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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

Text blocks should not be used in complex expressions

Analyze your code

Code Smell

Minor ?

In Java 15 Text Blocks are official and can be used just like an ordinary String. However, when they are used to represent a big chunk of text, they should not be used directly in complex expressions, as it decreases the readability. In this case, it is better to extract the text block into a variable or a field.

This rule reports an issue when a text block longer than a number of lines given as a parameter is directly used within a lambda expression.

Noncompliant Code Example

```
listOfString.stream()
    .map(str -> !"""
        <project>
          <modelVersion>4.0.0</modelVersion>
          <parent>
            <groupId>com.mycompany.app</groupId>
            <artifactId>my-app</artifactId>
            <version>1</version>
          </parent>

          <groupId>com.mycompany.app</groupId>
          <artifactId>my-module</artifactId>
          <version>1</version>
        </project>
        """.equals(str));
```

Compliant Solution

```
String myTextBlock = """
    <project>
      <modelVersion>4.0.0</modelVersion>
      <parent>
        <groupId>com.mycompany.app</groupId>
        <artifactId>my-app</artifactId>
        <version>1</version>
      </parent>

      <groupId>com.mycompany.app</groupId>
      <artifactId>my-module</artifactId>
      <version>1</version>
    </project>
    """;

listOfString.stream()
    .map(str -> !myTextBlock.equals(str));
```


See

- [JEP 378: Text Blocks](#)


https://rules.sonarsource.com/java/RSPEC-6203

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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

- [Programmer's Guide To Text Blocks](#), by Jim Laskey and Stuart Marks

Available In:

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