sonar

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Java static code analysis

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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

Public constants and fields initialized at declaration should be "static final" rather than merely "final"

Analyze your code

Code Smell

Minor

convention

Making a public constant just `final` as opposed to `static final` leads to duplicating its value for every instance of the class, uselessly increasing the amount of memory required to execute the application.

Further, when a non-public, `final` field isn't also `static`, it implies that different instances can have different values. However, initializing a non-`static final` field in its declaration forces every instance to have the same value. So such fields should either be made `static` or initialized in the constructor.

Noncompliant Code Example

```
public class MyClass {
    public final int THRESHOLD = 3;
}
```

Compliant Solution

```
public class MyClass {
    public static final int THRESHOLD = 3;    // Compliant
}
```

Exceptions

No issues are reported on final fields of inner classes whose type is not a primitive or a String. Indeed according to the Java specification:

An inner class is a nested class that is not explicitly or implicitly declared static. Inner classes may not declare static initializers (§8.7) or member interfaces. Inner classes may not declare static members, unless they are compile-time constant fields (§15.28).

Available In:

sonarlint | sonarcloud | sonarqube

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https://rules.sonarsource.com/java/RSPEC-1170

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