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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

Comments should not be located at the end of lines of code

Analyze your code

 Code Smell  Minor  convention

This rule verifies that single-line comments are not located at the ends of lines of code. The main idea behind this rule is that in order to be really readable, trailing comments would have to be properly written and formatted (correct alignment, no interference with the visual structure of the code, not too long to be visible) but most often, automatic code formatters would not handle this correctly: the code would end up less readable. Comments are far better placed on the previous empty line of code, where they will always be visible and properly formatted.

Noncompliant Code Example

```
var a1 = b + c // This is a trailing comment that can be
```

Compliant Solution

```
// This very long comment is better placed before the li
var a2 = b + c
```

Available In:

sonarlint  sonarcloud  sonarqube  Developer Edition

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 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>