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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

Code Smell

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

Analyze your code

Code Smell Critical brain-overload

Nested if, for, while, try, and with statements are key ingredients for making what's known as "Spaghetti code". Such code is hard to read, refactor and therefore maintain.

Noncompliant Code Example

The following code snippet illustrates this rule with the default threshold of 3.

```
if condition1:           # Compliant - depth = 1
    # ...
    if condition2:       # Compliant - depth = 2
        # ...
        for i in range(10): # Compliant - depth = 3, not exce
            # ...
            if condition4:  # Non-Compliant - depth = 4
                if condition5: # Depth = 5, exceeding the limit,
                    # ...
```

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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

⚠ Code Smell

Files should contain an empty newline at the end

⚠ Code Smell

Long suffix "L" should be upper case

⚠ Code Smell