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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

Strings should be normalized to uppercase

Analyze your code

Code Smell | Minor | pitfall

Certain characters, once normalized to lowercase, cannot make a round trip. That is, they can not be converted from one locale to another and then accurately restored to their original characters.

It is therefore strongly recommended to normalize characters and strings to uppercase instead.

Noncompliant Code Example

```
Thread.CurrentThread.CurrentCulture = new CultureInfo("tr-TR
var areStringEqual = "INTEGER".ToLower() == "integer"; // No
var areCharEqual = char.ToLower('I') == 'i'; // Noncompliant

var incorrectRoundtrip = "İ".ToLowerInvariant().ToUpper() ==
```

Compliant Solution

```
Thread.CurrentThread.CurrentCulture = new CultureInfo("tr-TR
var areStringEqual = "integer".ToUpperInvariant() == "ıNTEGE
var areCharEqual = char.ToUpperInvariant('ı') == 'ı';
var correctRoundtrip = "İ".ToUpperInvariant().ToLower() != "
```

See

- Internationalization for Turkish
- How to correctly normalize strings
- Best Practices for Using Strings in .NET

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