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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
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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

Unused function parameters should be removed

Analyze your code

Code Smell | Major | unused

Unused parameters are misleading. Whatever the value passed to such parameters is, the behavior will be the same.

Noncompliant Code Example

```
def do_something(a, b): # "b" is unused
  return compute(a)
```

Compliant Solution

```
def do_something(a):
  return compute(a)
```

Exceptions

Overriding methods are ignored.

```
class C(B):
  def do_something(self, a, b): # no issue reported on
    return self.compute(a)
}
```

Throwaway variables _.

```
def do_something(a, _): # no issue reported on _
  return compute(a)
```

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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