pyversion-info

Release 1.2.2

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API

Versions are passed to & returned from methods as strings in the form "X" (a major version), "X.Y" (a minor version), or "X.Y.Z" (a micro version).

All dates are returned as datetime.date objects.

class pyversion_info.VersionDatabase

New in version 1.0.0.

A database of CPython and PyPy version information. Instances are constructed from JSON objects following this JSON Schema.

classmethod fetch($url: str = DATA_URL, cache_dir: str \mid pathlib.Path \mid None = CACHE_DIR) \rightarrow pyversion_info.VersionDatabase$

Fetches the latest version information from the JSON document at url and returns a new VersionDatabase instance

Parameters

- url (str) The URL from which to fetch the data
- cache_dir (str | Path | None) The directory to use for caching HTTP requests. May be None to disable caching.

Return type

VersionDatabase

cpython: CPythonVersionInfo

A database of CPython version information

last modified: datetime

The date & time when the database was last updated

classmethod parse_file(filepath: $str \mid Path$) $\rightarrow VersionDatabase$

Parses a version database from a JSON file and returns a new VersionDatabase instance

classmethod parse_obj(data: dict) $\rightarrow VersionDatabase$

Parses a version database from a dict descrialized from a JSON document and returns a new *VersionDatabase* instance

pypy: PyPyVersionInfo

A database of PyPy version information

class pyversion_info.VersionInfo

New in version 1.0.0.

A base class for storing & querying versions and their release dates

is_released(*version: str*) \rightarrow bool

Returns whether the given version has been released yet. For a major or minor version, this is the whether the first (in version order) micro version has been released.

Parameters

version (*str*) – the version to query the release status of

Return type

bool

Raises

- UnknownVersionError if there is no micro version corresponding to version in the database
- ValueError if version is not a valid version string

$major_versions() \rightarrow list[str]$

Returns a list in version order of all known major versions (as strings).

Changed in version 1.0.0: Now returns all known versions, released & unreleased

```
micro\_versions() \rightarrow list[str]
```

Returns a list in version order of all known micro versions

Changed in version 1.0.0: Now returns all known versions, released & unreleased

```
minor\_versions() \rightarrow list[str]
```

Returns a list in version order of all known minor versions

Changed in version 1.0.0: Now returns all known versions, released & unreleased

```
release\_date(version: str) \rightarrow date | None
```

Returns the release date of the given version. For a major or minor version, this is the release date of its first (in version order) micro version. The return value may be None, indicating that, though the version is known to the database, its release date is not; use $is_released()$ to determine whether such a version has been released yet.

Changed in version 1.0.0: Unknown release dates are now always returned as None

Parameters

version (*str*) – the version to fetch the release date of

Return type

Optional[datetime.date]

Raises

- UnknownVersionError if there is no micro version corresponding to version in the database
- ValueError if version is not a valid version string

```
subversions(version: str) \rightarrow list[str]
```

Returns a list in version order of all known subversions of the given version. If version is a major version, this is all of its micro versions. If version is a minor version, this is all of its micro versions.

Changed in version 1.0.0: Now returns all known subversions, released & unreleased

Parameters

version (str) – a major or minor version

Raises

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- UnknownVersionError if there is no entry for version in the database
- ValueError if version is not a valid major or minor version string

class pyversion_info.CPythonVersionInfo

Bases: VersionInfo

A class for storing & querying CPython versions, their release dates, and series EOL dates

Changed in version 1.0.0: This class was previously named PyVersionInfo

```
eol_date(version: str) \rightarrow date | None
```

Returns the end-of-life date of the given CPython version. The return value may be None, indicating that, though the version is known to the database, its EOL date is not; use *is_eol()* to determine whether such a version has reached end-of-life yet.

For a major version, this method returns the EOL date of the last subversion **if** every subversion is already end-of-life; otherwise, it returns None. For a micro version, this returns the EOL date of the corresponding minor version.

Changed in version 1.0.0: Unknown end-of-life dates are now always returned as None

Changed in version 1.1.0: Major and micro versions are now accepted

Parameters

version (str) – the version to fetch the end-of-life date of

Return type

Optional[datetime.date]

Raises

- *UnknownVersionError* if there is no entry for version in the end-of-life table
- ValueError if version is not a valid version string

$is_eol(series: str) \rightarrow bool$

Returns whether the given version has reached end-of-life yet. For a major version, this is whether every subversion has reached end-of-life. For a micro version, this is whether the corresponding minor version has reached end-of-life.

Changed in version 1.1.0: Major and micro versions are now accepted

Parameters

```
series (str) – a Python version number
```

Return type

bool

Raises

- *UnknownVersionError* if there is no entry for version in the end-of-life table
- ValueError if version is not a valid version string

$is_supported(version: str) \rightarrow bool$

Returns whether the given version is currently supported. For a micro version, this is whether it has been released and the corresponding minor version is not yet end-of-life. For a major or minor version, this is whether at least one subversion is supported.

Parameters

version (*str*) – the version to query the support status of

Return type

bool

Raises

UnknownVersionError – if there is no entry for version in the database

```
supported_series() \rightarrow list[str]
```

Returns a list in version order of all CPython version series (i.e., minor versions like 3.5) that are currently supported (i.e., that have at least one release made and are not yet end-of-life)

class pyversion_info.PyPyVersionInfo

Bases: VersionInfo

New in version 1.0.0.

A class for storing & querying PyPy versions, their release dates, and their corresponding CPython versions

```
supported_cpython(version: str) \rightarrow list[str]
```

Given a PyPy micro version, returns a list of the corresponding CPython micro versions in version order.

Raises

- UnknownVersionError if there is no entry for version in the database
- ValueError if version is not a valid micro version string

```
supported_cpython_series(version: str, released: bool = False) \rightarrow list[str]
```

Given a PyPy version, returns a list of all CPython series supported by that version or its subversions in version order. If released is true, only released versions are considered.

```
>>> db.supported_cpython_series("7.3.5")
['2.7', '3.7']
>>> db.supported_cpython_series("7.3")
['2.7', '3.6', '3.7', '3.8']
>>> db.supported_cpython_series("7")
['2.7', '3.5', '3.6', '3.7', '3.8']
```

Raises

- UnknownVersionError if there is no entry for version in the database
- ValueError if version is not a valid version string

exception pyversion_info.UnknownVersionError(version: str)

Bases: ValueError

Subclass of ValueError raised when a *VersionInfo* instance is asked for information about a version that does not appear in its database. Operations that result in an *UnknownVersionError* may succeed later as more Python versions are announced & released.

version

The unknown version the caller asked about

pyversion_info.DATA_URL

The default URL from which the version database is downloaded

pyversion_info.CACHE_DIR

The default directory in which the downloaded version database is cached

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COMMAND-LINE PROGRAM

```
pyversion-info [<global-options>] <command> [<args> ...]
```

pyversion-info provides a command of the same name for querying information about Python versions from the command line.

Currently, the **pyversion-info** command has two subcommands, **list** and **show**. By default, the commands provide information about CPython versions; to get information about PyPy versions instead, pass the --pypy option to the subcommand.

2.1 Global Options

-d <database>, --database <database>

Use the given JSON file as the version information database instead of fetching data from the default URL. <database> can be either an HTTP or HTTPS URL or a path to a local file.

2.2 pyversion-info list

```
pyversion-info [<global-options>] list [<options>] {major|minor|micro}
```

List all major, minor, or micro Python versions, one per line.

2.2.1 Options

-a, --all

List all known versions of the given level

--cpython

Show information about CPython versions. This is the default.

-n, --not-eol

Only list versions that have not yet reached end-of-life (i.e., all supported versions plus all unreleased versions). This may only be used when querying information about CPython versions.

--руру

Show information about PyPy versions

-r, --released

Only list released versions. This is the default.

-s, --supported

Only list currently-supported versions

2.3 pyversion-info show

```
pyversion-info [<global-options>] show [<options>] <version>
```

Show various information about a given Python version.

Sample outputs:

```
$ pyversion-info show 3
Version: 3
Level: major
Release-date: 2008-12-03
Is-released: yes
Is-supported: yes
EOL-Date: UNKNOWN
Is-EOL: no
Subversions: 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9
```

```
$ pyversion-info show 3.3
Version: 3.3
Level: minor
Release-date: 2012-09-29
Is-released: yes
Is-supported: no
EOL-date: 2017-09-29
Is-EOL: yes
Subversions: 3.3.0, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.3.7
```

```
$ pyversion-info show 3.9.5
Version: 3.9.5
Level: micro
Release-date: 2021-05-03
Is-released: yes
Is-supported: yes
EOL-Date: 2025-10-01
Is-EOL: no
```

```
$ pyversion-info show --pypy 7.3
Version: 7.3
Level: minor
Release-Date: 2019-12-23
Is-Released: yes
Subversions: 7.3.0, 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7
CPython-Series: 2.7, 3.6, 3.7, 3.8
```

\$ pyversion-info show --pypy 7.3.7

Version: 7.3.7 Level: micro

Release-Date: 2021-10-25

Is-Released: yes

CPython: 3.7.12, 3.8.12

2.3.1 Options

--cpython

Show information about CPython versions. This is the default.

-J, --json

Output JSON

--руру

Show information about PyPy versions

-S, --subversions <all|not-eol|released|supported>

Which subversions to list (and, for PyPy versions, which subversions to take into account when determining supported CPython versions); the choices have the same meanings as the **list** options of the same name [default: released]

THREE

CHANGELOG

3.1 v1.2.2 (2024-02-04)

- Support platformdirs v4.0
- Migrated from setuptools to hatch
- Support cachecontrol v0.14

3.2 v1.2.1 (2023-11-09)

- Support Python 3.12
- Correct the order of results returned by *PyPyVersionInfo.supported_cpython_series()*

3.3 v1.2.0 (2023-09-23)

- Support platformdirs v3.0
- Update pydantic to v2.0

3.4 v1.1.1 (2023-06-01)

- Support Python 3.11
- Support cachecontrol 0.13

3.5 v1.1.0 (2021-11-08)

- Use pydantic internally for parsing & validating version databases
- eol_date() and is_eol() now accept major and micro versions

3.6 v1.0.0 (2021-11-04)

- Support Python 3.10
- Drop support for Python 3.6
- Support for fetching information on PyPy versions has been added. With it come the following changes:
 - The schema used by the database (and thus the URL for the default database) has been modified
 - PyVersionInfo has been renamed to CPythonVersionInfo
 - A new *PyPyVersionInfo* class has been added
 - A new VersionDatabase class has been added, containing a CPythonVersionInfo instance and a PyPyVersionInfo instance
 - get_pyversion_info() is now VersionDatabase.fetch()
 - The command-line interface now takes a --pypy option for showing details about PyPy versions
- The unreleased argument to major_versions(), minor_versions(), micro_versions(), and subversions() has been removed; the methods now return all known versions, released & unreleased
- release_date() now returns None for any known version whose release date is unknown, whether it's been released yet or not. Use is_released() to determine whether such a version has been released.
- *eol_date()* now returns None for any known version whose EOL date is unknown, whether it's EOL yet or not. Use *is_eol()* to determine whether such a version has reached end-of-life.
- Moved documentation from README file to a Read the Docs site

3.7 v0.4.0 (2021-10-03)

- major_versions(), minor_versions(), micro_versions(), and subversions() now take optional unreleased arguments for including unreleased versions
- is_supported() now accepts major and micro versions
- UnknownVersionError now inherits ValueError
- · Added a command-line interface

3.8 v0.3.0 (2021-10-01)

- Add type annotations
- Switch from appdirs to platformdirs

3.9 v0.2.0 (2020-12-13)

- Support Python 3.8 and 3.9
- Add a note to the README about the possibility of release deadlines being missed
- Drop support for Python 2.7, 3.4, and 3.5
- Properly close the requests session after downloading the database

3.10 v0.1.0 (2019-04-23)

Initial release

Ever needed to know what Python versions were currently supported, or how many subversions a given Python version had? Wondering how long until a given version came out or reached end-of-life? Need to know what CPython versions a given PyPy version corresponds to? The answers to these and some other questions can be found with this library.

pyversion-info pulls its data every run from jwodder/pyversion-info-data on GitHub. Prerelease versions are not (currently) included. I promise 24-hour turnaround times for keeping the database up-to-date until I am hit by a bus.

FOUR

INSTALLATION

pyversion-info requires Python 3.7 or higher. Just use pip for Python 3 (You have pip, right?) to install pyversion-info and its dependencies:

python3 -m pip install pyversion-info

FIVE

EXAMPLES

(The given outputs are current as of 2021-11-04.)

Start out by fetching the database:

```
>>> from pyversion_info import VersionDatabase
>>> vd = VersionDatabase.fetch()
```

Get a list of all currently-supported CPython series:

```
>>> vd.cpython.supported_series()
['3.6', '3.7', '3.8', '3.9', '3.10']
```

When does 3.11 come out?

```
>>> vd.cpython.release_date("3.11")
datetime.date(2022, 10, 3)
```

When does 3.6 reach end-of-life?

```
>>> vd.cpython.eol_date("3.6")
datetime.date(2021, 12, 23)
```

Just how many micro versions does 3.9 have, anyway?

What major versions of PyPy are there?

```
>>> vd.pypy.major_versions()
['1', '2', '4', '5', '6', '7']
```

What CPython series do PyPy 7.3.* support?

```
>>> vd.pypy.supported_cpython_series("7.3")
['2.7', '3.6', '3.7', '3.8']
```

SIX

CAVEATS

The CPython database is generally only updated when an edit is made to a release schedule PEP. Occasionally, a deadline listed in a PEP is missed, but the PEP is not updated for a couple days, and so for a brief period this library will falsely report the given version as released.

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