pep257 Documentation

Release 0.5.0

Vladimir Keleshev

October 09, 2015

Contents

1	Usage	3			
	1.1 Installation	3			
	1.2 Command Line Interface	3			
2	Error Codes	7			
	2.1 Grouping	7			
	2.2 Default Checks	7			
3	Release Notes	9			
	3.1 0.7.0 - October 9th, 2015	9			
	3.2 0.6.0 - July 20th, 2015	9			
	3.3 0.5.0 - March 14th, 2015				
		10			
	3.5 0.4.0 - January 4th, 2015	10			
	3.6 0.3.2 - March 11th, 2014				
4	License				
5	Quick Start				
6	6 Credits				

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

Contents:

Contents 1

2 Contents

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:
                        show program's version number and exit
 --version
 -h, --help
                        show this help message and exit
                        show explanation of each error
 -e, --explain
 -s, --source
                        show source for each error
  --select=<codes>
                        choose the basic list of checked errors by specifying
                        which errors to check for (with a list of comma-
                        separated error codes). for example:
                        --select=D101,D202
 --ignore=<codes>
                        choose the basic list of checked errors by specifying
                        which errors to ignore (with a list of comma-separated
                        error codes). for example: --ignore=D101,D202
 --convention=<name>
                        choose the basic list of checked errors by specifying
                        an existing convention. Possible conventions: pep257
  --add-select=<codes>
                       amend the list of errors to check for by specifying
                        more error codes to check.
                        amend the list of errors to check for by specifying
  --add-ignore=<codes>
                        more error codes to ignore.
                        check only files that exactly match <pattern> regular
  --match=<pattern>
                        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 Return Code

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

1.2.3 Configuration Files

pep257 supports *ini*-like configuration files. In order for pep257 to use it, it must be named setup.cfg, tox.ini or .pep257 and have a [pep257] section.

When searching for a configuration file, pep257 looks for one of the file specified above *in that exact order*. If a configuration file was not found, it keeps looking for one up the directory tree until one is found or uses the default configuration.

Available Options

Not all configuration options are available in the configuration files. Available options are:

- convention
- select
- ignore
- add_select
- add_ignore
- match
- match_dir

See the *Usage* section for more information.

Inheritance

By default, when finding a configuration file, pep257 tries to inherit the parent directory's configuration and merge them to the local ones.

The merge process is as follows:

- If one of select, ignore or convention was specified in the child configuration Ignores the parent configuration and set the new error codes to check. Othewise, Simply copies the parent checked error codes.
- If add-ignore or add-select were specified, adds or removes the specified error codes from the checked error codes list.
- If match or match-dir were specified use them. Otherwise, use the parent's.

4 Chapter 1. Usage

In order to disable this (useful for configuration files located in your repo's root), simply add inherit=false to your configuration file.

Note: If any of select, ignore or convention were specified in the CLI, the configuration files will take no part in choosing which error codes will be checked. match and match-dir will still take effect.

Example

```
[pep257]
inherit = false
ignore = D100,D203,D405
match = *.py
```

6 Chapter 1. Usage

Error Codes

2.1 Grouping

Missin	g 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			
D104	Missing docstring in public package			
D105	Missing docstring in magic method			
Whites	space 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			
D211	No blank lines allowed before class docstring			
_	SIssues			
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"			

2.2 Default Checks

Not all error codes are checked for by default. The default behavior is to check only error codes that are part of the PEP257 official convention.

All of the above error codes are checked for by default except for D203.

Release Notes

3.1 0.7.0 - October 9th, 2015

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).
- Added the D105 error code "Missing docstring in magic method". This new error is turned on by default. Missing docstrings in magic method which previously resulted in D102 error ("Missing docstring in public method") will now result in D105. Note that exceptions to this rule are variadic magic methods specifically __init__, __call__ and __new__, which will be considered non-magic and missing docstrings in them will result in D102 (#60, #139).
- 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).
- Added check D211: No blank lines allowed before class docstring. This change is a result of a change to the
 official PEP257 convention. Therefore, D211 will now be checked by default instead of D203, which required
 a single blank line before a class docstring (#137).
- Configuration files are now handled correctly. The closer a configuration file is to a checked file the more it matters. Configuration files no longer support explain, source, debug, verbose or count (#133).

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

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).

3.6 0.3.2 - March 11th, 2014

First documented release!

License

Copyright (c) 2012 GreenSteam, http://greensteam.dk/>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

12 Chapter 4. License

Quick Start

1. Install

```
pip install pep257
```

2. Run

3. Fix your code :)

CHAPTER 6)
-----------	---

Credits

Created by Vladimir Keleshev.

Maintained by Amir Rachum.