

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C#
- CSS
- Flex
- Go
- HTML
- Java
- JavaScript
- Kotlin
- Objective C
- PHP
- PL/I
- PL/SQL
- Python**
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML



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

Builtins should not be shadowed by local variables

Analyze your code

Code Smell Major bad-practice confusing pitfall

Shadowing a builtin makes your code more difficult to read and maintain. It may also be a source of bugs as you can reference the builtin by mistake.

It is sometimes ok to shadow a builtin to improve the readability of a public API or to support multiple versions of a library. In these cases the value is higher than the maintainability cost. Just be careful when you do it.

It is not ok to shadow builtins with variables which are local to a function or method. These variables are not public and can be easily renamed, thus reducing the confusion and making the code less error-prone.

This rule raises an issue when the name of a local variable matches the name of a builtin.

Noncompliant Code Example

```
def a_function():
    int = 42 # Noncompliant; int is a builtin
```

Compliant Solution

```
def a_function():
    value = 42
```

See

- [Python documentation - Built-in Types](#)
- [Python documentation - Built-in Functions](#)

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

 Code Smell

Long suffix "L" should be upper case

 Code Smell