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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

"static readonly" constants should be "const" instead

Analyze your code

Code Smell Minor performance

The value of a `static readonly` field is computed at runtime while the value of a `const` field is calculated at compile time, which improves performance.

This rule raises an issue when a `static readonly` field is initialized with a value that is computable at compile time.

As specified by Microsoft, the list of types that can have a constant value are:

C# type	.Net Fwk type
bool	System.Boolean
byte	System.Byte
sbyte	System.SByte
char	System.Char
decimal	System.Decimal
double	System.Double
float	System.Single
int	System.Int32
uint	System.UInt32
long	System.Int64
ulong	System.UInt64
short	System.Int16
ushort	System.UInt16
string	System.String

Noncompliant Code Example

```
namespace myLib
{
    public class Foo
    {
        static readonly int x = 1; // Noncompliant
        static readonly int y = x + 4; // Noncompliant
        static readonly string s = "Bar"; // Noncompliant
    }
}
```

Compliant Solution

```
namespace myLib
{
    public class Foo
    {
        const int x = 1;
        const int y = x + 4;
        const string s = "Bar";
    }
}
```

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

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