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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)

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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

Regular expressions should not contain multiple spaces

Analyze your code

☢ Code Smell   ◈ Major ?   🏷 regex

Multiple spaces in a regular expression can make it hard to tell how many spaces should be matched. It's more readable to use only one space and then indicate with a quantifier how many spaces are expected.

Noncompliant Code Example

```
r"Hello,   world!"
```

Compliant Solution

```
r"Hello, {3}world!"
```

Exceptions

If the extended modifier `re.X` or `re.VERBOSE` is set, whitespaces are ignored. In this case no issue should be triggered, because the whitespaces may be intended to improve readability.

Available In:

sonarlint ◎ | sonarcloud ◌ | sonarqube ⦚

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naming convention

⊗ 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