




 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 rules632

Vulnerability53

Bug154

Security Hotspot36

Code Smell389

Quick Fix42

Tags ▾

Search by name... 🔍

Exception testing via JUnit @Test annotation should be avoided

Code Smell

Escape sequences should not be used in text blocks

Code Smell

Simple string literal should be used for single line strings

Code Smell

Boxed "Boolean" should be avoided in boolean expressions

Code Smell

Type parameters should not shadow other type parameters

Code Smell

"read(byte[],int,int)" should be overridden

Code Smell

An iteration on a Collection should be performed on the type handled by the Collection

Code Smell

"StandardCharsets" constants should be preferred

Code Smell

"@CheckForNull" or "@Nullable" should not be used on primitive types

Code Smell

Composed "@RequestMapping" variants should be preferred

Code Smell

"write(byte[],int,int)" should be overridden

Code Smell

Reflection should not be used to check non-runtime annotations

Analyze your code

BugMajor?

The writer of an annotation can set one of three retention policies for it:

- RetentionPolicy.SOURCE - these annotations are dropped during compilation, E.G. @Override, @SuppressWarnings.
- RetentionPolicy.CLASS - these annotations are present in a compiled class but not loaded into the JVM at runtime. This is the default.
- RetentionPolicy.RUNTIME - these annotations are present in the class file and loaded into the JVM.

Only annotations that have been given a RUNTIME retention policy will be available to reflection. Testing for annotations with any other retention policy is simply an error, since the test will always return false.

This rule checks that reflection is not used to detect annotations that do not have RUNTIME retention.

Noncompliant Code Example

```
Method m = String.class.getMethod("getBytes", new Class[] {int.class, byte[].class, int.class});
if (m.isAnnotationPresent(Override.class)) { // Noncompliant
```





Available In:

sonarlint | sonarcloud | sonarqube

© 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](#)

https://rules.sonarsource.com/java/RSPEC-2109

1/2

<div>Functional Interfaces should be as specialised as possible</div> <div> Code Smell</div>
<div>Null checks should not be used with "instanceof"</div> <div> Code Smell</div>
<div>"close()" calls should not be redundant</div> <div> Code Smell</div>
<div>"ThreadLocal.withInitial" should be preferred</div> <div> Code Smell</div>