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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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Code Smell 271

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Search by name...

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

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

URI return values should not be strings

Code Smell

URI Parameters should not be strings

Code Smell

Custom attributes should be marked with "System.AttributeUsageAttribute"

Code Smell

Assemblies should explicitly specify COM visibility

Code Smell

Assemblies should be marked as CLS compliant

Code Smell

Reflection should not be used to increase accessibility of classes, methods, or fields

Analyze your code

Code Smell Major ?

This rule raises an issue when reflection is used to change the visibility of a class, method or field, and when it is used to directly update a field value. Altering or bypassing the accessibility of classes, methods, or fields violates the encapsulation principle and could lead to run-time errors.

Noncompliant Code Example

```
using System.Reflection;

Type dynClass = Type.GetType("MyInternalClass");
// Noncompliant. Using BindingFlags.NonPublic will return no
BindingFlags bindingAttr = BindingFlags.NonPublic | BindingF
MethodInfo dynMethod = dynClass.GetMethod("mymethod", bindin
object result = dynMethod.Invoke(dynClass, null);
```

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**"Generic.List" instances should not be part of public APIs**

 Code Smell

**Collections should implement the generic interface**

 Code Smell

**Generic event handlers should be used**

 Code Smell

**Event Handlers should have the correct signature**

 Code Smell