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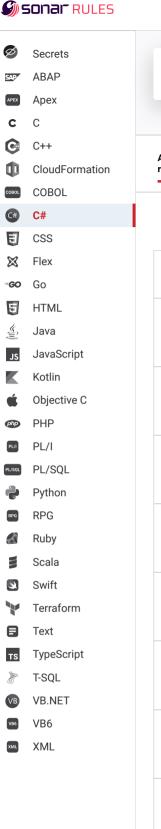
Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code

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"protected" members

⊘ Code Smell

Underscores should be used to make large numbers readable

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"ToString()" calls should not be redundant

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"==" should not be used when "Equals" is overridden

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An abstract class should have both abstract and concrete methods

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Multiple variables should not be declared on the same line

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Culture should be specified for "string" operations

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"switch" statements should have at least 3 "case" clauses

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break statements should not be used except for switch cases

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String literals should not be duplicated

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Files should contain an empty newline at the end

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Unused "using" should be removed

⊘ Code Smell

Unused local variables should be removed

Analyze your code

⊘ Code Smell   ⓥ Minor ?   🏷 unused

If a local variable is declared but not used, it is dead code and should be removed. Doing so will improve maintainability because developers will not wonder what the variable is used for.

Noncompliant Code Example

```
public int NumberOfMinutes(int hours)
{
    int seconds = 0;   // seconds is never used
    return hours * 60;
}
```

Compliant Solution

```
public int NumberOfMinutes(int hours)
{
    return hours * 60;
}
```

Exceptions

Unused locally created resources in a `using` statement are not reported.

```
using(var t = new TestTimer()) // t never used, but complian
{
    //...
}
```

Available In:

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

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Tabulation characters should not be used

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Methods and properties should be named in PascalCase

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Track uses of in-source issue suppressions

⊗ Code Smell