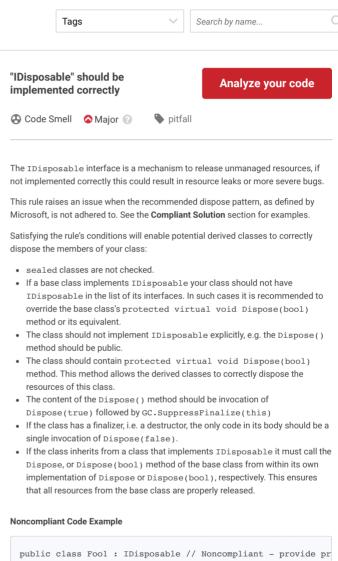




A Rug



public void Dispose() // Noncompliant - should contain o

void IDisposable.Dispose() // Noncompliant - Dispose() s

public virtual void Dispose() // Noncompliant - Dispose(

// Cleanup

public class Foo2 : IDisposable

Dispose(true);

Dispose(true):

GC.SuppressFinalize(this);

GC.SuppressFinalize(this);

TE Duy

Floating point numbers should not be tested for equality

₩ Bug

Increment (++) and decrement (--) operators should not be used in a method call or mixed with other operators in an expression

Code Smell

Use a testable date/time provider.

Code Smell

Property names should not match get methods

```
public class Foo3 : IDisposable
{
    public void Dispose()
    {
        Dispose(true);
        GC.SuppressFinalize(this);
    }

    protected virtual void Dispose(bool disposing)
    {
            // Cleanup
    }

    ~Foo3() // Noncompliant - Modify Foo.~Foo() so that it c
            {
                  // Cleanup
            }
}{code}
```

Compliant Solution

```
// Sealed class
public sealed class Fool : IDisposable
    public void Dispose()
        // Cleanup
// Simple implementation
public class Foo2 : IDisposable
    public void Dispose()
        Dispose(true);
       GC.SuppressFinalize(this);
    protected virtual void Dispose(bool disposing)
        // Cleanup
// Implementation with a finalizer
public class Foo3 : IDisposable
    public void Dispose()
        Dispose(true);
        GC.SuppressFinalize(this);
    protected virtual void Dispose(bool disposing)
        // Cleanup
    ~Foo3()
       Dispose(false);
// Base disposable class
public class Foo4 : DisposableBase
    protected override void Dispose(bool disposing)
       // Cleanup
       // Do not forget to call base
        base.Dispose(disposing);
}
```

See

Refer to

- MSDN for complete documentation on the dispose pattern.
- Stephen Cleary for excellent Q&A about IDisposable
- Pragma Geek for additional usages of IDisposable, beyond releasing resources.
- IDisposable documentation

Available In:

sonarlint ⊕ | sonarcloud & | sonarqube

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