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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

Expressions creating dictionaries should not have duplicate keys

Analyze your code

Code Smell Major

A dictionary cannot have two values with the same key. When a key is repeated in a dictionary literal, only the last occurrence will remain. Thus duplicate keys should be either modified or removed.

This rule raises an issue when the same value is used multiple times as a key in a dictionary literal.

Noncompliant Code Example

```
{ "one": 1, "two": 2, "one": 3 } # Noncompliant

def func(a1, a2, a3):
    {a1: 1, a2: 2, a1: 3} # Noncompliant.
```

Compliant Solution

```
{ "one": 1, "two": 2, "three": 3 }

def func(a1, a2, a3):
    {a1: 1, a2: 2, a3: 3}
```

See

- Python documentation - Dictionary displays

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