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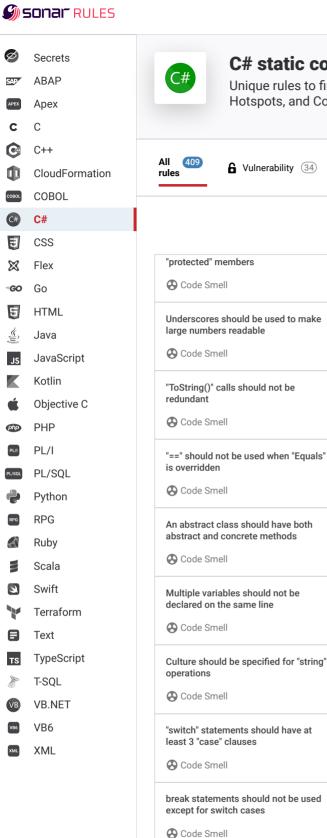
Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code

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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
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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

Multidimensional arrays should not be used

Analyze your code

⊘ Code Smell   ⌄ Minor ?   🏷 design

A jagged array is an array whose elements are arrays. It is recommended over a multidimensional array because the arrays that make up the elements can be of different sizes, which avoids wasting memory space.

Noncompliant Code Example

```
int [,] myArray =  // Noncompliant
    {
        {1,2,3,4},
        {5,6,7,0},
        {8,0,0,0},
        {9,0,0,0}
    };
// ...
myArray[1,1] = 0;
```

Compliant Solution

```
int[][] myArray =
    {
        new int[] {1,2,3,4},
        new int[] {5,6,7},
        new int[] {8},
        new int[] {9}
    };
// ...
myArray[1][1] = 0;
```

Available In:

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A close curly brace should be located at the beginning of a line

⊗ Code Smell

Tabulation characters should not be used

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Methods and properties should be named in PascalCase

⊗ Code Smell

Track uses of in-source issue suppressions

⊗ Code Smell