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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

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

Regular expressions should be syntactically valid

Analyze your code

Bug Critical ? regex

Regular expressions have their own syntax that is understood by regular expression engines. Those engines will throw an exception at runtime if they are given a regular expression that does not conform to that syntax.

To avoid syntax errors, special characters should be escaped with backslashes when they are intended to be matched literally and references to capturing groups should use the correctly spelled name or number of the group.

To match a literal string, rather than a regular expression, either all special characters should be escaped or methods that don't use regular expressions should be used.

Noncompliant Code Example

```
re.compile(r"([")
re.sub(r"([", input, "{")
re.compile(r"(\w+-(\d+)")
```

Compliant Solution

```
re.compile(r"\([")
input.replace("([", "{")
re.compile(r"(\w+)-(\d+)")
```

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