

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C#**
- CSS
- Flex
- Go
- HTML
- Java
- JavaScript
- Kotlin
- Objective C
- PHP
- PL/I
- PL/SQL
- Python
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML



## 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... 🔍

Loops should be simplified with "LINQ" expressions

Code Smell

Namespaces should not be empty

Code Smell

Non-derived "private" classes and records should be "sealed"

Code Smell

"string.IsNullOrEmpty" should be used

Code Smell

Implementations should be provided for "partial" methods

Code Smell

Duplicate casts should not be made

Code Smell

Methods should not return values that are never used

Code Smell

Caller information arguments should not be provided explicitly

Code Smell

Method calls should not resolve ambiguously to overloads with "params"

Code Smell

"catch" clauses should do more than rethrow

Code Smell

Generic exceptions should not be ignored

Code Smell

Mutable fields should not be "public static"

Code Smell

### "ToString()" method should not return null

Analyze your code

Bug Major cwe

Calling ToString() on an object should always return a string. Returning null instead contravenes the method's implicit contract.

#### Noncompliant Code Example

```
public override string ToString ()
{
    if (this.collection.Count == 0)
    {
        return null; // Noncompliant
    }
    else
    {
        // ...
    }
}
```

#### Compliant Solution

```
public override string ToString ()
{
    if (this.collection.Count == 0)
    {
        return string.Empty;
    }
    else
    {
        // ...
    }
}
```

#### See

- MITRE, CWE-476 - NULL Pointer Dereference

Available In:

sonarlint | sonarcloud | sonarqube

Enumeration type names should not have "Flags" or "Enum" suffixes

 Code Smell

Enumeration types should comply with a naming convention

 Code Smell

Trivial properties should be auto-implemented

 Code Smell

Runtime type checking should be simplified

 Code Smell