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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

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Code Smell 101

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Functions should not have too many lines of code
Code Smell
Track uses of "NOSONAR" comments
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Track comments matching a regular expression
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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
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Parentheses should not be used after certain keywords
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Track "TODO" and "FIXME" comments that do not contain a reference to a person
Code Smell
Module names should comply with a naming convention

Regular expressions should not contain empty groups

Analyze your code

Code Smell

Major ?

regex

- There are several reasons to use a group in a regular expression:
- to change the precedence (e.g. `do(g|or)` will match 'dog' and 'door')
 - to remember parenthesised part of the match in the case of capturing group
 - to improve readability

In any case, having an empty group is most probably a mistake. Either it is a leftover after refactoring and should be removed, or the actual parentheses were intended and were not escaped.

Noncompliant Code Example

```
r"foo()" # Noncompliant, will match only 'foo'
```

Compliant Solution

```
r"foo\(\)" # Matches 'foo()'
```

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

 Code Smell