

.NEXT PRESENTS
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MOCKS, STUBS
and

ROCK'N'ROLL

maintainable unit tests
with **AutoFixture**

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Goals

- Dig into common maintainability problems
- Discover solutions
 - Minimum amount of code
 - Keep only essential parts of the tests
 - Follow DRY



Arrange



Act



Assert

Teardown

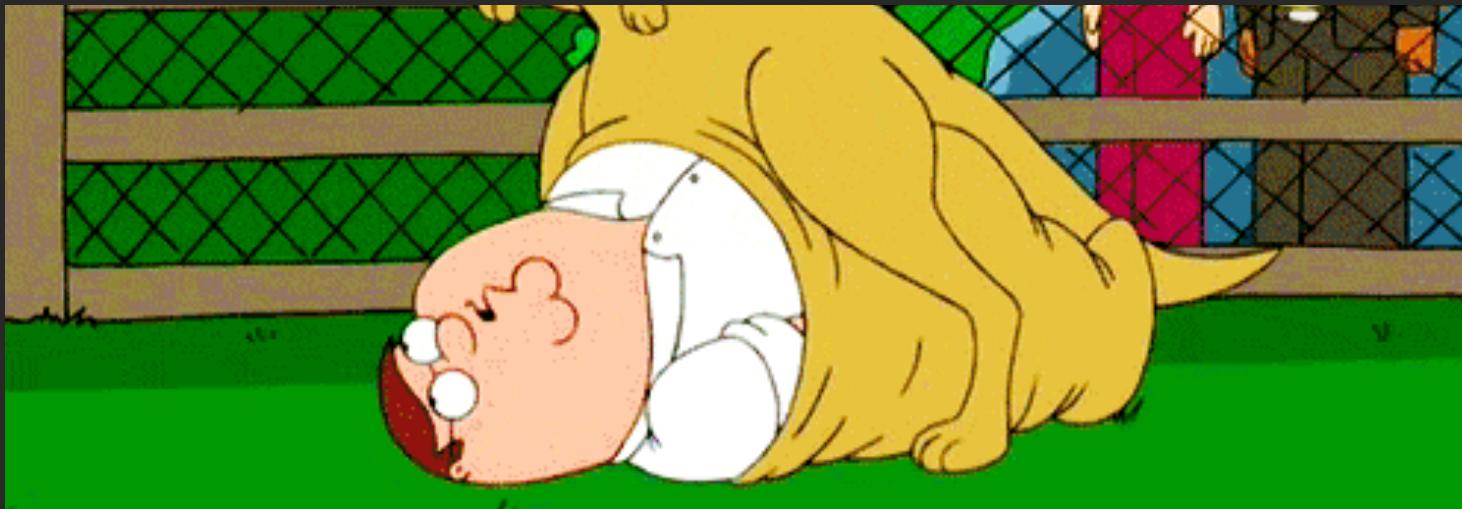


[Fact]

```
public void NirvanaGig_Always_ShouldBeAwesome() {
```



```
    performer.Name = "Nirvana";
```



```
    sut.Perform(); // Act
```

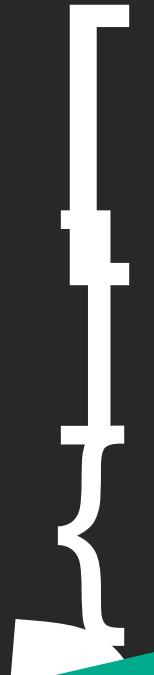
```
    Assert.Equal(Mood.Awesome, crowd.Mood); // Assert
```

```
}
```

Pain Points

- Constructors
 - hard to maintain
- Stubs, Mocks, Fakes
 - boring code
- Hard-coded literals
 - are they essentials?
- Unnecessary details
 - too fat Arrange phase

AUTOFixTUR
Je



Show me the code!

Demo recap

- Imperative tests by manual creating Fixture
- Declarative tests
 - AutoData, InlineAutoData, Custom domain attributes
 - xUnit.net, NUnit
- Auto-mocking container
 - Moq, Foq, NSubstitute, FakeltEasy, RhinoMocks
- Repetitive tests using AutoFixture.Idioms
 - GuardClauseAssertion



/valmaev/mocks-stubs-
rocknroll

Further reading

- Mark Seemann's Pluralsight courses:
 - Outside-In TDD
 - Advanced Unit Testing
- Mark Seemann's blog: <http://blog.ploeh.dk>
- Nikos Baxevanis blog: <http://nikosbaxevanis.com>

About me

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Thanks