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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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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
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Files should not have too many lines of code
Code Smell
Lines should not be too long
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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
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

Repeated patterns in regular expressions should not match the empty string

Analyze your code

Bug

Minor

regex

A regex should never include a repetitive pattern whose body would match the empty string. This is usually a sign that a part of the regex is redundant or does not do what the author intended.

Noncompliant Code Example

```
r"(?:)*"      # same as the empty regex, the '*' accomp
r"(?:|x)*"    # same as the empty regex, the alternativ
r"(?:x|)*"    # same as 'x*', the empty alternative has
r"(?:x*|y*)"  # same as 'x*', the first alternative wou
r"(?:x?)*"    # same as 'x*'
r"(?:x?)+"
```

Compliant Solution

```
r"x*"
```

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