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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

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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

### Generic parameters not constrained to reference types should not be compared to "null"

Analyze your code

Bug Minor Quick Fix

When constraints have not been applied to restrict a generic type parameter to be a reference type, then a value type, such as a struct, could also be passed. In such cases, comparing the type parameter to null would always be false, because a struct can be empty, but never null. If a value type is truly what's expected, then the comparison should use default(). If it's not, then constraints should be added so that no value type can be passed.

#### Noncompliant Code Example

```
private bool IsDefault<T>(T value)
{
    if (value == null) // Noncompliant
    {
        // ...
    }
    // ...
}
```

#### Compliant Solution

```
private bool IsDefault<T>(T value)
{
    if(object.Equals(value, default(T)))
    {
        // ...
    }
    // ...
}
```

or

```
private bool IsDefault<T>(T value) where T : class
{
    if (value == null)
    {
        // ...
    }
    // ...
}
```

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