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# **pep257 Documentation**

***Release 0.5.0***

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**pep257** is a static analysis tool for checking compliance with Python [PEP 257](#).

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## Usage

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### 1.1 Installation

Use `pip` or `easy_install`:

```
pip install pep257
```

Alternatively, you can use `pep257.py` source file directly—it is self-contained.

### 1.2 Command Line Interface

#### 1.2.1 Usage

```
Usage: pep257 [options] [<file|dir>...]
```

Options:

<code>--version</code>	show program's version number and exit
<code>-h, --help</code>	show this help message and exit
<code>-e, --explain</code>	show explanation of each error
<code>-s, --source</code>	show source for each error
<code>--select=&lt;codes&gt;</code>	choose the basic list of checked errors by specifying which errors to check for (with a list of comma-separated error codes). for example: <code>--select=D101,D202</code>
<code>--ignore=&lt;codes&gt;</code>	choose the basic list of checked errors by specifying which errors to ignore (with a list of comma-separated error codes). for example: <code>--ignore=D101,D202</code>
<code>--convention=&lt;name&gt;</code>	choose the basic list of checked errors by specifying an existing convention. Possible conventions: <code>pep257</code>
<code>--add-select=&lt;codes&gt;</code>	amend the list of errors to check for by specifying more error codes to check.
<code>--add-ignore=&lt;codes&gt;</code>	amend the list of errors to check for by specifying more error codes to ignore.
<code>--match=&lt;pattern&gt;</code>	check only files that exactly match <code>&lt;pattern&gt;</code> regular expression; default is <code>--match='(?!test_).*\.py'</code> which matches files that don't start with 'test_' but end with '.py'
<code>--match-dir=&lt;pattern&gt;</code>	search only dirs that exactly match <code>&lt;pattern&gt;</code> regular expression; default is <code>--match-dir='^[^\.].*'</code> , which

-d, --debug	matches all dirs that don't start with a dot
-v, --verbose	print debug information
--count	print status information
	print total number of errors to stdout

## 1.2.2 Return Code

0	Success - no violations
1	Some code violations were found
2	Illegal usage - see error message

## 1.2.3 Configuration Files

pep257 looks for a config file in the root of the project (the common prefix of all checked files) and goes up in the directory tree until it finds one of the following files (in this order):

- setup.cfg
- tox.ini
- .pep257

The first found file is read, and configurations in the [pep257] section are used, if such a section exists.

### Example

```
[pep257]
verbose = true
ignore = D100,D203,D405
explain = true
```

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## Error Codes

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### 2.1 Grouping

<b>Missing Docstrings</b>	
D100	Missing docstring in public module
D101	Missing docstring in public class
D102	Missing docstring in public method
D103	Missing docstring in public function
D104	Missing docstring in public package
<b>Whitespace Issues</b>	
D200	One-line docstring should fit on one line with quotes
D201	No blank lines allowed before function docstring
D202	No blank lines allowed after function docstring
D203	1 blank line required before class docstring
D204	1 blank line required after class docstring
D205	1 blank line required between summary line and description
D206	Docstring should be indented with spaces, not tabs
D207	Docstring is under-indented
D208	Docstring is over-indented
D209	Multi-line docstring closing quotes should be on a separate line
D210	No whitespaces allowed surrounding docstring text
<b>Quotes Issues</b>	
D300	Use <code>"""triple double quotes"""</code>
D301	Use <code>r"""</code> if any backslashes in a docstring
D302	Use <code>u"""</code> for Unicode docstrings
<b>Docstring Content Issues</b>	
D400	First line should end with a period
D401	First line should be in imperative mood
D402	First line should not be the function's "signature"



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## Release Notes

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### 3.1 Current Development Version

#### New Features

- Added the D104 error code - “Missing docstring in public package”. This new error is turned on by default. Missing docstring in `__init__.py` files which previously resulted in D100 errors (“Missing docstring in public module”) will now result in D104 (#105, #127).
- Support the option to exclude all error codes. Running `pep257` with `--select=` (or `select=` in the configuration file) will exclude all errors which could then be added one by one using `add-select`. Useful for projects new to `pep257` (#132, #135).

#### Bug Fixes

- On Python 2.x, D302 (“Use u””” for Unicode docstrings”) is not reported if `unicode_literals` is imported from `__future__` (#113, #134).
- Fixed a bug where there was no executable for `pep257` on Windows (#73, #136).

### 3.2 0.6.0 - July 20th, 2015

#### New Features

- Added support for more flexible error selections using `--ignore`, `--select`, `--convention`, `--add-ignore` and `--add-select` (#96, #123).

#### Bug Fixes

- Property setter and deleter methods are now treated as private and do not require docstrings separate from the main property method (#69, #107).
- Fixed an issue where `pep257` did not accept docstrings that are both unicode and raw in Python 2.x (#116, #119).
- Fixed an issue where Python 3.x files with Unicode encodings were not read correctly (#118).

### 3.3 0.5.0 - March 14th, 2015

#### New Features

- Added check D210: No whitespaces allowed surrounding docstring text (#95).

- Added real documentation rendering using Sphinx (#100, #101).

#### Bug Fixes

- Removed log level configuration from module level (#98).
- D205 used to check that there was *a* blank line between the one line summary and the description. It now checks that there is *exactly* one blank line between them (#79).
- Fixed a bug where `--match-dir` was not properly respected (#108, #109).

## 3.4 0.4.1 - January 10th, 2015

#### Bug Fixes

- Getting `ImportError` when trying to run pep257 as the installed script (#92, #93).

## 3.5 0.4.0 - January 4th, 2015

<b>Warning:</b> A fatal bug was discovered in this version (#92). Please use a newer version.
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#### New Features

- Added configuration file support (#58, #87).
- Added a `--count` flag that prints the number of violations found (#86, #89).
- Added support for Python 3.4, PyPy and PyPy3 (#81).

#### Bug Fixes

- Fixed broken tests (#74).
- Fixed parsing various colon and parenthesis combinations in definitions (#82).
- Allow for greater flexibility in parsing `__all__` (#67).
- Fixed handling of one-liner definitions (#77).

## 3.6 0.3.2 - March 11th, 2014

First documented release!

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### License

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**Quick Start**

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**1. Install**

```
pip install pep257
```

**2. Run**

```
$ pep257 test.py
test.py:18 in private nested class `meta`:
    D101: Docstring missing
test.py:22 in public method `method`:
    D102: Docstring missing
...
```

**3. Fix your code :)**



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**Credits**

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