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C# static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code

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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

Interface methods should be callable by derived types

Analyze your code

Code Smell Critical ? pitfall

When a base type explicitly implements a public interface method, that method is only accessible in derived types through a reference to the current instance (namely `this`). If the derived type explicitly overrides that interface method, the base implementation becomes inaccessible.

This rule raises an issue when an unsealed, externally visible type provides an explicit method implementation of a `public interface` and does not provide an alternate, externally visible method with the same name.

Noncompliant Code Example

```
public interface IMyInterface
{
    void MyMethod();
}

public class Foo : IMyInterface
{
    void IMyInterface.MyMethod() // Noncompliant
    {
        MyMethod();
    }

    void MyMethod()
    {
        // Do something ...
    }
}

public class Bar : Foo, IMyInterface
{
    public void MyMethod()
    {
        // Can't access base.MyMethod()
        // ((IMyInterface)this).MyMethod() would be a recurs
    }
}
```

Compliant Solution

```
public interface IMyInterface
{
    void MyMethod();
}

public class Foo : IMyInterface
{
    void IMyInterface.MyMethod()
    {
    }
}
```

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

```
MyMethod();  
}  
  
protected void MyMethod() // or public  
{  
    // Do something ...  
}  
  
public class Bar : Foo, IMYInterface  
{  
    public void MyMethod()  
    {  
        // Do something  
        base.MyMethod();  
    }  
}
```

Exceptions

This rule does not report a violation for an explicit implementation of `IDisposable.Dispose` when an externally visible `Close()` or `System.IDisposable.Dispose(Boolean)` method is provided.

Available In:

sonarlint  | **sonarcloud**  | **sonarqube** 