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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

Underscores should be used to make large numbers readable

Analyze your code

Code Smell | Minor | convention

Beginning with C# 7, it is possible to add underscores ('_') to numeric literals to enhance readability. The addition of underscores in this manner has no semantic meaning, but makes it easier for maintainers to understand the code.

The number of digits to the left of a decimal point needed to trigger this rule varies by base.

Base	Minimum digits
binary	9
decimal	6
hexadecimal	9

It is only the presence of underscores, not their spacing that is scrutinized by this rule.

Note that this rule is automatically disabled when the project's `C# version` is lower than `7`.

Noncompliant Code Example

```
int i = 10000000;  // Noncompliant; is this 10 million or 10
int  j = 0b01101001010011011110010101011110;  // Noncomplian
long l = 0x7fffffffffffffffL;  // Noncompliant
```

Compliant Solution

```
int i = 10_000_000;
int  j = 0b01101001_01001101_11100101_01011110;
long l = 0x7fff_ffff_ffff_ffffL;
```

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