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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

Attribute, EventArgs, and Exception type names should end with the type being extended

Analyze your code

Code Smell | Minor | convention

Adherence to the standard naming conventions makes your code not only more readable, but more usable. For instance, `class FirstAttribute : Attribute` can be used simply with `First`, but you must use the full name for `class AttributeOne : Attribute`.

This rule raises an issue when classes extending `Attribute`, `EventArgs`, or `Exception`, do not end with their parent class names.

Noncompliant Code Example

```
class AttributeOne : Attribute  // Noncompliant
{
}
```

Compliant Solution

```
class FirstAttribute : Attribute
{
}
```

Exceptions

If a class' direct base class doesn't follow the convention, then no issue is reported on the class itself, regardless of whether or not it conforms to the convention.

```
class Timeout : Exception // Noncompliant
{
}
class ExtendedTimeout : Timeout // Ignored; doesn't conform
{
}
```

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