

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C#
- CSS
- Flex
- Go
- HTML
- Java
- JavaScript
- Kotlin
- Objective C
- PHP
- PL/I
- PL/SQL
- Python**
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML



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
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Module names should comply with a naming convention

Functions should use "return" consistently

Analyze your code

Code Smell

Major ?

api-design confusing

Because it is dynamically typed, Python does not enforce a return type on a function. This means that different paths through a function can return different types of values, which can be very confusing to the user and significantly harder to maintain.

In particular, it is consequently also possible to mix empty return statements (implicitly returning None) with some returning an expression. This rule verifies that all the return statements from a function are consistent.

Noncompliant Code Example

```
def foo(a): # Noncompliant, function will return "true"
    if a == 1:
        return True
    return
```

Compliant Solution


```
def foo(a):
    if a == 1:
        return True
    return False
```

or


```
def foo(a):
    if a == 1:
        return True
    return None
```

Available In:


sonarlint | sonarcloud | sonarqube

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Comments should not be located at the end of lines of code

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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

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