ChristophWelcz

# TDD with Spring Boot

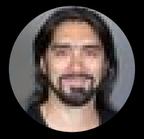
enolive.github.io/spring-tdd

# UNIT TESTS 1ST CLASS

# Definition

- comes out of the box
- All features testable
- no need for 3rd party libraries and tools

# WHAT ABOUT JEE?



**Antonio Goncalves**
@agoncal · **Follow**

I've reached a point where I can test Spring code in a couple of minutes, and Java EE code in a couple of hours :o(

11:23 AM · Jan 7, 2018

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# QUICKSTART

# How to do it?

1. maven dependency `spring-boot-starter-test`
2. Annotate your tests with `@SpringBootTest`
3. Use `@ContextConfiguration` to limit your testing scope!
4. Test
5. Implement
6. Refactor
7. GOTO 4.

groovy

```groovy
@SpringBootTest
@ContextConfiguration(classes = MyService)
class MyServiceTests extends Specification {
  @Autowired
  private MyService sut

  def "world is greeted"() {
    when: "we want a greeting"
    def result = sut.sayHello()

    then: "the world is greeted"
    result == "Hello, World!"
  }

  def "specified person #person is greeted with #expected"()
    when: "we want a specific greeting"
    def result = sut.sayHelloTo(name)

    then: "the greeting meets our demands"
    result == expected

    where:
    name    | expected
    "World" | "Hello, World!"
    "Chris" | "Hello, Chris!"
  }
}
```

# GOODIES

# Test Starter comes with

- JUnit
- AssertJ
- Mockito
- Test Utilities
- JSONassert
- …

→ …including Spock Framework highly recommended!

# TALK

# SCOPE

- Live Coding
- Spring Boot Project from scratch
- Fizz-Buzz
- TDD micro-cycle
- Java with Maven+Lombok for Implementation
- Spock for Testing (cause it’s groovy ❤)

# OUT OF SCOPE

# HIPSTER STUFF

Kotlin Gradle VAVR Property Based Testing

Reactive Web WebFlux Project Reactor Monads

Applicatives Validation Either JPA JDBC

Mongo Redis Spring Boot Profiles

Configuration Spring Security

# APP STRUCTURE

«bootstrap»
Application
starts
«REST»
Controller
uses
«Service»
Calculator

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# Let’s start 👩‍💻…

# 💗 for joining me!

- enolive.github.io/spring-tdd
- Spring Boot Testing
- Spock Framework