




 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



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... 🔍

Multiple loops over the same set should be combined

Code Smell

Classes without "public" constructors should be "final"

Code Smell

Unnecessary semicolons should be omitted

Code Smell

Literal boolean values and nulls should not be used in assertions

Code Smell

Test assertions should include messages

Code Smell

Mutable members should not be stored or returned directly

Code Smell

Redundant modifiers should not be used

Code Smell

"private" and "final" methods that don't access instance data should be "static"

Code Smell

Files should not be empty

Code Smell

Collection methods with O(n) performance should be used carefully

Code Smell

"Exception" should not be caught when not required by called methods

Code Smell

"collect" should be used with

Anonymous inner classes containing only one method should become lambdas

Analyze your code

Code Smell Major ? java8

Before Java 8, the only way to partially support closures in Java was by using anonymous inner classes. But the syntax of anonymous classes may seem unwieldy and unclear.

With Java 8, most uses of anonymous inner classes should be replaced by lambdas to highly increase the readability of the source code.

Note that this rule is automatically disabled when the project's `sonar.java.source` is lower than 8.

Noncompliant Code Example

```
myCollection.stream().map(new Mapper<String,String>() {
    public String map(String input) {
        return new StringBuilder(input).reverse().toString();
    }
});

Predicate<String> isEmpty = new Predicate<String> {
    boolean test(String myString) {
        return myString.isEmpty();
    }
}
```

Compliant Solution

```
myCollection.stream().map(input -> new StringBuilder(input)).
Predicate<String> isEmpty = myString -> myString.isEmpty();
```

Available In:





sonarlint | sonarcloud | sonarqube

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https://rules.sonarsource.com/java/RSPEC-1604

1/2

<div>"Streams" instead of "list::add"</div> <div> Code Smell</div>
<div>Switches should be used for sequences of simple "String" tests</div> <div> Code Smell</div>
<div>"final" classes should not have "protected" members</div> <div> Code Smell</div>
<div>Underscores should be used to make large numbers readable</div> <div> Code Smell</div>
<div>"Serializable" inner classes of</div>