




 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


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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

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⚙️ Code Smell

Tests should be kept in a dedicated source directory

⚙️ Code Smell

"this" should not be exposed from constructors

⚙️ Code Smell

Classes should not have too many "static" imports

⚙️ Code Smell

Escaped Unicode characters should not be used

⚙️ Code Smell

Inner classes should not have too many lines of code

⚙️ Code Smell

Inner classes which do not reference their owning classes should be "static"

⚙️ Code Smell

"deleteOnExit" should not be used

⚙️ Code Smell

Public methods should not contain selector arguments

⚙️ Code Smell

Java parser failure

⚙️ Code Smell

Track uses of disallowed methods

⚙️ Code Smell

Types should be used in lambdas

⚙️ Code Smell

"java.time" classes should be used for dates and times

⚙️ Code Smell

"Thread.sleep" should not be used in tests

Analyze your code

⚙️ Code Smell

🔴 Major ?

🔍 tests bad-practice

Using `Thread.sleep` in a test is just generally a bad idea. It creates brittle tests that can fail unpredictably depending on environment ("Passes on my machine!") or load. Don't rely on timing (use mocks) or use libraries such as `Awaitility` for asynchronous testing.

Noncompliant Code Example

```
@Test
public void testDoTheThing(){

    MyClass myClass = new MyClass();
    myClass.doTheThing();

    Thread.sleep(500); // Noncompliant
    // assertions...
}
```

Compliant Solution

```
@Test
public void testDoTheThing(){

    MyClass myClass = new MyClass();
    myClass.doTheThing();

    await().atMost(2, Duration.SECONDS).until(didTheThing());
    // assertions...
}

private Callable<Boolean> didTheThing() {
    return new Callable<Boolean>() {
        public Boolean call() throws Exception {
            // check the condition that must be fulfilled...
        }
    };
}
```

Available In:

sonarlint





sonarcloud

sonarqube

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https://rules.sonarsource.com/java/RSPEC-2925

1/2

 Code Smell
The names of methods with boolean return values should start with "is" or "has"
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Files should contain only one top-level class or interface each
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Classes should not have too many fields
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The ternary operator should not be