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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

Values assigned to variables should match their type

Analyze your code annotations

Code Smell

Major

Type hints can be used to communicate the intended type of a given variable. These are not enforced at runtime and not respecting them might not necessarily lead to runtime errors.

It is however confusing and could lead to maintainability issues.

Noncompliant Code Example

```
def my_function():
    my_int: int = "string" # Noncompliant
```

Compliant Solution

```
def my_function():
    my_str: str = "string"
```

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

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Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell