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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...

secured
Vulnerability

Calculations should not overflow
Bug

Floating point numbers should not be tested for equality
Bug

Increment (++) and decrement (--) operators should not be used in a method call or mixed with other operators in an expression
Code Smell

Use a testable date/time provider.
Code Smell

Property names should not match get methods
Code Smell

Locales should be set for data types
Code Smell

Literals should not be passed as localized parameters
Code Smell

Operators should be overloaded consistently
Code Smell

Method signatures should not contain nested generic types
Code Smell

Enumeration members should not be named "Reserved"
Code Smell

"System.Uri" arguments should be used instead of strings
Code Smell

Ternary operators should not be nested

Analyze your code

Code Smell Major confusing

Just because you *can* do something, doesn't mean you should, and that's the case with nested ternary operations. Nesting ternary operators results in the kind of code that may seem clear as day when you write it, but six months later will leave maintainers (or worse - future you) scratching their heads and cursing.

Instead, err on the side of clarity, and use another line to express the nested operation as a separate statement.

Noncompliant Code Example

```
public string GetReadableStatus(Job j)
{
  return j.IsRunning ? "Running" : j.HasErrors ? "Failed" :
}
```

Compliant Solution

```
public string GetReadableStatus(Job j)
{
  if (j.IsRunning)
  {
    return "Running";
  }
  return j.HasErrors ? "Failed" : "Succeeded";
}
```

Available In:

sonarlint sonarcloud sonarqube

Privacy Policy

Collection properties should be readonly

Code Smell

Disposable types should declare finalizers

Code Smell

String URI overloads should call "System.Uri" overloads

Code Smell

URI properties should not be strings

Code Smell