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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

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Tags

Search by name...



Delegates should not be subtracted

Bug

"async" methods should not return "void"

Bug

"ThreadStatic" should not be used on non-static fields

Bug

"IDisposable" created in a "using" statement should not be returned

Bug

"ThreadStatic" fields should not be initialized

Bug

"Object.ReferenceEquals" should not be used for value types

Bug

Doubled prefix operators "!!" and "~~" should not be used

Bug

"=+" should not be used instead of "+="

Bug

"NaN" should not be used in comparisons

Bug

Conditionally executed code should be reachable

Bug

Null pointers should not be dereferenced

Bug

For-loop conditions should be true at least once

Bug

"default" clauses should be first or last

Analyze your code

Code Smell Critical

switch can contain a default clause for various reasons: to handle unexpected values, to show that all the cases were properly considered.

For readability purpose, to help a developer to quickly find the default behavior of a switch statement, it is recommended to put the default clause at the end of the switch statement. This rule raises an issue if the default clause is not the first or the last one of the switch's cases.

Noncompliant Code Example

```
switch (param)
{
    case 0:
        DoSomething();
        break;
    default: // default clause should be the first or last one
        Error();
        break;
    case 1:
        DoSomethingElse();
        break;
}
```

Compliant Solution

```
switch (param)
{
    case 0:
        DoSomething();
        break;
    case 1:
        DoSomethingElse();
        break;
    default:
        Error();
        break;
}
```

Available In:

sonarlint sonarcloud sonarqube

 Bug

A "for" loop update clause should move the counter in the right direction

 Bug

"ToString()" method should not return null

 Bug

Return values from functions without side effects should not be ignored

 Bug

Values should not be uselessly incremented

