Q



Swift

Text

T-SQL

VB.NET

VB6

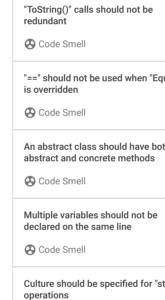
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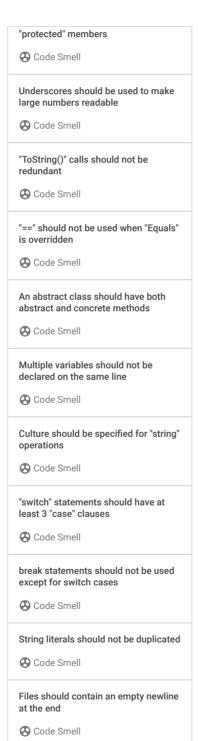
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rules



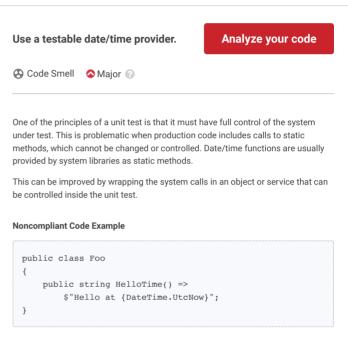
## C# static code analysis Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code O Quick 52 Fix Security (28) 6 Vulnerability (34) **#** Bug (76) Hotspot

Tags



Unused "using" should be removed

Code Smell



Search by name..

## **Compliant Solution**

There are different approaches to solve this problem. One of them is suggested below. There are also open source libraries (such as NodaTime) which already implement an TClock interface and a FakeClock testing class.

```
public interface IClock
    DateTime UtcNow();
public class Foo
    public string HelloTime(IClock clock) =>
        $"Hello at {clock.UtcNow()}";
public class FooTest
    public record TestClock(DateTime now) : IClock
        public DateTime UtcNow() => now;
    [Fact]
    public void HelloTime_Gives_CorrectTime()
        var dateTime = new DateTime(2017, 06, 11);
        Assert.Equal((new Foo()).HelloTime(new TestClock(dat
}
```

A close curly brace should be located at the beginning of a line

Code Smell

Tabulation characters should not be used

Code Smell

Methods and properties should be named in PascalCase

Code Smell

Track uses of in-source issue suppressions

Code Smell

Another possible solution is using an adaptable static class, ideally supports an IDisposable method, that not only adjusts the time behaviour for the current thread only, but also for scope of the using.

```
public static class Clock
    public static DateTime UtcNow() { /* ... */ }
    public static IDisposable SetTimeForCurrentThread(Func<D</pre>
public class Foo
    public string HelloTime() =>
       $"Hello at {Clock.UtcNow()}";
}
public class FooTest
   public void HelloTime_Gives_CorrectTime()
        var dateTime = new DateTime(2017, 06, 11);
        using (Clock.SetTimeForCurrentThread(() => dateTime)
             Assert.Equal((new Foo()).HelloTime(), $"Hello a
   }
}
```

See

NodaTime testing

Available In:

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