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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

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 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

Docstrings should be defined

Analyze your code

 Code Smell

 Major



A string literal that is the first statement in a module, function, class, or method is a docstring. A docstring should document what a caller needs to know about the code. Information about what it does, what it returns, and what it requires are all valid candidates for documentation. Well written docstrings allow callers to use your code without having to first read it and understand its logic.

By convention, docstrings are enclosed in three sets of double-quotes.

Noncompliant Code Example

```
def my_function(a,b):
```

Compliant Solution

```
def my_function(a,b):  
    """Do x"""
```


Available In:

sonarlint 

sonarcloud 

sonarqube 

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

 Code Smell

Lines should not end with trailing whitespaces

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Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell