentValue < m) {
                m = currentValue;
            }
        }

        // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>.
        // but guard against overflow.
        const handledCPCountPlusOne = handledCPCount + 1;
        const delta = (m - n + floor((maxInt - delta) / handledCPCountPlusOne)) * n;
        let bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
        delta = 0;

        // Represent delta as a generalized variable-length integer.
        let q = delta;
        let t = digitToBasic(q, 0);

        // Convert a Punycode string representing a domain name or an email address
        // back to Unicode.
        Only the Punycode parts of the input will be converted, i.e. in * it doesn't matter if you call it on a string that has already been
        // converted to Unicode.
        return mapDomain(input, function(string) {
            return regexPunycode.test(string)
                ? decode(string.slice(4).toLowerCase())
                : string;
        });
    }

    return output.join('');
};

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

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

    /** Define the public API */
    const punycode = {
        version: '2.1.0',
        ucs2: {
            decode: ucs2decode,
            encode: ucs2encode
        },
        decode: decode,
        encode: encode,
        toASCII: toASCII,
        toUnicode: toUnicode
    };

    export default punycode;
```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';

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

export default {
  entry : "dist/esnext/index.js",
  format : "umd",
  moduleName : "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    }),
    babel({
      "presets": [
        ["latest", {
          "es2015": {
            "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 */
}

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/rollup.config.js
No license file was found, but licenses were detected in source scan.

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Found in path(s):
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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/src/uri.ts
1.110 output-file-sync 1.1.2
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1.112 asn1crypto 0.24.0
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1.113 pyasn1-modules 0.2.2-1.ph3
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1.116 user-home 1.1.1

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1.117 babel-plugin-transform-es2015-template-literals 6.22.0
1.118 convert-source-map 1.5.1
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1.132 fdisk 2.35.1

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1.133 babel-plugin-transform-es2015-spread
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1.134 babel-helper-call-delegate 6.24.1

1.135 util-deprecate 1.0.2

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1.136 color-convert 1.9.1

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1.140 asn1crypto 0.24.0-1.ph3

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1.141 set-immediate-shim 1.0.1

1.142 babel-helper-replace-supers 6.24.1
1.143 json-c 0.99.8

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1.152 babel-code-frame 6.26.0

1.153 json5 1.0.1
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1.156 go 1.13.15

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1.166 readable-stream 2.3.6
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1.167 concat-map 0.0.1

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1.168 python-requests 2.21.0

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1.169 lua 5.1.5

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1.170 elliptic 6.4.1

1.171 postcss 6.0.21

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1.172 async-timeout 3.0.0

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1.173 urllib3 1.25.3
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Audrius Butkevicius <audrius.butkevicius@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

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

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

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

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

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

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

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

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

* Tom White <s6yglez3@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 Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

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

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

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

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

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

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

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

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

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

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

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1.175 prompt-toolkit 3.0.2

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1.176 bzip2 1.0.8

1.177 once 1.4.0

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# 1.181 jQuery 3.5.1

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1.182 babel-polyfill 6.26.0

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Millner, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.
Zolnowsky, John

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

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frederic
Margeviuus, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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1.202 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.203 asn1.js 4.10.1

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1.204 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 https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.205 libyaml 0.2.2

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6.24.1

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1.209 traitlets 4.3.2

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1.214 babel-preset-es2015 6.24.1

1.215 xz 5.2.4

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine

import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
    
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
    "gostest.tools/assert"  
    is "gostest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {  
cases := []struct {  
    context  formatter.Context  
    expected string  
  }{  
    // Errors  
    
    formatter.Context{Format: "{{InvalidFunction}}"},  
    `Template parsing error: template: :1: function "InvalidFunction" not defined`  
    
    formatter.Context{Format: "{{nil}}"},  
    `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command`  
    
    // Table format  
    
    formatter.Context{Format: NewSubscriptionsFormat("table", false)},  
    `NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS`  
    `1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring`  
    `2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring`  
    
    formatter.Context{Format: NewSubscriptionsFormat("table", true)},  
    `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01`  
    `2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01`  
    ``  
  }
}

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<table>
<thead>
<tr>
<th>OWNER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
<td></td>
</tr>
<tr>
<td>owner2</td>
<td></td>
</tr>
</tbody>
</table>

// Raw Format

<table>
<thead>
<tr>
<th>license: id1</th>
</tr>
</thead>
<tbody>
<tr>
<td>name: name1</td>
</tr>
<tr>
<td>owner: owner1</td>
</tr>
<tr>
<td>components: compstring</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>license: id2</td>
</tr>
<tr>
<td>name: name2</td>
</tr>
<tr>
<td>owner: owner2</td>
</tr>
<tr>
<td>components: compstring</td>
</tr>
</tbody>
</table>

// Custom Format

| owner1 |
|        |
| owner2 |

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

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
out = &bytes.Buffer{}  
testcase.context.Output = out  
err := SubscriptionsWrite(testcase.context, subscriptions)  
if err != nil {  
    assert.Error(t, err, testcase.expected)  
} else {  
    assert.Check(t, is.Equal(testcase.expected, out.String()))  
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
    Num: 1,
    Owner: "owner1",
    Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 10,
            },
        }
    },
    ComponentsString: "compstring",
},
{ Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID: "id2",
        Name: "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 20,
            },
        }
    },
    ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
}
map[string]interface{} {
    "name": "nodes",
    "value": float64(10),
},

    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},

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

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
)
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.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

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

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the privateKey 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": generatedToken})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": generatedBytes})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

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

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

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Common libraries shared by Prometheus Go components.

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package model

import "time"

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

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

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

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

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

    return true, ""
}

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package engine

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

const ( defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
// 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,
        }
    }
    return render(licenseCtx)
}
"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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1.231 pyasn1 0.1.9

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1.232 postcss-modules-local-by-default 1.2.0

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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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1.234 babel-plugin-transform-es2015-for-of

6.23.0

1.235 file-loader 1.1.11

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1.238 css-selector-tokenizer 0.7.0

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1.239 backbone 1.3.3

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1.240 parse-glob 3.0.4

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1.241 babel-plugin-transform-es2015-parameters 6.24.1

1.242 pyyaml 5.3
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1.243 moment 2.19.1
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1.244 html5lib 1.0.1

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1.245 schema-utils 0.4.7

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1.246 babel-plugin-transform-es2015-unicode-regex 6.24.1
1.247 libfastjson 0.99.8
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1.248 is-posix-bracket 0.1.1

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1.249 libdnet 1.11

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Advice for new contributors

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

.. admonition:: Basic tools and workflow

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

First steps

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

* **Sign the Contributor License Agreement**

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

* **Triage tickets**

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

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

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

* **Keep old patches up to date**

   Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on
**Write some documentation**

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

.. note::

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

   .. _reports page: https://code.djangoproject.com/wiki/Reports
   .. _CLA: https://www.djangoproject.com/foundation/cla/
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   .. _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`_.


   :doc:`writing-code/submitting-patches`.

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**Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.
**If you're going to engage in a big task, make sure that your idea has support first**

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

**Be bold! Leave feedback!**

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

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

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

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

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

**Be rigorous**

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

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

.. _new-contributors-faq:

FAQ

```
1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**
```
First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

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

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

A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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1.258 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.259 fs.realpath 1.0.0

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1.262 babel-plugin-transform-regenerator 6.26.0

1.263 babel-helper-regex 6.24.1
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1.267 bridgeutils 1.6.0

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1.270 pyasn1-modules 0.2.2

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1.272 babel-generator 6.26.1
1.273 RFC3987 1.3.7

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1.276 hash.js 1.1.5

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1.280 python-dateutil 2.8.1

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1.281 backgrid-paginator 0.3.9

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

1.283 postcss-value-parser 3.3.0
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1.284 urllib3 1.25.6
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSCConnectionPool)

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

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSCConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

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

* p.dobro gost <http://code.google.com/u/@WBRSRlBZDhBFYQB6/>  
* Code review, PEP8 compliance, benchmark fix

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Stanislav Vitkovskiy <stas.vitkovskiy@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

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

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

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

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

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

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

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

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

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

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

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

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl 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 Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

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

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

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

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

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

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

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

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

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

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

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

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1.285 nettle 3.5.1

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Version 3, 29 June 2007

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1.299 lunr 0.7.2

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1.306 jsonschema 3.0.1

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1.315 icss-utils 2.1.0

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

1.317 setuptools-scm 3.3.3

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1.318 soundex 0.2.1

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1.319 urllib3 1.24.2

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# Contributions to the urllib3 project

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* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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

* p.dobrogost <http://code.google.com/u/@WBR5R1BZDhBFQ6B6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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  * Python 3 support

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

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

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

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

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

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

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

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

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

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

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

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

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

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `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]
1.320 js-tokens 3.0.2

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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

1.323 python-dateutil 2.8.1-2.ph4

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1.337 remove-trailing-separator 1.1

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1.338 babel-plugin-transform-es2015-destructuring 6.23.0


1.340 source-map-support 0.4.18

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ASN.1 library for Python

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
>>> received_record == record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

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

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

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

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

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

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

How to get pyasn1
-----------------

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

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

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).
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/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:
* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

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

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

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

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

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

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

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

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

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

.. toctree::
   :maxdepth: 2
Use case
--------

.. toctree::
:maxdepth: 2

/example-use-case

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

.. toctree::
:maxdepth: 2

/changelog

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

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

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`

1.343 pendulum 2.0.4
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1.345 babel-helper-function-name 6.24.1

1.346 backbone 1.2.3

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1.347 diffie-hellman 5.0.3
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1.348 postcss-modules-values 1.3.0
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1.350 idna 2.8

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```python

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {} 
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
    }

```
'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*',
'test_suite': 'tests',
]

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

**1.351 decorator 4.3.0**

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1.353 simplegeneric 0.8.1
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Development Status :: 7 - Inactive
Intended Audience :: Developers
License :: OSI Approved :: Zope Public License
Programming Language :: Python
Programming Language :: Python :: 2
Programming Language :: Python :: 2.4
Programming Language :: Python :: 2.5
Programming Language :: Python :: 2.6
Programming Language :: Python :: 2.7
Programming Language :: Python :: 3
Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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1.354 pygments 2.2.0

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1.357 squashfs-tools 4.4

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1.358 babel-plugin-transform-strict-mode
6.24.1

1.359 netns
2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699
1

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1.360 pyasn1 0.4.7
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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)
```
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))

id is 123
room is 321
house is 0

>>> record == received_record
True

>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)

00000: 30 06 02 01 7B 80 01 7B
```

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

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)

{'id': 123, 'room': 321, 'house': 0}

```

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

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

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 [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

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` library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's ProtoBuffers or 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::
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   /pyasn1/contents

Use case
--------

.. toctree::
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   /example-use-case

Download & Install
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.. toctree::
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Changes
-------

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

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License
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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.
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* configure.ac, Makefile.am: The original versions were derived from the
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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.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
extcept the first one, were first implemented in the Buildtool project.
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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c) Convey individual copies of the object code with a copy of the
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1.368 python-setuptools 40.2.0.post20220315

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1.369 kombu 4.6.7
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1.370 isodate 0.6.0
1.370.1 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

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 totimedelta

0.4.9 (2012-10-30)

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

- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formattig microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)

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

- fixed incompatibility of unittests 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 formating 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 verse.
  - 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
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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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1.372 ajv-keywords 3.4.0

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1.373 postcss-modules-scope 1.1.0

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1.374 css-loader 1.0.1

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1.375 zlib 1.2.3

1.375.1 Available under license:

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

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*/

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1.376 pyasn 0.1.9
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1.377 docker-engine 19.03.5
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Protocol Buffers for Go with Gadgets

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

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1.382 arr-flatten 1.1.0

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1.383 incremental 17.5.0-2.ph4

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1.386 minimalistic-crypto-utils 1.0.1

1.387 cipher-base 1.0.4

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1.388 for-in 1.0.2

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1.389 automat 0.7.0

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1.391 minimalistic-assert 1.0.1

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1.392 ansi-styles 3.2.1

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1.393 xlwt 1.3.0

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1.395 core-util-is 1.0.2

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1.396 loose-envify 1.3.1

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

1.398 go 1.13.8

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1.402 pycparser 2.19

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pycparser -- A C parser in Python

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

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

```javascript
## Install
```
```
$ npm install --save has-ansi
```

```javascript
## Usage
```
```
```
```javascript
//=> 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
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### 1.408 webcolors 1.7

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1.411 expand-range 1.8.2

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1.413 repeat-element 1.1.2
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1.414 log-rotate 3.15.1

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47. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. Michael Shields <shields@tembel.org> USNO clock driver
51. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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1.426 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
Author: See AUTHORS
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Description:.. image:: https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default
   :target: https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default
   :alt: coverage status

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

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xlt/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
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1.427 source-list-map 2.0.1

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1.429 commander 2.15.1

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1.430 supports-color 5.5.0

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1.431 libxml 2.9.10

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1.432 certifi 2019.09.11
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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.
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@(#)$ RCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $

1.433 regenerator-transform 0.10.1

1.434 hiredis 0.2.0
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1.435 emojis-list 2.1.0
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.442 supports-color 2.0.0

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> Detect whether a terminal supports color


```sh
# supports-color

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

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

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

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

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

## Related

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

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1.448 babel-helper-define-map 6.26.0

1.449 packaging 16.8-4.ph2

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1.457 css-selector-tokenizer 0.7.1

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1.458 babel-helper-hoist-variables 6.24.1

1.459 zlib 1.2.8

1.459.1 Available under license:

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   version 1.2.11, January 15th, 2017

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1.460 globals 9.18.0
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1.461 miller-rabin 4.0.1

1.462 billiard 3.6.1.0

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1.463 anymatch 1.3.2

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1.464 netlink

dbc72376c86301bb873c332830857e73c9f701e

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1.465 python-cached-property 1.4.3
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1.466 text-encoding-shim 1.0.4

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1.469 pytzdata 2019.1
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1.471 regexpu-core 1.0.0

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1.472 autobahn 18.9.1

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1.473 is-buffer 1.1.6

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1.474 crypto-browserify 3.12.0

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1.475 object.omit 2.0.1

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1.476 babel-plugin-transform-es2015-
modules-umd 6.24.1

1.477 asn1crypto 1.2.0

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1.478 randomatic 1.1.7

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1.479 websocket-client 0.40.0

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1.485 ms 2.0.0

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1.487 punycode 1.4.1

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1.488 zope-interface 4.6.0

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1.491 to-fast-properties 1.0.3

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1.493 webpack-jquery-ui 2.0.1

1.494 ipython-genutils 0.2.0
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1.496 text-table 1.6.2

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1.497 wcwidth 0.1.7-2.ph3

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1.498 regenerator-runtime 0.11.1

1.499 libdnet 1.11

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

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

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

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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 (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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<td>yes</td>
</tr>
</tbody>
</table>

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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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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History
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