


-  Secrets
-  ABAP
-  Apex
-  C
-  C++
-  CloudFormation
-  COBOL
-  C#
-  CSS
-  Flex
-  Go
-  HTML
-  Java
-  JavaScript
-  Kotlin
-  Kubernetes
-  Objective C
-  PHP
-  PL/I
-  PL/SQL
-  Python
-  RPG
-  Ruby
-  Scala
-  **Swift**
-  Terraform
-  Text
-  TypeScript
-  T-SQL
-  VB.NET
-  VB6
-  XML



## Swift static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your SWIFT code

All rules 119

 Vulnerability 3

 Bug 14

 Security Hotspot 3

 Code Smell 99

Tags

Search by name...




Hard-coded credentials are security-sensitive

 Security Hotspot

Methods and field names should not be the same or differ only by capitalization

 Code Smell


Cipher algorithms should be robust

 Vulnerability


Using weak hashing algorithms is security-sensitive

 Security Hotspot


Cognitive Complexity of functions should not be too high

 Code Smell


"try!" should not be used

 Code Smell

String literals should not be duplicated

 Code Smell

Functions and closures should not be empty

 Code Smell

Collection elements should not be replaced unconditionally

 Bug

Collection sizes comparisons should make sense

 Bug

All branches in a conditional structure should not have exactly the same implementation

 Bug




Infix operators that end with "=" should update their left operands

 Bug

Precedence and associativity of standard operators should not be changed

Type parameter names should comply with a naming convention

Analyze your code

 Code Smell  Minor  convention

Shared naming conventions make it possible for a team to collaborate efficiently. Following the established convention of single-letter type parameter names helps users and maintainers of your code quickly see the difference between a type parameter and a poorly named class.

This rule check that all type parameter names match a provided regular expression. The following code snippets use the default regular expression.

### Noncompliant Code Example

With the default regular expression `^[A-Z]$:`

```
public class MyClass<TYPE> {    // Noncompliant
    func method<TYPE>(t : TYPE) { // Noncompliant
    }
}
```

### Compliant Solution

```
public class MyClass<T> {
    func method<T>(t : T) {
    }
}
```

Available In:

 |  |  Developer Edition

© 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](#)

 Bug
<div>Return values from functions without side effects should not be ignored</div> <div> Bug</div>
<div>Related "if/else if" statements and "cases" in a "switch" should not have the same condition</div> <div> Bug</div>
<div>Identical expressions should not be used on both sides of a binary operator</div> <div> Bug</div>
<div>All code should be reachable</div> <div> Bug</div>
<div>Loops with at most one iteration should be refactored</div> <div> Bug</div>
<div>"IBInspectable" should be used correctly</div> <div> Code Smell</div>
<div>Functions should not have identical implementations</div> <div> Code Smell</div>
<div>Ternary operators should not be nested</div> <div> Code Smell</div>
<div>Closure expressions should not be nested too deeply</div> <div> Code Smell</div>
<div>Backticks should not be used around</div>