

- 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

Code Smell

Module names should comply with a naming convention

Regular expression quantifiers and character classes should be used concisely

Analyze your code

Code Smell Minor ? regex

With regular expressions syntax, it's possible to express the same thing in many ways. For example, to match a two-digit number, one could write `[0-9]{2,2}` or `\d{2}`. Latter is not only shorter in terms of expression length, but also easier to read and thus to maintain. This rule recommends to replace some bulky quantifiers and character classes with more concise equivalents:

- `\d` for `[0-9]` and `\D` for `[^0-9]`
- `\w` for `[A-Za-z0-9_]` and `\W` for `[^A-Za-z0-9_]`
- `.` for character classes matching everything (e.g. `[\w\W]`, `[\d\D]`, or `[\s\S]` with `s` flag)
- `x{2}` for `x{0,1}, x*` for `x{0,}`, `x+` for `x{1,}`, `x{N}` for `x{N,N}`

Noncompliant Code Example

```
r"[0-9]" # Noncompliant - same as r"\d"
r"[^0-9]" # Noncompliant - same as r"\D"
r"[A-Za-z0-9_]" # Noncompliant - same as r"\w"
r"[\w\W]" # Noncompliant - same as r"."
r"a{0,}" # Noncompliant - same as r"a*
```

Compliant Solution

```
r"\d"
r"\D"
r"\w"
r"."
r"a*
```

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