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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

### Child class fields should not shadow parent class fields

Analyze your code

Code Smell Blocker ? confusing

Having a variable with the same name in two unrelated classes is fine, but do the same thing within a class hierarchy and you'll get confusion at best, chaos at worst.

#### Noncompliant Code Example

```
public class Fruit
{
    protected Season ripe;
    protected Color flesh;

    // ...
}

public class Raspberry : Fruit
{
    private bool ripe; // Noncompliant
    private static Color FLESH; // Noncompliant
}
```

#### Compliant Solution

```
public class Fruit
{
    protected Season ripe;
    protected Color flesh;

    // ...
}

public class Raspberry : Fruit
{
    private bool ripened;
    private static Color FLESH_COLOR;
}
```

#### Exceptions

This rule ignores same-name fields that are static in both the parent and child classes. It also ignores private parent class fields, but in all other such cases, the child class field should be renamed.

```
public class Fruit
{
    private Season ripe;
    // ...
}

public class Raspberry : Fruit
```

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

```
{  
  private Season ripe; // Compliant as parent field 'ripe'  
  // ...  
}
```

Available In:

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