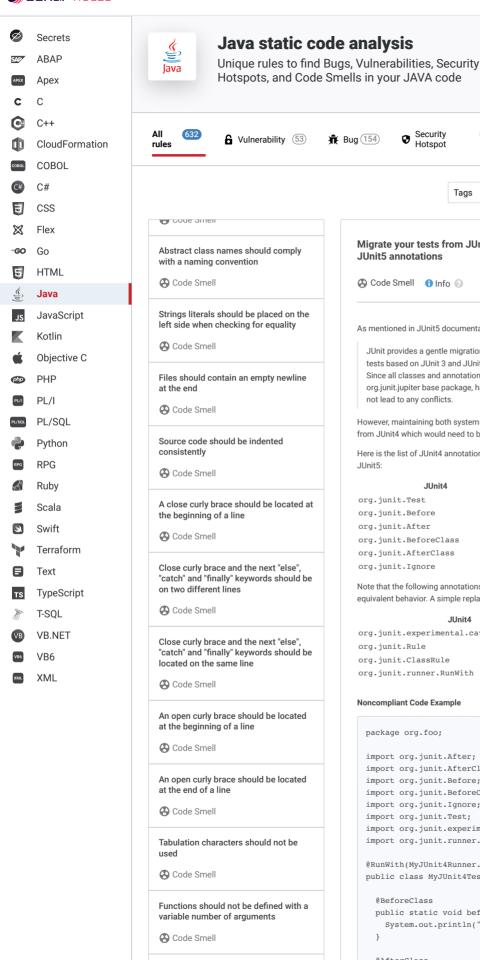
Security Hotspot



Products >

(42)

O Quick Fix



Local-Variable Type Inference should

be used

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```
Tags
                                                     Search by name.
Migrate your tests from JUnit4 to the new
                                                          Analyze your code
JUnit5 annotations
Code Smell 1 Info
                              iunit tests
As mentioned in JUnit5 documentation, it is possible to integrate JUnit4 with JUnit5:
  JUnit provides a gentle migration path via a JUnit Vintage test engine which allows existing
  tests based on JUnit 3 and JUnit 4 to be executed using the JUnit Platform infrastructure
  Since all classes and annotations specific to JUnit Jupiter reside under a new
  org.junit.jupiter base package, having both JUnit 4 and JUnit Jupiter in the classpath does
  not lead to any conflicts.
However, maintaining both systems is a temporary solution. This rule flags all the annotations
from JUnit4 which would need to be migrated to JUnit5, hence helping migration of a project.
Here is the list of JUnit4 annotations tracked by the rule, with their corresponding annotations in
JUnit5:
               JUnit4
                                                     JUnit5
org.junit.Test
                                     org.junit.jupiter.api.Test
org.junit.Before
                                     org.junit.jupiter.api.BeforeEach
org.junit.After
                                     org.junit.jupiter.api.AfterEach
org.junit.BeforeClass
                                     org.junit.jupiter.api.BeforeAll
org.junit.AfterClass
                                     org.junit.jupiter.api.AfterAll
org.junit.Ignore
                                     org.junit.jupiter.api.Disabled
Note that the following annotations might requires some rework of the tests to have JUnit5
equivalent behavior. A simple replacement of the annotation won't work immediately:
org.junit.experimental.categories.Category org.junit.jupiter.api.Tag
org.junit.Rule
                                                org.junit.jupiter.api.extension.E
org.junit.ClassRule
                                                org.junit.jupiter.api.extension.R
org.junit.runner.RunWith
                                                org.junit.jupiter.api.extension.E
Noncompliant Code Example
  package org.foo;
  import org.junit.After;
  import org.junit.AfterClass;
  import org.junit.Before;
  import org.junit.BeforeClass;
  import org.junit.Ignore:
  import org.junit.Test;
  import org.junit.experimental.categories.Category;
  import org.junit.runner.RunWith;
  @RunWith(MyJUnit4Runner.class)
  public class MyJUnit4Test {
    @BeforeClass
    public static void beforeAll() {
      System.out.println("beforeAll");
    @AfterClass
    public static void afterAll() {
      System.out.println("AfterAll");
```

**⊘** Code Smell

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Migrate your tests from JUnit4 to the new JUnit5 annotations Code Smell Track uses of disallowed classes Code Smell Track uses of "@SuppressWarnings" annotations A Code Smell

```
public void beforeEach() {
 System.out.println("beforeEach");
@After
public void afterEach() {
 System.out.println("afterEach");
public void test1() throws Exception {
 System.out.println("test1");
public interface SomeTests { /* category marker */ }
@Category(SomeTests.class)
public void test2() throws Exception {
 System.out.println("test2");
@Test
@Ignore("Requires fix of #42")
public void ignored() throws Exception {
 System.out.println("ignored");
```

```
Compliant Solution
 package org.foo;
 import org.junit.jupiter.api.AfterAll;
 import org.junit.jupiter.api.AfterEach;
 import org.junit.jupiter.api.BeforeAll;
 import org.junit.jupiter.api.BeforeEach;
 import org.junit.jupiter.api.Disabled;
 import org.junit.jupiter.api.Tag;
 import org.junit.jupiter.api.Test;
 import org.junit.jupiter.api.extension.ExtendWith;
 @ExtendWith(MyJUnit5Extension.class)
 class MyJUnit5Test {
   @BeforeAll
   static void beforeAll() {
     System.out.println("beforeAll");
   @AfterAll
   static void afterAll() {
    System.out.println("afterAll");
   @BeforeEach
   void beforeEach() {
     System.out.println("beforeEach");
   @AfterEach
   void afterEach() {
     System.out.println("afterEach");
   void test1() {
     System.out.println("test1");
   @Tag("SomeTests")
   void test2() {
     System.out.println("test2");
   @Disabled("Requires fix of #42")
   void disabled() {
     System.out.println("ignored");
 }
```

See

• JUnit 5: Migrating from JUnit4

Available In:

sonarlint ⊕ | sonardoud ♂ | sonarqube

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