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Text Part Number: 78EE117C99-1195215330

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1.11 zope_event 4.2.0

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1.13 oauth2-client 2.2.0

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1.14 golang-protobuf-extensions v1.0.1

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1.15 json-cpp 1.8.4

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1.16 pytz 2015.4

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1.17 ws4py 0.5.1

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1.18 zope_interface 5.4.0

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1.19 wwidth 0.1.8

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1.20 m2r 0.1.15

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1.21 github.com/coredns/coredns v1.6.7

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1.23 python-setuptools 42.0.2

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1.24 netaddr 0.8.0

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1.25 client-golang v1.3.0

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1.26 pyasn1 0.4.8

1.26.1 Available under license :

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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

Features

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

Why using pyasn1

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

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

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

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

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

```

    )
),
DefaultedNamedType(
    'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    )
)
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

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

```

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

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
...

```

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

```

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

```

```

room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

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

```

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

```

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

```

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

```

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

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

How to get pyasn1

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

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

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

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Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/\_\_main\_\_.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_constraint.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/\_\_main\_\_.py



- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_integer.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_char.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_tag.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_binary.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_useful.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test\_decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
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- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test\_encoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test\_decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
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- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
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- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedtype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test\_encoder.py

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ASN.1 library for Python

=====

```
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```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

-----

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

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

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

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

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

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

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

#### ASN.1 applications

-----

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

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

#### ASN.1 gotchas

-----

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

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

#### Documentation

-----

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

 /pyasn1/contents
```

#### Use case

-----

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

/example-use-case

## Download & Install

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```
.. toctree::
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```

/download

## Changes

-----

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

```
.. toctree::
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```

/changelog

## License

-----

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

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

/license

## Getting help

-----

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

## Books on ASN.1

-----

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

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

\* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

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

\* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

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

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

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

Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

## 1.27 requests\_unixsocket 0.1.5

### 1.27.1 Available under license :

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

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# 1.28 pyasn1 0.1.9

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## 1.29 idna 2.7

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
 if python_version < (2,6):
 raise SystemExit("Sorry, Python 2.6 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 :: 2.6',
 'Programming Language :: Python :: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language :: Python :: 3.3',
 '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',
],
'test_suite': 'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
 main()

```

Found in path(s):

```
* /opt/cola/permits/1110765725_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py
```

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Found in path(s):

```
* /opt/cola/permits/1110765725_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/LICENSE.rst
```

## 1.30 pyasn1-modules 0.0.5

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## 1.33 google-golang-org-grpc v1.26.0

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In order of appearance:

Antoine Latter

Jason Dusek

Tim Newsham

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
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2.7	2.6	2010	PSF	yes

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2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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

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

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCertificateFile.#

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## 1.43 google-api-python-client 1.5.0

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Dependent Modules

=====

This code has the following dependencies  
above and beyond the Python standard library:

uritemplates - Apache License 2.0

httplib2 - MIT License

## 1.44 traceback2 1.4.0

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

Metadata-Version: 1.1

Name: traceback2

Version: 1.4.0

Summary: Backports of the traceback module

Home-page: <https://github.com/testing-cabal/traceback2>

Author: Testing-cabal

Author-email: [testing-cabal@lists.launchpad.net](mailto:testing-cabal@lists.launchpad.net)

License: UNKNOWN

Description: A backport of traceback to older supported Pythons.

```
>>> import traceback2 as traceback
```

Profit.

Things to be aware of!

In Python 2.x, unlike traceback, traceback2 creates unicode output (because it  
depends on the linecache2 module).



Exception frame clearing silently does nothing if the interpreter in use does not support it.

traceback2.\_some\_str, which while not an official API is so old its likely in use behaves similarly to the Python3 version - objects where unicode(obj) fails but str(object) works will be shown as b'thestrvaluerepr'.

Platform: UNKNOWN

Classifier: Development Status :: 6 - Mature

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Python Software Foundation License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Software Development

Found in path(s):

\* /opt/cola/permits/1110814192\_1606854315.91/0/traceback2-1-4-0-1-tar-gz/traceback2-1.4.0/traceback2.egg-info/PKG-INFO

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## 1.45 pycparser 2.17

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## 1.46 asn1crypto 0.24.0

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## 1.47 certbot 0.34.0

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The nginx plugin incorporates code from nginxparser

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## 1.57 asn1crypto 1.2.0

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Metadata-Version: 1.1

Name: ipaddress

Version: 1.0.14

Summary: IPv4/IPv6 manipulation library

Home-page: <https://github.com/phiHag/ipaddress>

Author: Philipp Hagemester

Author-email: [phiHag@phiHag.de](mailto:phiHag@phiHag.de)

License: Python Software Foundation License

Description: Port of the 3.3+ ipaddress module to 2.6, 2.7, 3.2

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Natural Language :: English

Classifier: License :: OSI Approved :: Python Software Foundation License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

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\* /opt/cola/permits/1160881590\_1620412718.7/0/ipaddress-1-0-14-1-tar-gz/ipaddress-1.0.14/ipaddress.egg-info/PKG-INFO

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# 1.66 configobj 5.0.6

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Upstream-Contact: Michael Foord <fuzzyman@voidspace.org.uk>

Source: <http://www.voidspace.org.uk/python/configobj.html>

Files: \*

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## 1.74 bcrypt 3.1.0

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## 1.78 pyopenssl 18.0.0

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# 1.79 pluggly 0.13.1

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###

### Go standard library and http2

###

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###

### [github.com/dustin/go-humanize](https://github.com/dustin/go-humanize)

###

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###

### [github.com/flynn/go-shlex](https://github.com/flynn/go-shlex)

###

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###

### [github.com/go-yaml/yaml](https://github.com/go-yaml/yaml)

###



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# 1.84 golang-org-x-text v0.3.2

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# 1.85 parse 1.8.4

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```
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```

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```
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```

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* /opt/cola/permits/1195311710_1629747868.62/0/parse-1-8-4-tar-gz/parse-1.8.4/test_parse.py
```

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Metadata-Version: 1.1

Name: parse

Version: 1.8.4

Summary: parse() is the opposite of format()

Home-page: <https://github.com/r1chardj0n3s/parse>

Author: Richard Jones

Author-email: [rjones@ekit-inc.com](mailto:rjones@ekit-inc.com)

License: UNKNOWN

Description: Parse strings using a specification based on the Python format() syntax.

```
``parse()`` is the opposite of ``format()``
```

The module is set up to only export ``parse()`, ``search()`, ``findall()`,  
and ``with\_pattern()`` when ``import \*`` is used:

```
>>> from parse import *
```

From there it's a simple thing to parse a string:

```
>>> parse("It's {}, I love it!", "It's spam, I love it!")
<Result ('spam',) {}>
>>> _[0]
'spam'
```

Or to search a string for some pattern:

```
>>> search('Age: {:d}\n', 'Name: Rufus\nAge: 42\nColor: red\n')
<Result (42,) {}>
```

Or find all the occurrences of some pattern in a string:

```
>>> ".join(r.fixed[0] for r in findall(">{<", "<p>the bold text</p>"))
'the bold text'
```

If you're going to use the same pattern to match lots of strings you can  
compile it once:

```
>>> from parse import compile
>>> p = compile("It's {}, I love it!")
>>> print(p)
<Parser "It's {}, I love it!">
>>> p.parse("It's spam, I love it!")
<Result ('spam',) {}>
```

("compile" is not exported for `import *` usage as it would override the built-in `compile()` function)

The default behaviour is to match strings case insensitively. You may match with case by specifying `case_sensitive=True`:

```
>>> parse('SPAM', 'spam', case_sensitive=True) is None
True
```

## Format Syntax

-----

A basic version of the `Format String Syntax` is supported with anonymous (fixed-position), named and formatted fields::

```
{[field name]:[format spec]}
```

Field names must be a valid Python identifiers, including dotted names; element indexes imply dictionaries (see below for example).

Numbered fields are also not supported: the result of parsing will include the parsed fields in the order they are parsed.

The conversion of fields to types other than strings is done based on the type in the format specification, which mirrors the `format()` behaviour. There are no `!` field conversions like `format()` has.

Some simple `parse()` format string examples:

```
>>> parse("Bring me a {}", "Bring me a shrubbery")
<Result ('shrubbery',) {}>
>>> r = parse("The {} who say {}", "The knights who say Ni!")
>>> print(r)
<Result ('knights', 'Ni!') {}>
>>> print(r.fixed)
('knights', 'Ni!')
>>> r = parse("Bring out the holy {item}", "Bring out the holy hand grenade")
>>> print(r)
<Result () {'item': 'hand grenade'}>
```



```
>>> print(r.named)
{'item': 'hand grenade'}
>>> print(r['item'])
hand grenade
```

Dotted names and indexes are possible though the application must make additional sense of the result:

```
>>> r = parse("Mmm, {food.type}, I love it!", "Mmm, spam, I love it!")
>>> print(r)
<Result () {'food.type': 'spam'}>
>>> print(r.named)
{'food.type': 'spam'}
>>> print(r['food.type'])
spam
>>> r = parse("My quest is {quest[name]}", "My quest is to seek the holy grail!")
>>> print(r)
<Result () {'quest': {'name': 'to seek the holy grail!'}}>
>>> print(r['quest'])
{'name': 'to seek the holy grail!'}
>>> print(r['quest']['name'])
to seek the holy grail!
```

If the text you're matching has braces in it you can match those by including a double-brace `{{` or ``}}` in your format string, just like `format()` does.

### Format Specification

-----

Most often a straight format-less `{{}}` will suffice where a more complex format specification might have been used.

Most of `format()`'s `Format Specification Mini-Language`_`` is supported:

```
[[fill]align][0][width][.precision][type]
```

The differences between `parse()` and `format()` are:

- The align operators will cause spaces (or specified fill character) to be stripped from the parsed value. The width is not enforced; it just indicates there may be whitespace or "0"s to strip.
- Numeric parsing will automatically handle a "0b", "0o" or "0x" prefix. That is, the "#" format character is handled automatically by d, b, o and x formats. For "d" any will be accepted, but for the others the correct prefix must be present if at all.
- Numeric sign is handled automatically.
- The thousands separator is handled automatically if the "n" type is used.

- The types supported are a slightly different mix to the format() types. Some format() types come directly over: "d", "n", "%", "f", "e", "b", "o" and "x". In addition some regular expression character group types "D", "w", "W", "s" and "S" are also available.
- The "e" and "g" types are case-insensitive so there is not need for the "E" or "G" types.

```

=====
Type Characters Matched Output
=====
w Letters and underscore str
W Non-letter and underscore str
s Whitespace str
S Non-whitespace str
d Digits (effectively integer numbers) int
D Non-digit str
n Numbers with thousands separators (, or .) int
% Percentage (converted to value/100.0) float
f Fixed-point numbers float
F Decimal numbers Decimal
e Floating-point numbers with exponent float
 e.g. 1.1e-10, NAN (all case insensitive)
g General number format (either d, f or e) float
b Binary numbers int
o Octal numbers int
x Hexadecimal numbers (lower and upper case) int
ti ISO 8601 format date/time datetime
 e.g. 1972-01-20T10:21:36Z ("T" and "Z"
 optional)
te RFC2822 e-mail format date/time datetime
 e.g. Mon, 20 Jan 1972 10:21:36 +1000
tg Global (day/month) format date/time datetime
 e.g. 20/1/1972 10:21:36 AM +1:00
ta US (month/day) format date/time datetime
 e.g. 1/20/1972 10:21:36 PM +10:30
tc ctime() format date/time datetime
 e.g. Sun Sep 16 01:03:52 1973
th HTTP log format date/time datetime
 e.g. 21/Nov/2011:00:07:11 +0000
ts Linux system log format date/time datetime
 e.g. Nov 9 03:37:44
tt Time time
 e.g. 10:21:36 PM -5:30
=====

```

Some examples of typed parsing with ``None`` returned if the typing does not match:

```
>>> parse('Our {:d} {:w} are...', 'Our 3 weapons are...')
<Result (3, 'weapons') {}>
>>> parse('Our {:d} {:w} are...', 'Our three weapons are...')
>>> parse('Meet at {:tg}', 'Meet at 1/2/2011 11:00 PM')
<Result (datetime.datetime(2011, 2, 1, 23, 0),) {}>
```

And messing about with alignment:

```
>>> parse('with {:>} herring', 'with a herring')
<Result ('a',) {}>
>>> parse('spam {:^} spam', 'spam lovely spam')
<Result ('lovely',) {}>
```

Note that the "center" alignment does not test to make sure the value is centered - it just strips leading and trailing whitespace.

Some notes for the date and time types:

- the presence of the time part is optional (including ISO 8601, starting at the "T"). A full datetime object will always be returned; the time will be set to 00:00:00. You may also specify a time without seconds.
- when a seconds amount is present in the input fractions will be parsed to give microseconds.
- except in ISO 8601 the day and month digits may be 0-padded.
- the date separator for the tg and ta formats may be "-" or "/".
- named months (abbreviations or full names) may be used in the ta and tg formats in place of numeric months.
- as per RFC 2822 the e-mail format may omit the day (and comma), and the seconds but nothing else.
- hours greater than 12 will be happily accepted.
- the AM/PM are optional, and if PM is found then 12 hours will be added to the datetime object's hours amount - even if the hour is greater than 12 (for consistency.)
- in ISO 8601 the "Z" (UTC) timezone part may be a numeric offset
- timezones are specified as "+HH:MM" or "-HH:MM". The hour may be one or two digits (0-padded is OK.) Also, the ":" is optional.
- the timezone is optional in all except the e-mail format (it defaults to UTC.)
- named timezones are not handled yet.

Note: attempting to match too many datetime fields in a single parse() will currently result in a resource allocation issue. A TooManyFields exception will be raised in this instance. The current limit is about 15. It is hoped that this limit will be removed one day.

```
.. _`Format String Syntax`:
 http://docs.python.org/library/string.html#format-string-syntax
.. _`Format Specification Mini-Language`:
```

## Result and Match Objects

-----

The result of a `parse()` and `search()` operation is either `None` (no match), a `Result` instance or a `Match` instance if `evaluate_result` is `False`.

The `Result` instance has three attributes:

### fixed

A tuple of the fixed-position, anonymous fields extracted from the input.

### named

A dictionary of the named fields extracted from the input.

### spans

A dictionary mapping the names and fixed position indices matched to a 2-tuple slice range of where the match occurred in the input.

The span does not include any stripped padding (alignment or width).

The `Match` instance has one method:

### evaluate\_result()

Generates and returns a `Result` instance for this `Match` object.

## Custom Type Conversions

-----

If you wish to have matched fields automatically converted to your own type you may pass in a dictionary of type conversion information to `parse()` and `compile()`.

The converter will be passed the field string matched. Whatever it returns will be substituted in the `Result` instance for that field.

Your custom type conversions may override the builtin types if you supply one with the same identifier.

```
>>> def shouty(string):
... return string.upper()
...
>>> parse('{:shouty} world', 'hello world', dict(shouty=shouty))
<Result ('HELLO') {}>
```

If the type converter has the optional `pattern` attribute, it is used as regular expression for better pattern matching (instead of the default one).

```

>>> def parse_number(text):
... return int(text)
>>> parse_number.pattern = r'\d+'
>>> parse('Answer: {number:Number}', 'Answer: 42', dict(Number=parse_number))
<Result () {'number': 42}>
>>> _ = parse('Answer: {:Number}', 'Answer: Alice', dict(Number=parse_number))
>>> assert _ is None, "MISMATCH"

```

You can also use the `with_pattern(pattern)` decorator to add this information to a type converter function:

```

>>> from parse import with_pattern
>>> @with_pattern(r'\d+')
... def parse_number(text):
... return int(text)
>>> parse('Answer: {number:Number}', 'Answer: 42', dict(Number=parse_number))
<Result () {'number': 42}>

```

A more complete example of a custom type might be:

```

>>> yesno_mapping = {
... "yes": True, "no": False,
... "on": True, "off": False,
... "true": True, "false": False,
... }
>>> @with_pattern(r"|" .join(yesno_mapping))
... def parse_yesno(text):
... return yesno_mapping[text.lower()]

```

If the type converter `pattern` uses regex-grouping (with parenthesis), you should indicate this by using the optional `regex_group_count` parameter in the `with_pattern()` decorator:

```

>>> @with_pattern(r'((\d+))', regex_group_count=2)
... def parse_number2(text):
... return int(text)
>>> parse('Answer: {:Number2} {:Number2}', 'Answer: 42 43', dict(Number2=parse_number2))
<Result (42, 43) {}>

```

Otherwise, this may cause parsing problems with unnamed/fixed parameters.

#### Potential Gotchas

-----

`parse()` will always match the shortest text necessary (from left to right)

to fulfil the parse pattern, so for example:

```
>>> pattern = '{dir1}/{dir2}'
>>> data = 'root/parent/subdir'
>>> sorted(parse(pattern, data).named.items())
[('dir1', 'root'), ('dir2', 'parent/subdir')]
```

So, even though `{'dir1': 'root/parent', 'dir2': 'subdir'}` would also fit the pattern, the actual match represents the shortest successful match for `{dir1}`.

----

**\*\*Version history (in brief)\*\*:**

- 1.8.4 Add LICENSE file at request of packagers.  
Correct handling of AM/PM to follow most common interpretation.  
Correct parsing of hexadecimal that looks like a binary prefix.  
Add ability to parse case sensitively.  
Add parsing of numbers to Decimal with "F" (thanks John Vandenberg)
- 1.8.3 Add `regex_group_count` to `with_pattern()` decorator to support user-defined types that contain brackets/parenthesis (thanks Jens Engel)
- 1.8.2 add documentation for including braces in format string
- 1.8.1 ensure bare hexadecimal digits are not matched
- 1.8.0 support manual control over result evaluation (thanks Timo Furrer)
- 1.7.0 parse dict fields (thanks Mark Visser) and adapted to allow more than 100 re groups in Python 3.5+ (thanks David King)
- 1.6.6 parse Linux system log dates (thanks Alex Cowan)
- 1.6.5 handle precision in float format (thanks Levi Kilcher)
- 1.6.4 handle pipe "|" characters in parse string (thanks Martijn Pieters)
- 1.6.3 handle repeated instances of named fields, fix bug in PM time overflow
- 1.6.2 fix logging to use local, not root logger (thanks Necku)
- 1.6.1 be more flexible regarding matched ISO datetimes and timezones in general, fix bug in timezones without ":" and improve docs
- 1.6.0 add support for optional `pattern` attribute in user-defined types (thanks Jens Engel)
- 1.5.3 fix handling of question marks
- 1.5.2 fix type conversion error with dotted names (thanks Sebastian Thiel)
- 1.5.1 implement handling of named datetime fields
- 1.5 add handling of dotted field names (thanks Sebastian Thiel)
- 1.4.1 fix parsing of "0" in int conversion (thanks James Rowe)
- 1.4 add `__getitem__` convenience access on Result.
- 1.3.3 fix Python 2.5 setup.py issue.
- 1.3.2 fix Python 3.2 setup.py issue.
- 1.3.1 fix a couple of Python 3.2 compatibility issues.
- 1.3 added `search()` and `findall()`; removed `compile()` from `import *` export as it overwrites builtin.

- 1.2 added ability for custom and override type conversions to be provided; some cleanup
- 1.1.9 to keep things simpler number sign is handled automatically; significant robustification in the face of edge-case input.
- 1.1.8 allow "d" fields to have number base "0x" etc. prefixes; fix up some field type interactions after stress-testing the parser; implement "%" type.
- 1.1.7 Python 3 compatibility tweaks (2.5 to 2.7 and 3.2 are supported).
- 1.1.6 add "e" and "g" field types; removed redundant "h" and "X"; removed need for explicit "#".
- 1.1.5 accept textual dates in more places; Result now holds match span positions.
- 1.1.4 fixes to some int type conversion; implemented "=" alignment; added date/time parsing with a variety of formats handled.
- 1.1.3 type conversion is automatic based on specified field types. Also added "f" and "n" types.
- 1.1.2 refactored, added compile() and limited ``from parse import \*``
- 1.1.1 documentation improvements
- 1.1.0 implemented more of the `Format Specification Mini-Language`\_ and removed the restriction on mixing fixed-position and named fields
- 1.0.0 initial release

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## 1.86 cffi 1.14.1

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

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## 1.93 packaging 20.1

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## 1.94 service-identity 18.1.0

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# 1.95 urllib3 1.24.1

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- \* 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
  
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- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
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- \* 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
  
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- \* 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](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
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- \* Support for standard library io module.
  
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- \* Google App Engine documentation
  
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
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- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto: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](mailto: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](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme

- \* Aviv Palivoda <palaviv@gmail.com>
- \* 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
- \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]

## 1.96 six 1.15.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and

otherwise worked to improve six:

Marc Abramowitz  
immerrr again  
Alexander Artemenko  
Aymeric Augustin  
Lee Ball  
Ben Bariteau  
Ned Batchelder  
Wouter Bolsterlee  
Brett Cannon  
Jason R. Coombs  
Julien Danjou  
Ben Darnell  
Ben Davis  
Jon Dufresne  
Tim Graham  
Thomas Grainger  
Max Grender-Jones  
Joshua Harlow  
Toshiki Kataoka  
Hugo van Kemenade  
Anselm Kruis  
Ivan Levkivskyi  
Alexander Lukanin  
James Mills  
Jordan Moldow  
Berker Peksag  
Sridhar Ratnakumar  
Erik Rose  
Mirko Rossini  
Peter Ruibal  
Miroslav Shubernetskiy  
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\*

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\*

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Found in path(s):

\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/examples/qrcodegen-demo.rs  
No license file was found, but licenses were detected in source scan.

/\*

\* QR Code generator test suite (C)  
\*  
\* When compiling this program, the library qrcodegen.c needs QRCODEGEN\_TEST  
\* to be defined. Run this command line program with no arguments.  
\*  
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Found in path(s):

\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen-test.c  
No license file was found, but licenses were detected in source scan.

QR Code generator library

---

## Introduction

---

This project aims to be the best, clearest QR Code generator library. The primary goals are flexible options and absolute correctness. Secondary goals are compact implementation size and good documentation comments.

Home page with live JavaScript demo, extensive descriptions, and competitor comparisons:

<https://www.nayuki.io/page/qr-code-generator-library>

## Features

---

Core features:

- \* Available in 6 programming languages, all with nearly equal functionality: Java, JavaScript, Python, C++, C, Rust
- \* Significantly shorter code but more documentation comments compared to competing libraries
- \* Supports encoding all 40 versions (sizes) and all 4 error correction levels, as per the QR Code Model 2 standard
- \* Output formats: Raw modules/pixels of the QR symbol, SVG XML string
- \* Encodes numeric and special-alphanumeric text in less space than general text
- \* Open source code under the permissive MIT License

Manual parameters:

- \* User can specify minimum and maximum version numbers allowed, then library will automatically choose smallest version in the range that fits the data
- \* User can specify mask pattern manually, otherwise library will automatically evaluate all 8 masks and select the optimal one
- \* User can specify absolute error correction level, or allow the library to boost it if it doesn't increase the version number
- \* User can create a list of data segments manually and add ECI segments

## Examples

---

```
extern crate qrcodegen;
use qrcodegen::QrCode;
use qrcodegen::QrCodeEcc;
use qrcodegen::QrSegment;

// Simple operation
let qr0 = QrCode::encode_text("Hello, world!",
 QrCodeEcc::Medium).unwrap();
let svg = qr0.to_svg_string(4);
```

```
// Manual operation
let chrs: Vec<char> = "3141592653589793238462643383".chars().collect();
let segs = QrSegment::make_segments(&chrs);
let qr1 = QrCode::encode_segments_advanced(
 &segs, QrCodeEcc::High, 5, 5, Some(2), false).unwrap();
for y in 0 .. qr1.size() {
 for x in 0 .. qr1.size() {
 (... paint qr1.get_module(x, y) ...)
 }
}
}
```

More complete set of examples: <https://github.com/nayuki/QR-Code-generator/blob/master/rust/examples/qrcodegen-demo.rs> .

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/Readme.markdown
```

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

```
/*
* QR Code generator test worker (Java)
*
* This program reads data and encoding parameters from standard input and writes
* QR Code bitmaps to standard output. The I/O format is one integer per line.
* Run with no command line arguments. The program is intended for automated
* batch testing of end-to-end functionality of this QR Code generator library.
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QRCodeGeneratorWorker.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* QR Code generator library (Rust)
```

```
*
```

```
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```

```
* https://www.nayuki.io/page/qr-code-generator-library
```

```
*
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/src/lib.rs
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```

```
/*
```

```
* QR Code generator demo (JavaScript)
```

```
*
```

```
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```

```
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```

```
*
```

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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/javascript/qrcodegen-demo.js  
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QRSegmentAdvanced.java  
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/\*

\* QR Code generator test worker (Rust)

\*

\* This program reads data and encoding parameters from standard input and writes QR Code bitmaps to standard output. The I/O format is one integer per line.  
\* Run with no command line arguments. The program is intended for automated batch testing of end-to-end functionality of this QR Code generator library.

\*

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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/rust/examples/qrcodegen-worker.rs  
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/\*

\* QR Code generator test worker (C++)



```
*
* This program reads data and encoding parameters from standard input and writes
* QR Code bitmaps to standard output. The I/O format is one integer per line.
* Run with no command line arguments. The program is intended for automated
* batch testing of end-to-end functionality of this QR Code generator library.
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```

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrCodeGeneratorWorker.cpp
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```

```
/*
* QR Code generator demo (C)
*
* Run this command-line program with no arguments. The program
* computes a demonstration QR Codes and print it to the console.
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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen-demo.c

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\*

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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen.c

\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen.h

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```
/*
* QR Code generator demo (Java)
*
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* PNG and SVG files in the current working directory to demonstrate the creation of QR Codes.
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```

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QrCodeGeneratorDemo.java
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```

```
/*
* QR Code generator test worker (C)
*
* This program reads data and encoding parameters from standard input and writes
* QR Code bitmaps to standard output. The I/O format is one integer per line.
* Run with no command line arguments. The program is intended for automated
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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/qrcodegen-worker.c  
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/\*

\* QR Code generator library (Java)

\*

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\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QrSegment.java  
\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/BitBuffer.java

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/java/io/nayuki/qrcodegen/QRCode.java
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```

```
/*
* QR Code generator demo (C++)
*
* Run this command-line program with no arguments. The program computes a bunch of demonstration
* QR Codes and prints them to the console. Also, the SVG code for one QR Code is printed as a sample.
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```

Found in path(s):

```
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QRCodeGeneratorDemo.cpp
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```

QR Code generator library

=====

Introduction

-----

This project aims to be the best, clearest QR Code generator library in multiple languages. The primary goals are flexible options and absolute correctness. Secondary goals are compact implementation size and good documentation comments.

Home page with live JavaScript demo, extensive descriptions, and competitor comparisons:

[<https://www.nayuki.io/page/qr-code-generator-library>](<https://www.nayuki.io/page/qr-code-generator-library>)

## Features

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### Core features:

- \* Available in 6 programming languages, all with nearly equal functionality: Java, JavaScript, Python, C++, C, Rust
- \* Significantly shorter code but more documentation comments compared to competing libraries
- \* Supports encoding all 40 versions (sizes) and all 4 error correction levels, as per the QR Code Model 2 standard
- \* Output formats: Raw modules/pixels of the QR symbol (all languages), SVG XML string (all languages except C), `BufferedImage` raster bitmap (Java only), HTML5 canvas (JavaScript only)
- \* Encodes numeric and special-alphanumeric text in less space than general text
- \* Open source code under the permissive MIT License

### Manual parameters:

- \* User can specify minimum and maximum version numbers allowed, then library will automatically choose smallest version in the range that fits the data
- \* User can specify mask pattern manually, otherwise library will automatically evaluate all 8 masks and select the optimal one
- \* User can specify absolute error correction level, or allow the library to boost it if it doesn't increase the version number
- \* User can create a list of data segments manually and add ECI segments (all languages except C)

### Optional advanced features (Java only):

- \* Encodes Japanese Unicode text in kanji mode to save a lot of space compared to UTF-8 bytes
- \* Computes optimal segment mode switching for text with mixed numeric/alphanumeric/general parts

More information about QR Code technology and this library's design can be found on the project home page.

## Examples

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### Java language:

```
import java.awt.image.BufferedImage;
import java.io.File;
import javax.imageio.ImageIO;
import io.nayuki.qrcodegen.*;

// Simple operation
QRCode qr0 = QRCode.encodeText("Hello, world!", QRCode.Ecc.MEDIUM);
BufferedImage img = qr0.toImage(4, 10);
```

```

ImageIO.write(img, "png", new File("qr-code.png"));

// Manual operation
List<QrSegment> segs = QrSegment.makeSegments("3141592653589793238462643383");
QrCode qr1 = QrCode.encodeSegments(segs, QrCode.Ecc.HIGH, 5, 5, 2, false);
for (int y = 0; y < qr1.size; y++) {
 for (int x = 0; x < qr1.size; x++) {
 (... paint qr1.getModule(x, y) ...)
 }
}

```

JavaScript language:

```

// Name abbreviated for the sake of these examples here
var QRC = qrcodegen.QrCode;

// Simple operation
var qr0 = QRC.encodeText("Hello, world!", QRC.Ecc.MEDIUM);
var svg = qr0.toSvgString(4);

// Manual operation
var segs = qrcodegen.QrSegment.makeSegments("3141592653589793238462643383");
var qr1 = QRC.encodeSegments(segs, QRC.Ecc.HIGH, 5, 5, 2, false);
for (var y = 0; y < qr1.size; y++) {
 for (var x = 0; x < qr1.size; x++) {
 (... paint qr1.getModule(x, y) ...)
 }
}

```

Python language:

```

from qrcodegen import *

Simple operation
qr0 = QrCode.encode_text("Hello, world!", QrCode.Ecc.MEDIUM)
svg = qr0.to_svg_str(4)

Manual operation
segs = QrSegment.make_segments("3141592653589793238462643383")
qr1 = QrCode.encode_segments(segs, QrCode.Ecc.HIGH, 5, 5, 2, False)
for y in range(qr1.get_size()):
 for x in range(qr1.get_size()):
 (... paint qr1.get_module(x, y) ...)

```

C++ language:

```

#include <string>
#include <vector>

```

```

#include "QrCode.hpp"
using namespace qrcodegen;

// Simple operation
QrCode qr0 = QrCode::encodeText("Hello, world!", QrCode::Ecc::MEDIUM);
std::string svg = qr0.toSvgString(4);

// Manual operation
std::vector<QrSegment> segs =
 QrSegment::makeSegments("3141592653589793238462643383");
QrCode qr1 = QrCode::encodeSegments(
 segs, QrCode::Ecc::HIGH, 5, 5, 2, false);
for (int y = 0; y < qr1.getSize(); y++) {
 for (int x = 0; x < qr1.getSize(); x++) {
 (... paint qr1.getModule(x, y) ...)
 }
}

```

C language:

```

#include <stdbool.h>
#include <stdint.h>
#include "qrcodegen.h"

// Text data
uint8_t qr0[qrcodegen_BUFFER_LEN_MAX];
uint8_t tempBuffer[qrcodegen_BUFFER_LEN_MAX];
bool ok = qrcodegen_encodeText("Hello, world!",
 tempBuffer, qr0, qrcodegen_Ecc_MEDIUM,
 qrcodegen_VERSION_MIN, qrcodegen_VERSION_MAX,
 qrcodegen_Mask_AUTO, true);
if (!ok)
 return;

int size = qrcodegen_getSize(qr0);
for (int y = 0; y < size; y++) {
 for (int x = 0; x < size; x++) {
 (... paint qrcodegen_getModule(qr0, x, y) ...)
 }
}

// Binary data
uint8_t dataAndTemp[qrcodegen_BUFFER_LEN_FOR_VERSION(7)]
 = {0xE3, 0x81, 0x82};
uint8_t qr1[qrcodegen_BUFFER_LEN_FOR_VERSION(7)];
ok = qrcodegen_encodeBinary(dataAndTemp, 3, qr1,
 qrcodegen_Ecc_HIGH, 2, 7, qrcodegen_Mask_4, false);

```



Rust language:

```
extern crate qrcodegen;
use qrcodegen::QrCode;
use qrcodegen::QrCodeEcc;
use qrcodegen::QrSegment;

// Simple operation
let qr0 = QrCode::encode_text("Hello, world!",
 QrCodeEcc::Medium).unwrap();
let svg = qr0.to_svg_string(4);

// Manual operation
let chrs: Vec<char> = "3141592653589793238462643383".chars().collect();
let segs = QrSegment::make_segments(&chrs);
let qr1 = QrCode::encode_segments_advanced(
 &segs, QrCodeEcc::High, 5, 5, Some(2), false).unwrap();
for y in 0 .. qr1.size() {
 for x in 0 .. qr1.size() {
 (... paint qr1.get_module(x, y) ...)
 }
}
```

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```
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```
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* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/c/Makefile
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen-batch-test.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen-worker.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/setup.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen-demo.py
* /opt/cola/permits/1201689753_1631543808.85/0/qr-code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-390198ea4bb213498b56e8f72e1b4c96c5cf1f66/python/qrcodegen.py
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```

/\*

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/javascript/qrcodegen.js  
No license file was found, but licenses were detected in source scan.

/\*

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390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/BitBuffer.cpp  
\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/BitBuffer.hpp  
\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrCode.cpp  
\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
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390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrSegment.cpp  
\* /opt/cola/permits/1201689753\_1631543808.85/0/qr-code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66-zip/QR-Code-generator-  
390198ea4bb213498b56e8f72e1b4c96c5cf1f66/cpp/QrSegment.hpp

# 1.100 cryptography 2.3

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## 1.102 pyjwt 1.6.4

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## 1.107 linecache 1.0.0

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Metadata-Version: 1.1

Name: linecache2

Version: 1.0.0

Summary: Backports of the linecache module

Home-page: <https://github.com/testing-cabal/linecache2>

Author: Testing-cabal

Author-email: [testing-cabal@lists.launchpad.net](mailto:testing-cabal@lists.launchpad.net)

License: UNKNOWN

Description: A backport of linecache to older supported Pythons.

```
>>> import linecache2 as linecache
```

Profit.

Platform: UNKNOWN

Classifier: Development Status :: 6 - Mature

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Python Software Foundation License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Software Development

Found in path(s):

\* /opt/cola/permits/1110814177\_1606854861.13/0/linecache2-1-0-0-1-tar-gz/linecache2-1.0.0/linecache2.egg-info/PKG-INFO

\* /opt/cola/permits/1110814177\_1606854861.13/0/linecache2-1-0-0-1-tar-gz/linecache2-1.0.0/PKG-INFO

# 1.108 enum34 1.0.4

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## 1.109 txredisapi 1.0

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```

Found in path(s):

```
* /opt/cola/permits/1199952119_1630618139.32/txredisapi-1-0-1-tar-gz/txredisapi-1.0/txredisapi.py
* /opt/cola/permits/1199952119_1630618139.32/txredisapi-1-0-1-tar-gz/txredisapi-1.0/setup.py
```

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Metadata-Version: 1.0

Name: txredisapi

Version: 1.0

Summary: non-blocking redis client for python

Home-page: <http://github.com/fiorix/txredisapi>

Author: Alexandre Fiori

Author-email: [fiorix@gmail.com](mailto:fiorix@gmail.com)

License: <http://www.apache.org/licenses/LICENSE-2.0>

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

```
* /opt/cola/permits/1199952119_1630618139.32/txredisapi-1-0-1-tar-gz/txredisapi-1.0/PKG-INFO
* /opt/cola/permits/1199952119_1630618139.32/txredisapi-1-0-1-tar-gz/txredisapi-1.0/txredisapi.egg-info/PKG-INFO
```



# 1.110 beautiful-soup 4.5.1

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# 1.111 zope\_component 4.3.0

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## 1.112 pbr 1.10.0

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# 1.113 future 0.16.0

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## 1.114 parse-type 0.4.2

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# 1.116 common v0.9.1

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## 1.117 zope\_interface 5.2.0

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## 1.118 isodate 0.5.4

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```
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/tests/__init__.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/tests/test_duration.py
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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/duration.py
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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/__init__.py
```

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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isostrf.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isoduration.py
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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isodates.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/tests/test_strf.py
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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/setup.py
```

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Metadata-Version: 1.1

Name: isodate

Version: 0.5.4

Summary: An ISO 8601 date/time/duration parser and formatter

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

Author: Gerhard Weis

Author-email: [gerhard.weis@proclos.com](mailto:gerhard.weis@proclos.com)

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Description:

ISO 8601 date/time parser

=====

```
.. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
 :target: https://travis-ci.org/gweis/isodate
 :alt: Travis-CI
.. image:: https://coveralls.io/repos/gweis/isodate/badge.svg?branch=master
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```

This module implements ISO 8601 date, time and duration parsing.

The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still

be valid as ISO date, because it is not explicitly forbidden.)

Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

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

## Documentation

-----

Currently there are four parsing methods available.

- `* parse_time:`  
parses an ISO 8601 time string into a `*time*` object
- `* parse_date:`  
parses an ISO 8601 date string into a `*date*` object
- `* parse_datetime:`  
parses an ISO 8601 date-time string into a `*datetime*` object
- `* parse_duration:`  
parses an ISO 8601 duration string into a `*timedelta*` or `*Duration*` object.
- `* parse_tzinfo:`  
parses the time zone info part of an ISO 8601 string into a `*tzinfo*` object.

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

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

- `* time_isoformat:`  
Intended to create ISO time strings with default format `*hh:mm:ssZ*`.
- `* date_isoformat:`  
Intended to create ISO date strings with default format `*yyyy-mm-dd*`.
- `* datetime_isoformat:`  
Intended to create ISO date-time strings with default format `*yyyy-mm-ddThh:mm:ssZ*`.
- `* duration_isoformat:`

Intended to create ISO duration strings with default format

\*PnnYnnMnnDTnnHnnMnnS\*.

\* tz\_isoformat:

Intended to create ISO time zone strings with default format

\*hh:mm\*.

\* strftime:

A re-implementation mostly compatible with Python's \*strftime\*, but supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format \*datetime\* and \*Duration\* instances.

Installation:

-----

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

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

Limitations:

-----

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

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

Further information:

-----

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

The source release provides a \*setup.py\* script and a \*buildout.cfg\*. Both can be used to run the unit tests included.

Source code is available at [`<http://github.com/gweis/isodate>`](http://github.com/gweis/isodate).

CHANGES

=====

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 formatting 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 formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)

-----

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

0.4.1 (2010-10-13)

-----

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

0.4.0 (2009-02-09)

-----

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)

-----

- Initial release

TODOs

=====

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

Missing features:

-----



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

Documentation:

-----

- \* parse\_datetime:
  - complete documentation to show what this function allows, but ISO forbids.  
and vice 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

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

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# 1.119 pytoml 0.1.2

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Metadata-Version: 1.0

Name: pytoml

Version: 0.1.0

Summary: A parser for TOML-0.4.0

Home-page: <https://github.com/avakar/pytoml>

Author: Martin Vejnír

Author-email: [avakar@ratatanez.cz](mailto:avakar@ratatanez.cz)

License: MIT

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/1156519782\_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/test/pytoml.egg-info/PKG-INFO

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Metadata-Version: 1.0

Name: pytoml

Version: 0.1.2

Summary: A parser for TOML-0.4.0

Home-page: <https://github.com/avakar/pytoml>

Author: Martin Vejnír

Author-email: [avakar@ratatanez.cz](mailto:avakar@ratatanez.cz)

License: MIT

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/1156519782\_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/pytoml.egg-info/PKG-INFO

\* /opt/cola/permits/1156519782\_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/PKG-INFO

# 1.120 pycparser 2.10

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## 1.121 Ixml 4.6.2

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```
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```

```
* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson/codec.py
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```

```
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```
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====

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```

Independent BSON codec for Python that doesn't depend on MongoDB. The bson

ObjectId implementation is forked from the PyMongo project, licensed under

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## Installation

-----

```
.. sourcecode:: bash
```

```
~ $ python setup.py install
```

or can use pip

```
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```

```
~ $ pip install bson
```

## Quick start

-----

```
.. sourcecode:: python
```

```
>>> import bson
>>> a = bson.dumps({"A":[1,2,3,4,5,"6", u"7"], {"C":u"DS"}})
>>> b = bson.loads(a)
>>> b
{'A': [1, 2, 3, 4, 5, '6', u'7'], {'C': u'DS'}}
```

Sending and receiving BSON objects to and from network sockets.

```
.. sourcecode:: python
```

```
>>> from gevent import monkey, socket
>>> monkey.patch_all()
>>>
>>> import bson
>>> bson.patch_socket()
>>> s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
>>> s.connect(("127.0.0.1", 12345))
>>> s.sendobj({"u"message" : "hello!"})
```

Found in path(s):

```
* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/README.rst
```

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

Metadata-Version: 1.1

Name: bson

Version: 0.5.10

Summary: BSON codec for Python  
Home-page: <http://github.com/py-bson/bson>  
Author: Ayun Park  
Author-email: [iamparkayun@gmail.com](mailto:iamparkayun@gmail.com)  
License: BSD  
Description: Independent BSON codec for Python that doesn't depend on MongoDB.  
Keywords: BSON codec  
Platform: Any  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6

Found in path(s):

\* /opt/cola/permits/1157342329\_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson.egg-info/PKG-INFO  
\* /opt/cola/permits/1157342329\_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/PKG-INFO

## 1.127 rsa 3.4

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