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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

Tags

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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
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Functions should not contain too many return statements
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Files should not have too many lines of code
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Lines should not be too long
Code Smell

Methods and properties that don't access instance data should be static
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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

Functions should not have too many lines of code

Analyze your code

Code Smell | Major | brain-overload

A function that grows too large tends to aggregate too many responsibilities.

Such functions inevitably become harder to understand and therefore harder to maintain.

Above a specific threshold, it is strongly advised to refactor into smaller functions which focus on well-defined tasks.

Those smaller functions will not only be easier to understand, but also probably easier to test.

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

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