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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

Non-capturing groups without quantifier should not be used

Analyze your code

Code Smell Major ? regex

Sub-patterns can be wrapped by parentheses to build a group. This enables to restrict alternations, back reference the group or apply quantifier to the sub-pattern.

If this group should not be part of the match result or if no reference to this group is required, a non-capturing group can be created by adding : ? behind the opening parenthesis.

However, if this non-capturing group does not have a quantifier, or does not wrap an alternation, then imaging this group is redundant.

Noncompliant Code Example

```
r"(?:number)\d{2}"
```

Compliant Solution

```
r"number\d{2}"  
r"(?:number)?\d{2}"
```

Exceptions

This rule does not report an issue if the non-capturing group is an alternation.

```
r"(?:number|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

 Code Smell

Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell