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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

"switch case" clauses should not have too many lines of code

Analyze your code

Code Smell | Major | brain-overload

The `switch` statement should be used only to clearly define some new branches in the control flow. As soon as a `case` clause contains too many statements this highly decreases the readability of the overall control flow statement. In such case, the content of the `case` clause should be extracted into a dedicated method.

Noncompliant Code Example

With the default threshold of 3:

```
switch (myVariable)
{
    case 0: // Noncompliant: 5 statements in the case
        methodCall1("");
        methodCall2("");
        methodCall3("");
        methodCall4("");
        break;
    case 1:
        ...
}
```

Compliant Solution

```
switch (myVariable)
{
    case 0:
        DoSomething()
        break;
    case 1:
        ...
}
...
private void DoSomething()
{
    methodCall1("");
    methodCall2("");
    methodCall3("");
    methodCall4("");
}
```

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