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1.4 setuptools-scm 2.1.0

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1.5 dpkt 1.9.2

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1.7 service-identity 18.1.0

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1.8 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/1673010570_1683816445.4652283/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

1.9 packaging 20.1

1.9.1 Available under license:

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1.11 python3-asn1crypto 1.2.0

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- $*/opt/cola/permits/1673010604_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/debug.py$
- $*/opt/cola/permits/1673010604_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/tests/type/test_opentype.py$
- $*/opt/cola/permits/1673010604_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/type/constraint.py$

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- */opt/cola/permits/1673010604_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/compat/string.py
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- $*/opt/cola/permits/1673010604_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/compat/octets.py$
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 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 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.

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 ">_ 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



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

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

* `ITU standards

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

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

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

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

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ASN.1 library for Python

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

[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)

 $[![Build\ status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)$

[![Coverage

Status] (https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)] (https://codecov.io/github/etingof/pyasn1) (https://codecov.io/github/etingof/pyasn2) (https://codecov.io/github/etingof/pyas

[![GitHub license](https://img.shields.io/badge/license-BSD-

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

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

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

Features

*

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

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

Why using pyasn1

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

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

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

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

by

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

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

```
How to use pyasn1
```

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

```
```bash
Record ::= SEQUENCE {
 INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
Could be expressed in pyasn1 like this:
```python
class Record(Sequence):
 componentType = NamedTypes(
   NamedType('id', Integer()),
   OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
   ),
   DefaultedNamedType(
      'house',
Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
   )
 )
```

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

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

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...
Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify,
encode and send back.
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
>>> 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):

 $*/opt/cola/permits/1673010604\_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/README.md$ 

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

.. \_license:

License

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.. include:: ../../LICENSE.rst

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 $*/opt/cola/permits/1673010604\_1683816449.4330244/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/docs/source/license.rst$ 

# 1.16 pyparsing 3.0.0a2

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# 1.17 typing-extensions 4.3.0

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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.

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

Release	Derive	ed Yea	r Own	er GPL-
	from		com	patible? (1)
0.00.1	1.2	1001 1	1005 GW	
0.9.0 thru 1.2		1991-1	1995 CW	yes
1.3 thru	1.5.2 1.2	1995	-1999 CN	RI yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.o	com no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.	1 2001	PSF	no
2.0.1	2.0+1.6	.1 2001	PSF	yes
2.1.1	2.1+2.0	.1 2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and a	above			
2.1.1	2001-now	PSF	yes	

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# 1.18 pyopenssl 23.2.0

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# 1.19 automat 22.10.0

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pycparser -- A C parser in Python

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

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# 1.31 cryptography 41.0.7

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# 1.33 python 3.11.7

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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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Release	Deriv	ed Ye	ear Ow	ner GPL-	
from			con	npatible? (1)	
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1.3 thru 1	.5.2 1.2	199	5-1999 Cl	NRI 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	5.1 2001	l PSF	no	
2.0.1	2.0+1.0	6.1 200	1 PSF	yes	
2.1.1	2.1+2.0	0.1 200	1 PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2 and above 2.1.1 2001-now					
PSF	yes				

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# 1.36 twisted\_iocpsupport 1.0.4

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