C# static code analysis

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

Secrets		C#
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		

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

Generic methods should provide type parameters

Analyze your code

⊘ Code Smell   ⌄ Minor ⍰

The best way to determine the type of a generic method is by inference based on the type of argument that is passed to the method. This is not possible when a parameter type is missing from the argument list.

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
  public class Foo
  {
    public void MyMethod<T>()  // Noncompliant
    {
    }
  }
}
```

Compliant Solution

```
using System;

namespace MyLibrary
{
  public class Foo
  {
    public void MyMethod<T>(T param)
    {
    }
  }
}
```

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