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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

Method signatures should not contain nested generic types

Analyze your code

⊘ Code Smell   🔻 Major ⍰   🏷 confusing

A nested type is a type argument that is also a generic type. Calling a method with such a nested type argument requires complicated and confusing code. It should be avoided as much as possible.

Noncompliant Code Example

```
using System;
using System.Collections.Generic;

namespace MyLibrary
{
  public class Foo
  {
    public void DoSomething(ICollection<ICollection<int>> ou
    {
    }
  }
}
```

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