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Python static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your PYTHON code

All rules 216

 Vulnerability 29

 Bug 55

 Security Hotspot 31

 Code Smell 101

Tags ▾

Search by name... 

| |
|--|
| Functions should not have too many lines of code |
|  Code Smell |
| Track uses of "NOSONAR" comments |
|  Code Smell |
| Track comments matching a regular expression |
|  Code Smell |
| Statements should be on separate lines |
|  Code Smell |
| Functions should not contain too many return statements |
|  Code Smell |
| Files should not have too many lines of code |
|  Code Smell |
| Lines should not be too long |
|  Code Smell |
| Methods and properties that don't access instance data should be static |
|  Code Smell |
| New-style classes should be used |
|  Code Smell |
| Parentheses should not be used after certain keywords |
|  Code Smell |
| Track "TODO" and "FIXME" comments that do not contain a reference to a person |
|  Code Smell |
| Module names should comply with a naming convention |

A field should not duplicate the name of its containing class

Analyze your code

 Code Smell

 Major ?

 brain-overload

It's confusing to have a class member with the same name (case differences aside) as its enclosing class. This is particularly so when you consider the common practice of naming a class instance for the class itself.

Best practice dictates that any field or member with the same name as the enclosing class be renamed to be more descriptive of the particular aspect of the class it represents or holds.

Noncompliant Code Example

```
class Foo:
    foo = ''

    def getFoo(self):
        ...

foo = Foo()
foo.getFoo() # what does this return?
```

Compliant Solution

```
class Foo:
    name = ''

    def getName(self):
        ...

foo = Foo()
foo.getName()
```

Available In:

 |  | 

 Code Smell

Comments should not be located at the end of lines of code

 Code Smell

Lines should not end with trailing whitespaces

 Code Smell

Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell