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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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Classes should "Dispose" of members from the classes' own "Dispose" methods

Bug

Reading the Standard Input is security-sensitive

Security Hotspot

Using command line arguments is security-sensitive

Security Hotspot

Using Sockets is security-sensitive

Security Hotspot

Encrypting data is security-sensitive

Security Hotspot

Using regular expressions is security-sensitive

Security Hotspot

Interface methods should be callable by derived types

Code Smell

Child class fields should not differ from parent class fields only by capitalization

Code Smell

Pointers to unmanaged memory should not be visible

Code Smell

Number patterns should be regular

Code Smell

"out" and "ref" parameters should not be used

Code Smell

Unchanged local variables should be "const"

### Events should have proper arguments

Analyze your code

Code Smell Major event pitfall

When raising an event, two arguments are expected by the `EventHandler` delegate: Sender and event-data. There are three guidelines regarding these parameters:

- Do not pass `null` as the sender when raising a non-static event.
- Do pass `null` as the sender when raising a static event.
- Do not pass `null` as the event-data. If no data should be passed, then `EventArgs.Empty` should be used.

This rule raises an issue when any of these guidelines is not met.

#### Noncompliant Code Example

```
using System;

namespace MyLibrary
{
    class Foo
    {
        public event EventHandler ThresholdReached;

        protected virtual void OnThresholdReached(EventArgs e)
        {
            ThresholdReached?.Invoke(null, e); // Noncompliant
        }
    }
}
```

#### Compliant Solution

```
using System;

namespace MyLibrary
{
    class Foo
    {
        public event EventHandler ThresholdReached;

        protected virtual void OnThresholdReached(EventArgs e)
        {
            ThresholdReached?.Invoke(this, e);
        }
    }
}
```

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 Code Smell

**"ConfigureAwait(false)" should be used**

 Code Smell

**"interface" instances should not be cast to concrete types**

 Code Smell

**Literal boolean values should not be used in assertions**

 Code Smell

**Optional parameters should not be used**

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