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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

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Code Smell 271

Quick Fix 52

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### Security-sensitive

Security Hotspot

Creating cookies without the "HttpOnly" flag is security-sensitive

Security Hotspot

Creating cookies without the "secure" flag is security-sensitive

Security Hotspot

Literal suffixes should be upper case

Code Smell

Null checks should not be used with "is"

Code Smell

Method overloads should be grouped together

Code Smell

"params" should be used instead of "varargs"

Code Smell

"static" fields should be initialized inline

Code Smell

Classes that provide "Equals(<T>)" should implement "IEquatable<T>"

Code Smell

Jump statements should not be redundant

Code Smell

Member initializer values should not be redundant

Code Smell

Unassigned members should be removed

Code Smell

### "IDisposable" created in a "using" statement should not be returned

Analyze your code

Bug Major ?

Typically you want to use using to create a local IDisposable variable; it will trigger disposal of the object when control passes out of the block's scope. The exception to this rule is when your method returns that IDisposable. In that case using disposes of the object before the caller can make use of it, likely causing exceptions at runtime. So you should either remove using or avoid returning the IDisposable.

#### Noncompliant Code Example

```
public FileStream WriteToFile(string path, string text)
{
    using (var fs = File.Create(path)) // Noncompliant
    {
        var bytes = Encoding.UTF8.GetBytes(text);
        fs.Write(bytes, 0, bytes.Length);
        return fs;
    }
}
```

#### Compliant Solution

```
public FileStream WriteToFile(string path, string text)
{
    var fs = File.Create(path);
    var bytes = Encoding.UTF8.GetBytes(text);
    fs.Write(bytes, 0, bytes.Length);
    return fs;
}
```

Available In:

sonarlint | sonarcloud | sonarqube

Empty "case" clauses that fall through to the "default" should be omitted

 Code Smell

Parameters with "[DefaultParameterValue]" attributes should also be marked "[Optional]"

 Code Smell

Interfaces should not simply inherit from base interfaces with colliding members

 Code Smell

Variables should not be checked against the value they're about to be