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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... 🔍

Writing cookies is security-sensitive

Security Hotspot

Methods should be named according to their synchronicities

Code Smell

Extensions should be in separate namespaces

Code Smell

Extension methods should not extend "object"

Code Smell

Operator overloads should have named alternatives

Code Smell

Non-abstract attributes should be sealed

Code Smell

Overloads with a "StringComparison" parameter should be used

Code Smell

Overloads with a "CultureInfo" or an "IFormatProvider" parameter should be used

Code Smell

Types should not extend outdated base types

Code Smell

Properties should be preferred

Code Smell

Generics should be used when appropriate

Code Smell

Type names should not match namespaces

Code Smell

General exceptions should never be thrown

Analyze your code

Code Smell Major cwe error-handling

Throwing such general exceptions as `Exception`, `SystemException`, `ApplicationException`, `IndexOutOfRangeException`, `NullReferenceException`, `OutOfMemoryException` and `ExecutionEngineException` prevents calling methods from handling true, system-generated exceptions differently than application-generated errors.

Noncompliant Code Example

```
public void DoSomething(object obj)
{
    if (obj == null)
    {
        throw new NullReferenceException("obj"); // Noncompliant
    }
    // ...
}
```

Compliant Solution

```
public void DoSomething(object obj)
{
    if (obj == null)
    {
        throw new ArgumentNullException("obj");
    }
    // ...
}
```

See

- [MITRE, CWE-397](#) - Declaration of Throws for Generic Exception

Available In:

sonarlint | sonarcloud | sonarqube

Strings should be normalized to uppercase

 Code Smell

Exceptions should provide standard constructors

 Code Smell

Assemblies should be marked with "NeutralResourcesLanguageAttribute"

 Code Smell

Interfaces should not be empty

 Code Smell