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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**

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Bug

"ThreadStatic" fields should not be initialized

Bug

"Object.ReferenceEquals" should not be used for value types

Bug

Doubled prefix operators "!!" and "~~" should not be used

Bug

"=+" should not be used instead of "+="

Bug

"NaN" should not be used in comparisons

Bug

Conditionally executed code should be reachable

Bug

Null pointers should not be dereferenced

Bug

For-loop conditions should be true at least once

Bug

A "for" loop update clause should move the counter in the right direction

Bug

"ToString()" method should not return null

Bug

Return values from functions without side effects should not be ignored

Bug

Base class methods should not be hidden

Analyze your code

Code Smell Critical pitfall

When a method in a derived class has the same name as a method in the base class but with a signature that only differs by types that are weakly derived (e.g. object vs string), the result is that the base method becomes hidden.

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
    class Foo
    {
        internal void SomeMethod(string s1, string s2) { }
    }

    class Bar : Foo
    {
        internal void SomeMethod(string s1, object o2) { } // N
    }
}
```

Compliant Solution





```
using System;

namespace MyLibrary
{
    class Foo
    {
        internal void SomeMethod(string s1, string s2) { }
    }

    class Bar : Foo
    {
        internal void SomeOtherMethod(string s1, object o2) { }
    }
}
```

Available In:

sonarlint sonarcloud sonarqube

<p>Values should not be uselessly incremented</p> <p> Bug</p>
<p>Collections should not be passed as arguments to their own methods</p> <p> Bug</p>
<p>Related "if/else if" statements should not have the same condition</p> <p> Bug</p>
<p>Objects should not be created to be dropped immediately without being used</p> <p> Bug</p>