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Java static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVA code

All rules 632 | Vulnerability 53 | Bug 154 | Security Hotspot 36 | Code Smell 389 | Quick Fix 42

Tags | Search by name...

Abstract class names should comply with a naming convention
Code Smell

Strings literals should be placed on the left side when checking for equality
Code Smell

Files should contain an empty newline at the end
Code Smell

Source code should be indented consistently
Code Smell

A close curly brace should be located at the beginning of a line
Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be on two different lines
Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be located on the same line
Code Smell

An open curly brace should be located at the beginning of a line
Code Smell

An open curly brace should be located at the end of a line
Code Smell

Tabulation characters should not be used
Code Smell

Functions should not be defined with a variable number of arguments
Code Smell

"switch case" clauses should not have too many lines of code

Analyze your code

Code Smell | Major | brain-overload

The `switch` statement should be used only to clearly define some new branches in the control flow. As soon as a `case` clause contains too many statements this highly decreases the readability of the overall control flow statement. In such case, the content of the `case` clause should be extracted into a dedicated method.

Noncompliant Code Example

With the default threshold of 5:

```
switch (myVariable) {
  case 0: // Noncompliant: 6 lines till next case
    methodCall1("");
    methodCall2("");
    methodCall3("");
    methodCall4("");
    break;
  case 1:
  ...
}
```

Compliant Solution

```
switch (myVariable) {
  case 0:
    doSomething()
    break;
  case 1:
  ...
}
...
private void doSomething(){
    methodCall1("");
    methodCall2("");
    methodCall3("");
    methodCall4("");
}
```

Available In:

sonarlint | sonarcloud | sonarqube

Local-Variable Type Inference should be used

Code Smell

Migrate your tests from JUnit4 to the new JUnit5 annotations

Code Smell

Track uses of disallowed classes

Code Smell

Track uses of "@SuppressWarnings" annotations

Code Smell