Secrets
ABAP
Apex
C
C++
CloudFormation
COBOL
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CSS
Flex
Go
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Kotlin
Objective C
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PL/I
PL/SQL
Python
RPG
Ruby
Scala
Swift
Terraform
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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...

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

"Serializable" inner classes of non-serializable classes should be "static"

Analyze your code

Bug | Minor | serialization cert

Serializing a non-`static` inner class will result in an attempt at serializing the outer class as well. If the outer class is not serializable, then serialization will fail, resulting in a runtime error.

Making the inner class `static` (i.e. "nested") avoids this problem, therefore inner classes should be `static` if possible. However, you should be aware that there are semantic differences between an inner class and a nested one:

- an inner class can only be instantiated within the context of an instance of the outer class.
- a nested (`static`) class can be instantiated independently of the outer class.

Noncompliant Code Example

```
public class Pomegranate {
  // ...

  public class Seed implements Serializable {  // Noncomplia
    // ...
  }
}
```

Compliant Solution

```
public class Pomegranate {
  // ...

  public static class Seed implements Serializable {
    // ...
  }
}
```

See

- CERT SER05-J. - Do not serialize instances of inner classes

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