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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
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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
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Methods and properties that don't access instance data should be static
 Code Smell
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
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Module names should comply with a naming convention

Function return types should be consistent with their type hint

Analyze your code hint

 Code Smell  Major 

Developers can use type hints to specify which type a function is expected to return. These annotations are not enforced at runtime and returning a different type might not fail. It is however likely to be unintended and will lead to maintainability issues, if not bugs.

This rule raises an issue when a function or method returns a value that contradicts its type hint.

Noncompliant Code Example

```
def hello() -> str:
    return 42 # Noncompliant. Function's type hint ask
```

Compliant Solution

```
def hello() -> str:
    return "Hello"
```

See

- [Python documentation - Support for type hints](#)

Available In:

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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

 Code Smell