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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...

Exceptions should not be explicitly rethrown

⊘ Code Smell

"abstract" classes should not have "public" constructors

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Assertion arguments should be passed in the correct order

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Ternary operators should not be nested

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Events should be invoked

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"params" should be used on overrides

⊘ Code Smell

Generic type parameters should be co/contravariant when possible

⊘ Code Smell

Multiple "OrderBy" calls should not be used

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

⊘ Code Smell

Static fields should not be updated in constructors

⊘ Code Smell

"IEnumerable" LINQs should be simplified

⊘ Code Smell

Fields that are only assigned in the constructor should be "readonly"

Methods should not be empty

Analyze your code

⊘ Code Smell   ⬆ Critical ?   Quick Fix ?   🏷 suspicious

There are several reasons for a method not to have a method body:

- It is an unintentional omission, and should be fixed.
- It is not yet, or never will be, supported. In this case a `NotSupportedException` should be thrown.
- The method is an intentionally-blank override. In this case a nested comment should explain the reason for the blank override.

Noncompliant Code Example

```
public override void DoSomething()
{
}

public override void DoSomethingElse()
{
}
```

Compliant Solution

```
public override void DoSomething()
{
  // Do nothing because of X and Y.
}

public override void DoSomethingElse()
{
  throw new NotSupportedException();
}
```

Exceptions

The following methods are ignored:

- empty `virtual` methods,
- empty methods that override an `abstract` method,
- empty overrides in test assemblies.

Available In:

sonarlint ⊝ | sonarcloud ☁ | sonarqube ⦙⦙

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Static fields should not be used in generic types

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Multiline blocks should be enclosed in curly braces

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Boolean expressions should not be gratuitous

⊗ Code Smell

Types and methods should not have too many generic parameters