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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	
Track uses of "NOSONAR" comments	
Track comments matching a regular expression	
Statements should be on separate lines	
Functions should not contain too many return statements	
Files should not have too many lines of code	
Lines should not be too long	
Methods and properties that don't access instance data should be static	
New-style classes should be used	
Parentheses should not be used after certain keywords	
Track "TODO" and "FIXME" comments that do not contain a reference to a person	
Module names should comply with a naming convention	

Functions should not contain too many return statements

Analyze your code

 Code Smell

 Major 

 brain-overload

Having too many return statements in a function increases the function's essential complexity because the flow of execution is broken each time a return statement is encountered. This makes it harder to read and understand the logic of the function.

Noncompliant Code Example

With the default threshold of 3:

```
def fun():          # Noncompliant as there are 4 return statements
    if condition1:
        return True
    elif condition2:
        return False
    else:
        return True
    return False
```


Available In:

 sonarlint

 sonarcloud

 sonarqube


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 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