

 Secrets

 ABAP

 Apex

 C

 C++

 CloudFormation

 COBOL

 C#

 CSS

 Flex

 Go

 HTML

 **Java**

 JavaScript

 Kotlin

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 PHP

 PL/I

 PL/SQL

 Python

 RPG

 Ruby

 Scala

 Swift

 Terraform

 Text

 TypeScript

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 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
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- Code Smell 389
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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

Tags ▾

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Utility classes should not have public constructors

Analyze your code

- Code Smell
- Major ?
- design

Utility classes, which are collections of static members, are not meant to be instantiated. Even abstract utility classes, which can be extended, should not have public constructors.

Java adds an implicit public constructor to every class which does not define at least one explicitly. Hence, at least one non-public constructor should be defined.

Noncompliant Code Example

```
class StringUtils { // Noncompliant

    public static String concatenate(String s1, String s2) {
        return s1 + s2;
    }

}
```

Compliant Solution

```
class StringUtils { // Compliant

    private StringUtils() {
        throw new IllegalStateException("Utility class");
    }

    public static String concatenate(String s1, String s2) {
        return s1 + s2;
    }

}
```

Exceptions

When class contains public static void main(String[] args) method it is not considered as utility class and will be ignored by this rule.

Available In:

sonarlint | sonarcloud | sonarqube

<div>Local-Variable Type Inference should be used</div> <div> Code Smell</div>
<div>Migrate your tests from JUnit4 to the new JUnit5 annotations</div> <div> Code Smell</div>
<div>Track uses of disallowed classes</div> <div> Code Smell</div>
<div>Track uses of "@SuppressWarnings" annotations</div> <div> Code Smell</div>