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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 | Bug 76 | Security Hotspot 28 | Code Smell 271 | Quick Fix 52

Tags

Search by name...

"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

Unassigned members should be removed

Analyze your code

Code Smell | Minor | suspicious

Fields and auto-properties that are never assigned to hold the default values for their types. They are either pointless code or, more likely, mistakes.

Noncompliant Code Example

```
class MyClass
{
  private int field; // Noncompliant, shouldn't it be initia
  private int Property { get; set; }  // Noncompliant
  public void Print()
  {
    Console.WriteLine(field); //Will always print 0
    Console.WriteLine(Property); //Will always print 0
  }
}
```

Compliant Solution

```
class MyClass
{
  private int field = 1;
  private int Property { get; set; } = 42;
  public void Print()
  {
    field++;
    Console.WriteLine(field);
    Console.WriteLine(Property);
  }
}
```

Exceptions

- Fields on types decorated with `System.SerializableAttribute` attribute.

Available In:

sonarlint | sonarcloud | sonarqube

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