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

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

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

Type names should not match namespaces

Analyze your code

⊘ Code Smell   Minor ?   🏷 convention

When a type name matches the name of a publicly defined namespace, for instance one in the .NET framework class library, it leads to confusion and makes the library that much harder to use.

This rule raises an issue when a name of a public type matches the name of a .NET Framework namespace, or a namespace of the project assembly, in a case-insensitive comparison.

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
  public class Text   // Noncompliant: Collides with System.
  {
  }
}
```

Compliant Solution

```
using System;

namespace MyLibrary
{
  public class MyText
  {
  }
}
```

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