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

C# static code analysis

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

All rules 409 | Vulnerability 34 | Bug 76 | Security Hotspot 28 | Code Smell 271 | Quick Fix 52

Tags | Search by name...

"protected" members
Code Smell

Underscores should be used to make large numbers readable
Code Smell

"ToString()" calls should not be redundant
Code Smell

"==" should not be used when "Equals" is overridden
Code Smell

An abstract class should have both abstract and concrete methods
Code Smell

Multiple variables should not be declared on the same line
Code Smell

Culture should be specified for "string" operations
Code Smell

"switch" statements should have at least 3 "case" clauses
Code Smell

break statements should not be used except for switch cases
Code Smell

String literals should not be duplicated
Code Smell

Files should contain an empty newline at the end
Code Smell

Unused "using" should be removed
Code Smell

Variables should not be checked against the values they're about to be assigned

Analyze your code

Code Smell | Minor | Quick Fix | confusing

There's no point in checking a variable against the value you're about to assign it. Save the cycles and lines of code, and simply perform the assignment.

Noncompliant Code Example

```
if (x != a)  // Noncompliant; why bother?
{
    x = a;
}
```

Compliant Solution

```
x = a;
```

Exceptions

Properties and checks inside setters are excluded from this rule because they could have side effects and removing the check could lead to undesired side effects.

```
if (MyProperty != a)
{
    MyProperty = a; // Compliant because the setter could be
}
```

```
private int myField;
public int SomeProperty
{
    get
    {
        return myField;
    }
    set
    {
        if (myField != value)
        {
            myField = value;
        }
    }
}
```

Available In:

sonarlint | sonarcloud | sonarqube

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

Code Smell

Tabulation characters should not be used

Code Smell

Methods and properties should be named in PascalCase

Code Smell

Track uses of in-source issue suppressions

Code Smell