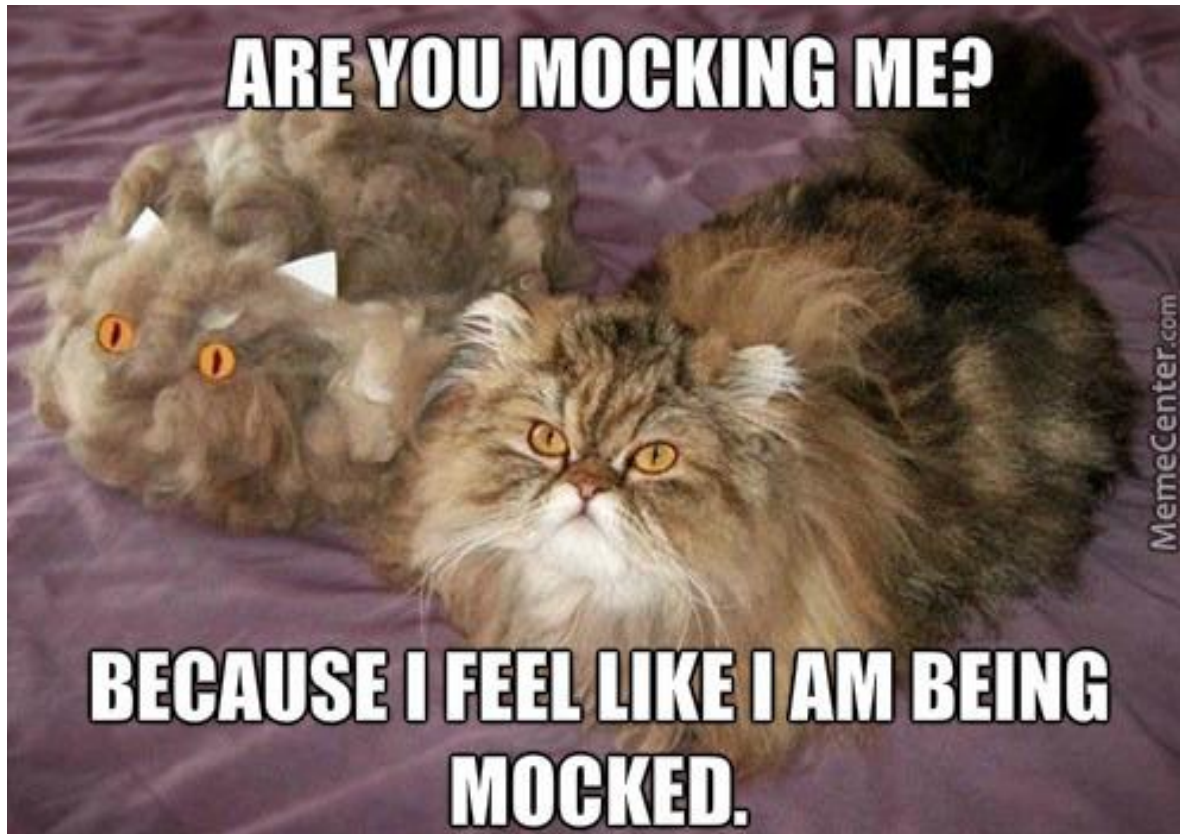




# Software quality and testing

## - 4<sup>th</sup> course

# Mocks

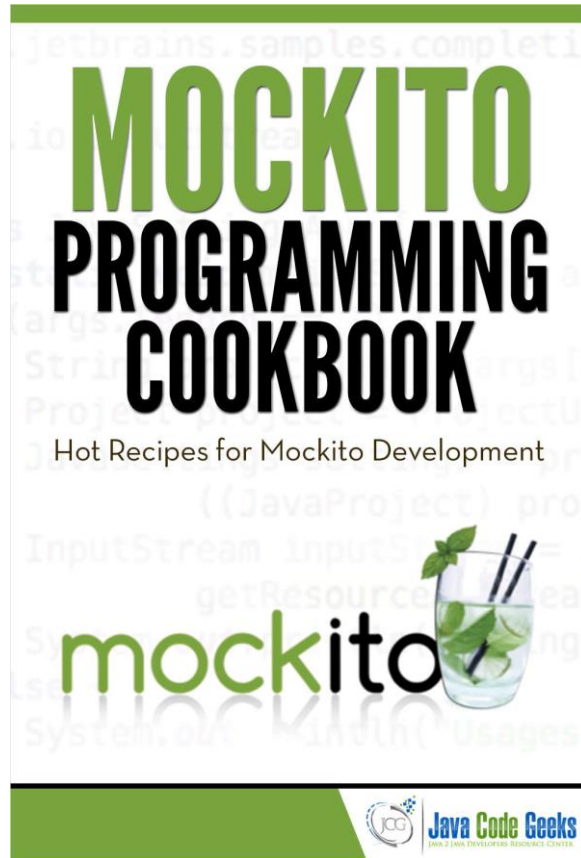


# (Power)Mockito framework

- Support both for TDD, BDD
- Ultimately it is expect-run-verify pattern



# Mockito book



# Powermockito

- **Static mocking**

Powermockito.mockStatic(Static.class)

- **Verification of behavior**

PowerMockito.verifyStatic()

Static.firstStaticMethod(param)

- **Argument matching**

PowerMockito.verifyStatic()

Static.thirdStaticMethod(Mockito.anyInt())

- **Make static void method to throw exception**

PowerMockito.doThrow(new ArrayStoreException("Mock error")).when(StaticService.class)

StaticService.executeMethod()



# Full example for mocking, stubbing, verifying static method



```
@RunWith(PowerMockRunner.class)
@PrepareForTest(Static.class)
public class YourTestCase {

    @Test public void testMethodThatCallsStaticMethod() {
        PowerMockito.mockStatic(Static.class);
        Mockito.when(Static.firstStaticMethod(param)).thenReturn(value);
        Mockito.when(Static.secondStaticMethod()).thenReturn(123);
        classCallStaticMethodObj.execute();
        PowerMockito.verifyStatic(Mockito.times(2));
        Static.firstStaticMethod(param);
        PowerMockito.verifyStatic();
        Static.secondStaticMethod();
        PowerMockito.verifyStatic(Mockito.never());
        Static.thirdStaticMethod();
    }
}
```



eitdigital.eu

<http://www.doctoralschool.eitdigital.eu/doctoral-training-centres/dtc-budapest/>