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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

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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

An abstract class should have both abstract and concrete methods

Analyze your code

Code Smell Minor ? convention

The purpose of an abstract class is to provide some heritable behaviors while also defining methods which must be implemented by sub-classes.

A class with no abstract methods that was made abstract purely to prevent instantiation should be converted to a concrete class (i.e. remove the abstract keyword) with a protected constructor.

A class with only abstract methods and no inheritable behavior should be converted to an interface.

Noncompliant Code Example

```
public abstract class Animal //Noncompliant; should be an in
{
    abstract void Move();
    abstract void Feed();
}

public abstract class Color //Noncompliant; should be concre
{
    private int red = 0;
    private int green = 0;
    private int blue = 0;

    public int GetRed()
    {
        return red;
    }
}
```

Compliant Solution

```
public interface Animal
{
    void Move();
    void Feed();
}

public class Color
{
    private int red = 0;
    private int green = 0;
    private int blue = 0;

    protected Color()
    {}

    public int GetRed()
    {
```

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

```
        return red;
    }
}

public abstract class Lamp
{
    private bool switchLamp = false;

    public abstract void Glow();

    public void FlipSwitch()
    {
        switchLamp = !switchLamp;
        if (switchLamp)
        {
            Glow();
        }
    }
}
```

Available In:

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