pep257 Documentation

Release 0.4.1

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pep257 is a static analysis tool for checking compliance with Python PEP 257.

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CHAPTER 1

Usage

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:
--version             show program’s version number and exit
-h, --help            show this help message and exit
-e, --explain         show explanation of each error
-s, --source          show source for each error
--ignore=<codes>      ignore a list comma-separated error codes, for
                        example: --ignore=D101,D202
--match=<pattern>     check only files that exactly match <pattern> regular
                        expression; default is --match=’(?!test_).*\.py’ which
                        matches files that don’t start with ’test_’ but end
                        with ’.py’
--match-dir=<pattern>
                        search only dirs that exactly match <pattern> regular
                        expression; default is --match-dir=’[^\.].*’, which
                        matches all dirs that don’t start with a dot
-d, --debug           print debug information
-v, --verbose         print status information
--count               print total number of errors to stdout
```

1.2.2 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
```

CHAPTER 2

Error Codes

2.1 Grouping

Missing Docstrings	
D100	Missing docstring in public module
D101	Missing docstring in public class
D102	Missing docstring in public method
D103	Missing docstring in public function
Whitespace Issues	
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
Quotes Issues	
D300	Use “”“triple double quotes”“”
D301	Use r”“” if any backslashes in a docstring
D302	Use u”“” for Unicode docstrings
Docstring Content Issues	
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”

CHAPTER 3

Release Notes

3.1 Current Development Version

3.2 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).

3.3 0.4.1 - January 10th, 2015

Bug Fixes

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

3.4 0.4.0 - January 4th, 2015

Warning: A fatal bug was discovered in this version (#92). Please use a newer version.

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).

3.5 0.3.2 - March 11th, 2014

First documented release!

License

CHAPTER 5

Quick Start

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 :)

Credits

Created by Vladimir Keleshev.

Maintained by Amir Rachum.