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Java static code analysis

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

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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

Class variable fields should not have public accessibility

Analyze your code

Code Smell

Minor

cwe

Public class variable fields do not respect the encapsulation principle and has three main disadvantages:

- Additional behavior such as validation cannot be added.
- The internal representation is exposed, and cannot be changed afterwards.
- Member values are subject to change from anywhere in the code and may not meet the programmer's assumptions.

By using private attributes and accessor methods (set and get), unauthorized modifications are prevented.

Noncompliant Code Example

```
public class MyClass {  
  
    public static final int SOME_CONSTANT = 0;    // Compliant  
  
    public String firstName;                      // Noncompliant  
  
}
```

Compliant Solution

```
public class MyClass {  
  
    public static final int SOME_CONSTANT = 0;    // Compliant  
  
    private String firstName;                    // Compliant  
  
    public String getFirstName() {  
        return firstName;  
    }  
  
    public void setFirstName(String firstName) {  
        this.firstName = firstName;  
    }  
  
}
```

Exceptions

Because they are not modifiable, this rule ignores `public final` fields. Also, annotated fields, whatever the annotation(s) will be ignored, as annotations are often used by injection frameworks, which in exchange require having public fields.


See

- [MITRE, CWE-493](#) - Critical Public Variable Without Final Modifier


https://rules.sonarsource.com/java/RSPEC-1104

1/2


Local-Variable Type Inference should be used

 Code Smell


Migrate your tests from JUnit4 to the new JUnit5 annotations

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Track uses of disallowed classes

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Track uses of "@SuppressWarnings" annotations

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Available In:

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