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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

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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

Variables, classes and functions should be either defined or imported

Analyze your code

🐛 Bug   ❗Blocker ?

Variables, Classes and functions should not be undefined, otherwise the code will fail with a NameError.

Noncompliant Code Example

```
my_var # Noncompliant (variable is never defined)

def noncompliant():
    foo()  # Noncompliant
    MyClass()  # Noncompliant
```

Compliant Solution

```
from mod import my_var

my_var

def compliant():
    foo = sum
    foo()

    class MyClass:
        pass
    MyClass()
```

Available In:

sonarlint 😖 | sonarcloud ⬡ | sonarqube 📶

naming convention

⊗ 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