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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 ⌄   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

Two branches in a conditional structure should not have exactly the same implementation

Analyze your code

☢ Code Smell   🔺 Major ❓   🏷 design suspicious

Having two branches in the same `if` structure with the same implementation is at best duplicate code, and at worst a coding error. If the same logic is truly needed for both instances, then they should be combined.

Noncompliant Code Example

```
if 0 <= a < 10:
    do_first()
    do_second()
elif 10 <= a < 20:
    do_the_other_thing()
elif 20 <= a < 50:
    do_first()          # Noncompliant; duplicates first c
    do_second()
```

Exceptions

Blocks in an `if` chain that contain a single line of code are ignored.

```
if 0 <= a < 10:
    do_first()
elif 10 <= a < 20:
    do_the_other_thing()
elif 20 <= a < 50:
    do_first()          # no issue, usually this is done o
```

But this exception does not apply to `if` chains without `else`-s when all branches have the same single line of code. In case of `if` chains with `else`-s rule {rule:python:S3923} raises a bug.

```
if 0 <= a < 10:
    do_first()
elif 20 <= a < 50:
    do_first()          # Noncompliant, this might have be
```

Available In:

sonarlint ⬡ | sonarcloud ☁ | sonarqube 📶

Code Smell

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

Code Smell

Long suffix "L" should be upper case

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