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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

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"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

Empty "default" clauses should be removed

Analyze your code

Code Smell Minor Quick Fix unused finding clumsy

The default clause should take appropriate action. Having an empty default is a waste of keystrokes.

Noncompliant Code Example

```
enum Fruit
{
    Apple,
    Orange,
    Banana
}

void PrintName(Fruit fruit)
{
    switch(fruit)
    {
        case Fruit.Apple:
            Console.WriteLine("apple");
            break;
        default: //Noncompliant
            break;
    }
}
```

Compliant Solution

```
enum Fruit
{
    Apple,
    Orange,
    Banana
}

void PrintName(Fruit fruit)
{
    switch(fruit)
    {
        case Fruit.Apple:
            Console.WriteLine("apple");
            break;
        default:
            throw new NotSupportedException();
    }
}
```

or

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

```
void PrintName(Fruit fruit)
{
    switch(fruit)
    {
        case Fruit.Apple:
            Console.WriteLine("apple");
            break;
    }
}
```

Exceptions

default clauses containing only a comment are ignored with the assumption that they are empty on purpose and the comment documents why.

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