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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 ▾

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"__exit__" should accept type, value, and traceback arguments	Bug
"return" and "yield" should not be used in the same function	Bug
Track lack of copyright and license headers	Code Smell
HTTP response headers should not be vulnerable to injection attacks	Vulnerability
Regular expressions should be syntactically valid	Bug
Sending emails is security-sensitive	Security Hotspot
Reading the Standard Input is security-sensitive	Security Hotspot
Using command line arguments is security-sensitive	Security Hotspot
Encrypting data is security-sensitive	Security Hotspot
Using regular expressions is security-sensitive	Security Hotspot
Dynamically executing code is security-sensitive	Security Hotspot
Cyclomatic Complexity of functions	

The output of functions that don't return anything should not be used

Analyze your code

Bug Major ?

If a function does not return anything, it makes no sense to use its output. Specifically, passing it to another function, or assigning its "result" to a variable is probably a bug because such functions return nothing, which is probably not what was intended.

Noncompliant Code Example


```
def foo():
    l = [1, 2, 3]
    result = l.append(42) # Noncompliant, `append` mutate
    return result
```

Compliant Solution


```
def foo():
    l = [1, 2, 3]
    l.append(42)
    return l
```

Available In:
sonarlint | sonarcloud | sonarqube


Cyclomatic Complexity of functions should not be too high

 Code Smell

Control flow statements "if", "for", "while", "try" and "with" should not be nested too deeply

 Code Smell

Cyclomatic Complexity of classes should not be too high

 Code Smell

"\" should only be used as an escape character outside of raw strings

 Bug

Using shell interpreter when executing OS commands is security-sensitive