




 Secrets


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 Apex


 C


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 C#


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 Flex


 Go


 HTML


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 JavaScript


 Kotlin


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 PHP


 PL/I


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 Python


 RPG


 Ruby


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 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... 🔍

Abstract class names should comply with a naming convention

Code Smell

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

Code Smell

Files should contain an empty newline at the end

Code Smell

Source code should be indented consistently

Code Smell

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

Code Smell

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

Code Smell

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

Code Smell

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

Code Smell

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

Code Smell

Tabulation characters should not be used

Code Smell

Functions should not be defined with a variable number of arguments

Code Smell

Generic exceptions should never be thrown

Analyze your code

Code Smell

Major

cwe error-handling cert

Using such generic exceptions as Error, RuntimeException, Throwable, and Exception prevents calling methods from handling true, system-generated exceptions differently than application-generated errors.

Noncompliant Code Example

```
public void foo(String bar) throws Throwable { // Noncompliant
    throw new RuntimeException("My Message"); // Noncompliant
}
```

Compliant Solution

```
public void foo(String bar) {
    throw new MyOwnRuntimeException("My Message");
}
```

Exceptions

Generic exceptions in the signatures of overriding methods are ignored, because overriding method has to follow signature of the throw declaration in the superclass. The issue will be raised on superclass declaration of the method (or won't be raised at all if superclass is not part of the analysis).

```
@Override
public void myMethod() throws Exception {...}
```

Generic exceptions are also ignored in the signatures of methods that make calls to methods that throw generic exceptions.

```
public void myOtherMethod throws Exception {
    doTheThing(); // this method throws Exception
}
```

See

- [MITRE, CWE-397](#) - Declaration of Throws for Generic Exception
- [CERT, ERR07-J](#) - Do not throw RuntimeException, Exception, or Throwable





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1/2

https://rules.sonarsource.com/java/RSPEC-112

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