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### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 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                 |
| 2.1.2          | 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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Any

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## 1.11 python-pip 23.3.1

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

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <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.

All

Python releases are Open Source (see <https://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        | Derived from | Year      | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 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     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| 2.2 and above  | 2.1.1     | 2001-now  |            |         |
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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| from           |           | compatible? (1) |            |         |
|----------------|-----------|-----------------|------------|---------|
| 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     |
| 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     |

Footnotes:

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pycparser -- A C parser in Python

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# 1.18 attrs 23.1.0

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A full list of contributors can be found in [GitHub's overview](https://github.com/python-attrs/attrs/graphs/contributors).

Its the spiritual successor of [characteristic](https://characteristic.readthedocs.io/) and aspires to fix some of it clunkiness and unfortunate decisions.

Both were inspired by Twisted

[FancyEqMixin](https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html)

but both are implemented using class decorators because [subclassing is bad for you](https://www.youtube.com/watch?v=3MNVP9-hglc), mkay?

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```

ASN.1 library for Python

-----

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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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

## Features

-----

\*

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

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.7

\* MT-safe

\* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

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

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

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

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

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

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

## How to use pyasn1

-----

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

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

Could be expressed in pyasn1 like this:

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

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

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

```
room=321
```

```
>>>
```

```
'''
```

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

```
```python
```

```
>>> from pyasn1.codec.der.encoder import encode
```

```
>>> substrate = encode(record)
```

```
>>> hexdump(substrate)
```

```
00000: 30 07 02 01 7B 80 02 01 41
```

```
'''
```

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

```
```python
```

```
>>> from pyasn1.codec.der.decoder import decode
```

```
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
```

```
>>>
```

```
>>> for field in received_record:
```

```
>>>     print('{} is {}'.format(field, received_record[field]))
```

```
id is 123
```

```
room is 321
```

```
house is 0
```

```
>>>
```

```
>>> record == received_record
```

```
True
```

```
>>> 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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\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md



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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](mailto:etingof@gmail.com)

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto: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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Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier:

Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

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ASN.1 library for Python

=====

```
.. toctree::
```

```
   :maxdepth: 1
```

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> 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

-----

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

/download

## Changes

-----

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

```
..
toctree::
    :maxdepth: 1
```

/changelog

## License

-----

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```
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```

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## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_

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

## Books on ASN.1

-----

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

- \* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/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.

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## 1.31 python 3.11.10

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <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.

All

Python releases are Open Source (see <https://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        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
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## 1.35 pyparsing 3.0.0a2

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## 1.40 more-itertools 8.8.0

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## 1.41 pyproject-hooks 1.0.0

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# 1.42 truststore 0.8.0

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# 1.43 cachecontrol 0.13.1

## 1.43.1 Available under license :

on:

release:

types:

- published

name: release

jobs:

pypi:

name: upload release to PyPI

runs-on: ubuntu-latest

permissions:

# Used to authenticate to PyPI via OIDC.

# Used to sign the release's artifacts with sigstore-python.

id-token: write

```

# Used to attach signing artifacts to the published release.
contents: write

steps:
- uses: actions/checkout@v3

- uses: actions/setup-python@v4
  with:
    python-version: ">= 3.6"

- name: deps
  run: python -m pip install -U build

- name: build
  run: python -m build

- name: publish
  uses: pypa/gh-action-pypi-publish@release/v1

- name: sign
  uses: sigstore/gh-action-sigstore-python@v1.2.3
  with:
    inputs: ./dist/*.tar.gz ./dist/*.whl
    release-signing-artifacts: true
[build-system]
requires = ["flit_core >=3.2,<4"]
build-backend = "flit_core.buildapi"

[tool.flit.module]
name = "cachecontrol"

[tool.flit.sdist]
include = ["tests/"]

[project]
name = "CacheControl"
dynamic = ["version"]
description = "httplib2 caching for requests"
readme = "README.rst"
license = { file = "LICENSE.txt" }
authors = [
  { name = "Eric Larson", email = "ericlarson@ionrock.com" },
  { name = "Frost Ming", email = "me@frostming.com" },
  { name = "William Woodruff", email = "william@yossarian.net" },
]
classifiers = [
  "Development Status :: 4 - Beta",
  "Environment :: Web Environment",

```

```

"License :: OSI Approved :: Apache Software License",
"Operating System :: OS Independent",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: 3.9",
"Programming Language :: Python :: 3.10",
"Programming Language :: Python :: 3.11",
"Topic
:: Internet :: WWW/HTTP",
]
keywords = ["requests", "http", "caching", "web"]
dependencies = ["requests >= 2.16.0", "msgpack >= 0.5.2"]
requires-python = ">=3.7"

[project.urls]
Homepage = "https://pypi.org/project/CacheControl/"
Issues = "https://github.com/psf/cachecontrol/issues"
Source = "https://github.com/psf/cachecontrol"

[project.optional-dependencies]
# End-user extras.
filecache = ["filelock >= 3.8.0"]
redis = ["redis>=2.10.5"]

# Development extras.
dev = [
    "CacheControl[filecache,redis]",
    "build",
    "mypy",
    "tox",
    "pytest-cov",
    "pytest",
    "cherryypy",
    "sphinx",
    "black",
    "types-redis",
    "types-requests",
]

[project.scripts]
doesitcache = "cachecontrol._cmd:main"

[tool.mypy]
show_error_codes = true
strict = true
enable_error_code = ["ignore-without-code", "redundant-expr", "truthy-bool"]

```

```
[[tool.mypy.overrides]]
module = "msgpack"
ignore_missing_imports = true
```

```
[tool.pytest.ini_options]
norecursedirs = ["bin", "lib", "include", "build"]
# Contributing to CacheControl
```

Thank you for your interest in contributing to `CacheControl`!

The information below will help you set up a local development environment and perform common development tasks.

## ## Requirements

`CacheControl`'s only external development requirement is Python 3.7 or newer.

## ## Development steps

First, clone this repository:

```
```bash
git clone https://github.com/psf/cachecontrol
cd cachecontrol
```
```

Then, bootstrap your local development environment:

```
```bash
make bootstrap
# OPTIONAL: enter the new environment, if you'd like to run things directly
source .venv/bin/activate
```
```

Once you've run `make bootstrap`, you can run the other `make` targets to perform particular tasks.

Any changes you make to the `cachecontrol` source tree will take effect immediately in the development environment.

## ### Linting

You can run the current formatters with:

```
```bash
make format
```
```



### ### Testing

You can run the unit tests locally with:

```
```bash
# run the test suite in
the current environment
make test

# OPTIONAL: use `tox` to fan out across multiple interpreters
make test-all
```
```

### ### Documentation

You can build the Sphinx-based documentation with:

```
```bash
# puts the generated HTML in docs/_build/html/
make doc
```
```

### ### Releasing

**\*\*NOTE\*\*:** If you're a non-maintaining contributor, you don't need the steps here! They're documented for completeness and for onboarding future maintainers.

Releases of `CacheControl` are managed by GitHub Actions.

To perform a release:

1. Update `CacheControl`'s `\_\_version\_\_` attribute. It can be found under `cachecontrol/\_\_init\_\_.py`.

1. Create a new tag corresponding to your new version, with a `v` prefix. For example:

```
```bash
# IMPORTANT: don't forget the `v` prefix!
git tag v1.2.3
```
```

1. Push your changes to `master` and to the new remote tag.

1. Create, save, and publish a GitHub release for your new tag, including any `CHANGELOG` entries.

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---

name: CI

on:

push:

branches: ["master"]

pull\_request:

branches: ["master"]

workflow\_dispatch:

jobs:

tests:

name: "Python \${ matrix.python-version } \${ matrix.os }"

runs-on: "\${ matrix.os }"

strategy:

fail-fast: false

matrix:

python-version: ["3.7", "3.8", "3.9", "3.10", "3.11"]

os: ["macos-latest", "windows-latest", "ubuntu-latest"]

steps:

- uses: "actions/checkout@v3"

- uses: "actions/setup-python@v4"

with:

python-version: "\${ matrix.python-version }"

- name: "Install dependencies"

run: |

python -VV

python -m site

python -m pip install --upgrade pip setuptools wheel

python -m pip install --upgrade virtualenv tox tox-gh-actions

- name: "Run tox targets for \${ matrix.python-version }"

run: "python -m tox"

# 1.44 platformdirs 2.6.2

## 1.44.1 Available under license :

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# 1.45 wheel 0.42.0

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# 1.46 automat 24.8.1

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

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

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

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