

Checking Your Code Quality With Pylint

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hardcore dev and IT training

Overview

- Find common errors
- Follow standard code style guidelines
- PEP8
- Pylint

PEP8: Style Guide for Python Code

- **PEP: Python Enhancement Proposal.**
 - Provide information to the Python community, or
 - Describe a new feature for Python
- **PEP8: Style Guide for Python Code**
 - Code Lay-out
 - Whitespace
 - Comments
 - Naming Conventions

Layout

- **It's about readability**
- **Indentation: 4 spaces per level**
- **Line length max. 79 characters**
- **Blank lines:**
 - 2 lines between top-level functions and classes
 - 1 line between methods inside a class
- **Imports**
- **Use of spaces in expressions**
- **If you don't know the rules, your tools will tell you (mostly)**

Documentation and Naming

- **Docstrings for all public modules, functions, classes and methods**
- **Naming:**
 - Modules: short, lowercase names
 - Classes: CapitalizedNaming
 - Functions and methods: lowercase_with_underscores
 - Constants: ALL_CAPS
 - Non-public names start with underscore
- **Programming Recommendations**
 - ... and more

Pylint

- Static code checker
- PEP8
- Error detection (code smells)
- Code duplication
- Very configurable
- Integration with many IDE's

Running pylint

- **pylint package_or_module**
 - Only messages: -r n
- **pylint --help**
- **pylint-gui**
- **Disable messages in your code:**
 - # pylint: disable=message-name
- **pylint --generate-rcfile > pylintrc**
 - Generates a pylint config file
 - pylintrc in cwd, home directory or per package

Resources

- **PEP8 (<http://goo.gl/3KwrkU>)**
 - <http://legacy.python.org/dev/peps/pep-0008/>
- **All PEPs (<http://goo.gl/p1vmLf>)**
 - <http://legacy.python.org/dev/peps/>
- **Pylint documentation: <http://www.pylint.org>**



Summary

- PEP8
- Pylint