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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

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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

Methods should be named according to their synchronicities

Analyze your code

Code Smell Minor ?

According to the Task-based Asynchronous Pattern (TAP), methods returning either a `System.Threading.Tasks.Task` or a `System.Threading.Tasks.Task<TResult>` are considered "asynchronous". Such methods should use the `Async` suffix. Conversely methods which do not return such Tasks should not have an "Async" suffix in their names.

Noncompliant Code Example

```
using System;
using System.Threading.Tasks;

namespace myLibrary
{
    public class Foo
    {
        public Task Read(byte [] buffer, int offset, int count,
                        CancellationToken cancellati
    }
}
```

Compliant Solution

```
using System;
using System.Threading.Tasks;

namespace myLibrary
{
    public class Foo
    {
        public Task ReadAsync(byte [] buffer, int offset, int co
    }
}
```

Exceptions

This rule doesn't raise an issue when the method is an override or part of the implementation of an interface since it can not be renamed.

See

- [Task-based Asynchronous Pattern](#)

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

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