sonar RULES

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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

Unused scope-limited definitions should be removed

Analyze your code

Code Smell | Major | unused

When a class or function is defined in a parent function or method, it is only visible in this parent function or method’s scope. If the defined class or function is not used within this scope it is dead code, i.e. unnecessary, inoperative code that should be removed. Cleaning out dead code decreases the size of the maintained codebase, making it easier to understand the program and preventing bugs from being introduced.

Noncompliant Code Example

```
def noncompliant():
    def nested_function():  # Noncompliant
        print("nested_function")

    class NestedClass:  # Noncompliant
        def __init__(self):
            print("NestedClass")
```

Compliant Solution

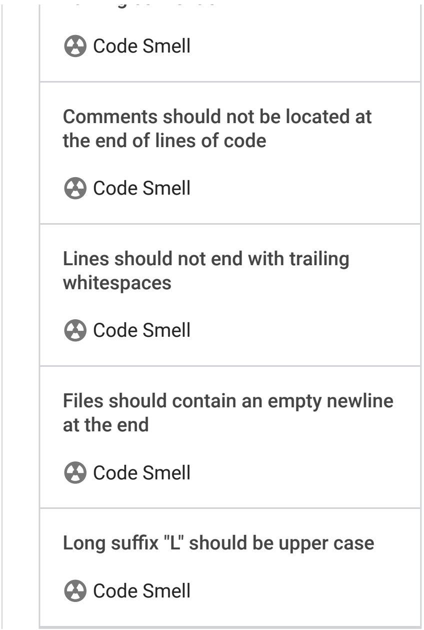
```
def compliant():
    def nested_function():
        print("nested_function")

    class NestedClass:
        def __init__(self):
            print("NestedClass")

    nested_function()
    NestedClass()
```

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

Code Smell

Files should contain an empty newline at the end

Code Smell

Long suffix "L" should be upper case

Code Smell