

Secrets

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Java static code analysis

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Tags

Search by name...

Code Smell

Abstract class names should comply with a naming convention

Code Smell

Code Smell

Strings literals should be placed on the left side when checking for equality

Code Smell

Code Smell

Files should contain an empty newline at the end

Code Smell

Code Smell

Source code should be indented consistently

Code Smell

Code Smell

A close curly brace should be located at the beginning of a line

Code Smell

Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be on two different lines

Code Smell

Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be located on the same line

Code Smell

Code Smell

An open curly brace should be located at the beginning of a line

Code Smell

Code Smell

An open curly brace should be located at the end of a line

Code Smell

Code Smell

Tabulation characters should not be used

Code Smell

Code Smell

Functions should not be defined with a variable number of arguments

Code Smell

Code Smell

Local-Variable Type Inference should be used

Code Smell

Chained AssertJ assertions should be simplified to the corresponding dedicated assertion

Analyze your code

Code Smell

Minor

Quick Fix

tests assertj

AssertJ contains many assertions methods specific to common types. Both versions will test the same things, but the dedicated one will provide a better error message, simplifying the debugging process.

This rule reports an issue when an assertion can be simplified to a dedicated one.

The array below gives a non-exhaustive list of assertion reported by the rule. Code behaving similarly, or with a negation will also be reported.

Original

Related to Object

Related to Comparable

Related to String

Related to File

Related to Path

```
assertThat(getObject()).isEqualTo(null)
assertThat(getBoolean()).isEqualTo(true)
assertThat(getBoolean()).isEqualTo(false)
assertThat(x.equals(y)).isTrue()
assertThat(x == y).isTrue()
assertThat(x == null).isTrue()
assertThat(x.toString()).isEqualTo(y)
assertThat(x.hashCode()).isEqualTo(y.hashCode())
assertThat(getObject() instanceof MyClass).isTrue()

assertThat(x.compareTo(y)).isZero()
assertThat(x >= y).isGreaterThanOrEqualTo(0)
assertThat(x > y).isPositive()
assertThat(x <= y).isNotPositive()
assertThat(x < y).isTrue()

assertThat(getString().isEmpty()).isTrue()
assertThat(getString().hasSize(0))
assertThat(getString().equals(expected)).isTrue()
assertThat(getString().equalsIgnoreCase(expected)).isTrue()
assertThat(getString().contains(expected)).isTrue()
assertThat(getString().startsWith(expected)).isTrue()
assertThat(getString().endsWith(expected)).isTrue()
assertThat(getString().matches(expected)).isTrue()
assertThat(getString().trim()).isEmpty()
assertThat(getString().length()).isEqualTo(length)
assertThat(getString().length()).hasSize(expected.length())


assertThat(getFile()).hasSize(0)
assertThat(getFile().length()).isZero()
assertThat(getFile().length()).isEqualTo(length)
assertThat(getFile().canRead()).isTrue()
assertThat(getFile().canWrite()).isTrue()
assertThat(getFile().exists()).isTrue()
assertThat(getFile().getName()).isEqualTo(name)
assertThat(getFile().getParent()).isEqualTo(pathname)
assertThat(getFile().getParentFile()).isNull()
assertThat(getFile().isAbsolute()).isTrue()
assertThat(getFile().isAbsolute()).isFalse()
assertThat(getFile().isDirectory()).isTrue()
assertThat(getFile().isFile()).isTrue()
assertThat(getFile().list()).isEmpty()
```

https://rules.sonarsource.com/java/RSP


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1/2


Migrate your tests from JUnit4 to the new JUnit5 annotations

 Code Smell

Track uses of disallowed classes

 Code Smell

Track uses of "@SuppressWarnings" annotations

 Code Smell

Original

```
assertThat(getPath().startsWith(path)).isTrue()
assertThat(getPath().endsWith(path)).isTrue()
assertThat(getPath().getParent()).isEqualTo(name)
assertThat(getPath().getParent()).isNull()
assertThat(getPath().isAbsolute()).isTrue()
assertThat(getPath().isAbsolute()).isFalse()

Related to Array
assertThat(getArray().length).isZero()
assertThat(getArray().length).isEqualTo(length)
assertThat(getArray().length).isEqualTo(anotherArray.length)
assertThat(getArray().length).isLessThanOrEqualTo(expression)
assertThat(getArray().length).isLessThan(expression)
assertThat(getArray().length).isGreaterThan(expression)
assertThat(getArray().length).isGreaterThanOrEqualTo(expression)

Related to Collection
assertThat(getCollection().isEmpty()).isTrue()
assertThat(getCollection().size()).isZero()
assertThat(getCollection().contains(something)).isTrue()
assertThat(getCollection().containsAll(otherCollection)).isTrue()

Related to Map
assertThat(getMap().size()).isEqualTo(otherMap().size())
assertThat(getMap().containsKey(key)).isTrue()
assertThat(getMap().keySet()).contains(key)
assertThat(getMap().keySet()).containsOnlyKey(key)
assertThat(getMap().containsValue(value)).isTrue()
assertThat(getMap().values()).contains(value)
assertThat(getMap().get(key)).isEqualTo(value)

Related to Optional
assertThat(getOptional().isPresent()).isTrue()
assertThat(getOptional().get()).isEqualTo(something)
assertThat(getOptional().get()).isSameAs(something)
```

Noncompliant Code Example

```
assertThat(getObject()).isEqualTo(null); // Noncompliant
assertThat(getObject()).isNotEqualTo(null); // Noncompliant - not list

assertThat(getString().trim()).isEmpty();
assertThat(getFile().canRead()).isTrue();
assertThat(getPath().getParent()).isNull();
```

Compliant Solution

```
assertThat(getObject()).isNull();

assertThat(getString()).isBlank();
assertThat(getFile()).canRead();
assertThat(getPath()).hasNoParentRaw();
```

Available In:

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