



C#

3 CSS

 \bowtie Flex

-GO Go

HTML 5

Java

JavaScript

Kotlin

Objective C

PHP Oil

PL/I

PL/SQL

Python

RPG

1 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) 6 Vulnerability 29 **∰** Bug (55)

Tags

Security Hotspot 31

Code Smell (101)

Search by name...

runctions snould not have too many

lines of code A 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

A Code Smell

Files should not have too many lines of code

A 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

A 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

Code Smell

Regular expressions should not be too complicated

Analyze your code

Overly complicated regular expressions are hard to read and to maintain and can easily cause hard-to-find bugs. If a regex is too complicated, you should consider replacing it or parts of it with regular code or splitting it apart into multiple patterns

The complexity of a regular expression is determined as follows:

Each of the following operators increases the complexity by an amount equal to the current nesting level and also increases the current nesting level by one for its arguments:

- | when multiple | operators are used together, the subsequent ones only increase the complexity by 1
- Quantifiers (*, +, ?, {n,m}, {n,} or {n})
- Non-capturing groups that set flags (such as (?i:some_pattern) or (? i)some pattern)
- Lookahead and lookbehind assertions

Additionally, each use of the following features increase the complexity by 1 regardless of nesting:

- character classes
- back references

Noncompliant Code Example

```
p = re.compile(r"^(?:(?:31(\/|-|\.)(?:0?[13578]|1[02]))\1|(?))
if p.match($dateString):
    handleDate($dateString)
```

Compliant Solution

```
p = re.compile("^\d{1,2}([-/.])\d{1,2}\1\d{1,4}$")
if p.match($dateString):
    dateParts = re.split(r"[-/.]", dateString)
    day = intval(dateParts[0])
    month = intval(dateParts[1])
    year = intval($dateParts[2])
    // Put logic to validate and process the date based on \ensuremath{\text{i}}
```

Available In:

sonarlint ⊕ | sonarcloud ↔ | sonarqube



© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved. Privacy Policy

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