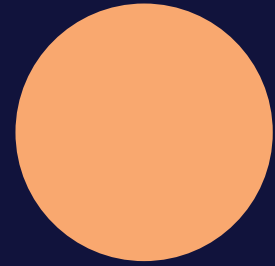


TDD - FLYING

The mock who loved me



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bouvet



Test doubles

What are they, where did they come from, why do we need them?

A test dummy is code that can be used instead of production code.

Test dummies comes from a mocking framework or are hand crafted.

We need them when testing behaviour of a system that interact with external systems.



Test doubles

Test dummy

Doesn't really do anything apart from satisfying the compiler.

```
public void Example()  
{  
    var _classThatDoesSomething = new ClassThatDoesSomething(null);  
    _classThatDoesSomething.DoSomething();  
}
```



Test doubles

Stub

It just a small part of a whole program.

Created by a mocking framework.

```
var fake = Substitute.For<IExampleClass>();  
fake.DoSomething().Returns(int.MinValue);
```

Output is configured in the Arrange phase of a test.



Test doubles

Fake

Production-like replacement.

Hand-made

Always return the same pre-programmed output.

```
public class ExampleStub
{
    0 references
    public int DoSomething()
    {
        return 42;
    }
}
```



Test doubles

Mock

Used to verify behaviour.

```
var mock = Substitute.For<IExampleClass>();  
  
// Run test here...  
  
mock.Received().SaySomething("hello");
```

The mock asserts that the method was called as expected.



Test doubles

Spy

Spies are hand made.

Used when we need to look at the result of something, but don't want to use a mocking frame work.



Thank you for your time

Any questions?

Let's keep in touch:
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