
































-  Secrets
-  ABAP
-  Apex
-  C
-  C++
-  CloudFormation
-  COBOL
-  C#
-  CSS
-  Flex
-  Go
-  HTML
-  **Java**
-  JavaScript
-  Kotlin
-  Objective C
-  PHP
-  PL/I
-  PL/SQL
-  Python
-  RPG
-  Ruby
-  Scala
-  Swift
-  Terraform
-  Text
-  TypeScript
-  T-SQL
-  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
-  Vulnerability 53
-  Bug 154
-  Security Hotspot 36
-  Code Smell 389
-  Quick Fix 42

Tags ▾

Search by name... 

Array designators "[]" should be located after the type in method signatures

 Code Smell

Type parameter names should comply with a naming convention

 Code Smell

Overriding methods should do more than simply call the same method in the super class

 Code Smell

Classes that override "clone" should be "Cloneable" and call "super.clone()"

 Code Smell

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

 Code Smell

Local variable and method parameter names should comply with a naming convention

 Code Smell

Exception classes should be immutable

 Code Smell


Field names should comply with a naming convention

 Code Smell

Primitive wrappers should not be instantiated only for "toString" or "compareTo" calls

 Code Smell

Case insensitive string comparisons should be made without intermediate upper or lower casing

 Code Smell

Single-character alternations in regular expressions should be replaced with character classes

Analyze your code

 Code Smell  Major  regex

When an alternation contains multiple alternatives that consist of a single character, it can be rewritten as a character class. This should be preferred because it is more efficient and can even help prevent stack overflows when used inside a repetition (see rule {rule:java:S5998}).

Noncompliant Code Example





```
Pattern.compile("a|b|c"); // Noncompliant
```

Compliant Solution

```
Pattern.compile("[abc]");  
// or  
Pattern.compile("[a-c]");
```

Available In:
 |  | 

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.
[Privacy Policy](#)

| |
|--|
| <div>Collection.isEmpty() should be used to test for emptiness</div> <div> Code Smell</div> |
| <div>String.valueOf() should not be appended to a String</div> <div> Code Smell</div> |
| <div>Interface names should comply with a naming convention</div> <div> Code Smell</div> |
| <div>"throws" declarations should not be superfluous</div> <div> Code Smell</div> |