

-  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

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
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Module names should comply with a naming convention

Functions, methods and lambdas should not have too many parameters

Analyze your code

 Code Smell

 Major 

 brain-overload

A long parameter list can indicate that a new structure should be created to wrap the numerous parameters or that the function is doing too many things.

Noncompliant Code Example

With a maximum number of 4 parameters:

```
def do_something(param1, param2, param3, param4, param5
    ...
```

Compliant Solution

```
def do_something(param1, param2, param3, param4):
    ...
```

Exceptions

The first argument of non-static methods, i.e. `self` or `cls`, is not counted as it is mandatory and it is passed automatically.

Available In:

 |  | 

 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

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Long suffix "L" should be upper case

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