

Code Smell

capitalization

Code Smell

A Code Smell

should not be visible

Child class fields should not differ

from parent class fields only by

Pointers to unmanaged memory

Number patterns should be regular

```
C# static code analysis
             Unique rules to find Bugs, Vulnerabilities, Security
             Hotspots, and Code Smells in your C# code
                                                                                                Quick 52
Fix
                                                                           Security
                                                                   (28)
             6 Vulnerability (34)
                                     ₩ Bug (76)
                                                        Hotspot
                                                        Tags
                                                                                    Search by name..
                                             Parameter validation in yielding
                                                                                          Analyze your code
Track lack of copyright and license
                                             methods should be wrapped
                                             yield
Exit methods should not be called
                                             Because of the way yield methods are rewritten by the compiler (they become
                                            lazily evaluated state machines) any exceptions thrown during the parameters
                                            check will happen only when the collection is iterated over. That could happen far
                                            away from the source of the buggy code.
Classes should "Dispose" of members
from the classes' own "Dispose"
                                             Therefore it is recommended to split the method into two: an outer method handling
                                            the validation (no longer lazy) and an inner (lazy) method to handle the iteration.
                                             This rule raises an issue when a method throws any exception derived from
                                            ArgumentException and contains the yield keyword.
Reading the Standard Input is
                                            Noncompliant Code Example
security-sensitive
Security Hotspot
                                              public static IEnumerable<TSource> TakeWhile<TSource>(this I
Using command line arguments is
                                                   if (source == null) { throw new ArgumentNullException(na
security-sensitive
                                                   if (predicate == null) { throw new ArgumentNullException
Security Hotspot
                                                   foreach (var element in source)
                                                   {
                                                       if (!predicate(element)) { break; }
Using Sockets is security-sensitive
                                                       yield return element;
Security Hotspot
```

## **Compliant Solution**

```
public static IEnumerable<TSource> TakeWhile<TSource>(this I
    if (source == null) { throw new ArgumentNullException(na
    if (predicate == null) { throw new ArgumentNullException
    return TakeWhileIterator<TSource>(source, predicate);
private static IEnumerable<TSource> TakeWhileIterator<TSourc</pre>
    foreach (TSource element in source)
        if (!predicate(element)) break;
        yield return element;
}
```

Available In:

sonarlint ⊕ | sonarcloud ♦ | sonarqube

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

Code Smell

Unchanged local variables should be "const"

Code Smell

"ConfigureAwait(false)" should be used

Code Smell

"ConfigureAwait(false)" should be used

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.

Privacy Policy