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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

Boolean checks should not be inverted

Analyze your code

Code Smell Minor ? pitfall

It is needlessly complex to invert the result of a boolean comparison. The opposite comparison should be made instead.

Noncompliant Code Example

```
if not a == 2:           # Noncompliant
    b = not i < 10       # Noncompliant
```

Compliant Solution

```
if a != 2 :
    b = i >= 10
```

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

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Files should contain an empty newline at the end

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Long suffix "L" should be upper case

 Code Smell