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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

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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

Unused local variables should be removed

Analyze your code

Code Smell

Minor

unused

If a local variable is declared but not used, it is dead code and should be removed. Doing so will improve maintainability because developers will not wonder what the variable is used for.

Noncompliant Code Example

```
def hello(name):
    message = "Hello " + name # Noncompliant
    print(name)
    for i in range(10):
        foo()
```

Compliant Solution

```
def hello(name):
    message = "Hello " + name
    print(message)
    for _ in range(10):
        foo()
```


Exceptions

`_` as well as tuples will not raise an issue for this rule. The following examples are compliant:


```
for _ in range(10):
    do_something()
username, login, password = auth
do_something_else(username, login)
```

Available In:

sonarlint | sonarcloud | sonarqube

 Code Smell


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

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Long suffix "L" should be upper case

 Code Smell