

Enterprise Testing with Spock

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About Me

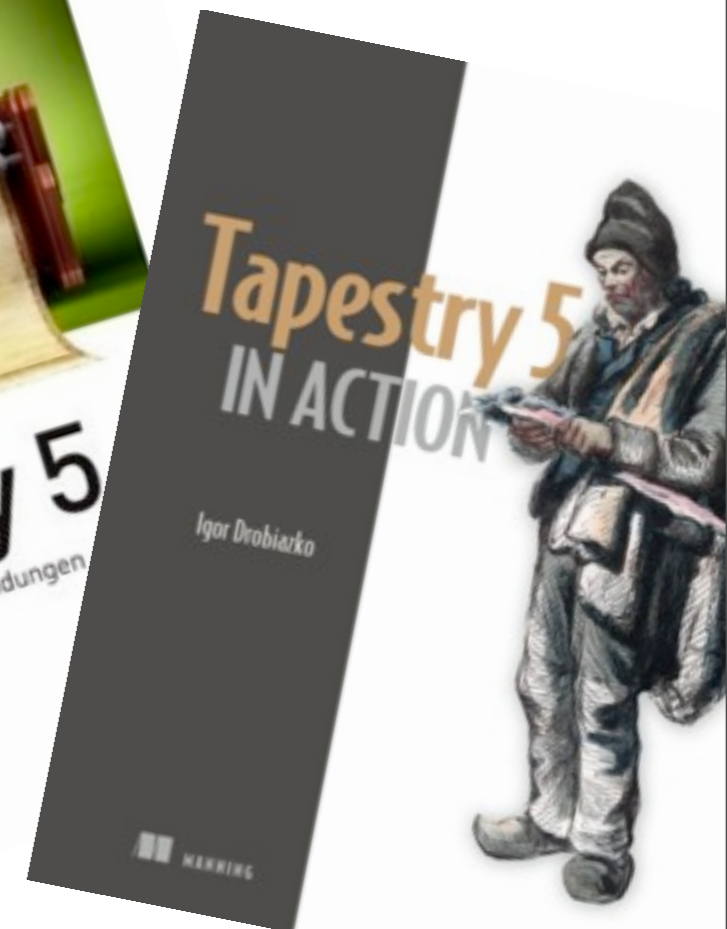
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Igor Drobiazko
Tapestry 5

Die Entwicklung von Webanwendungen
mit Leichtigkeit

ADDISON-WESLEY



Igor Drobiazko

MANNING

Agenda

- Why Spock?
- Spock basics
- Mock interactions
- Data driven tests
- Demos
- A lot of fun

What is Spock?

“Spock is a testing and specification framework for Java and Groovy applications. What makes it stand out from the crowd is its beautiful and highly expressive specification language.”

Peter Niederwieser, Creator of Spock Framework

Who is using Spock?



apache
tapestry 5
Code less, deliver more.



Spock

Geb



How to get started?

Spock Web Console

```
1 class HelloSpock extends spock.lang.Specification {
2
3     def "length of Spock's and his friends' names"() {
4         expect:
5         name.size() == length
6
7         where:
8         name      | length
9         "Spock"   | 5
10        "Kirk"    | 4
11        "Scotty"  | 6
12    }
13 }
14
```



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Result Output Stack Trace

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Tips & Tricks

- To run a script, press Alt-Meta-R
- To resize the script area, drag the horizontal rule

About Spock Web Console

- Based on [Groovy Web Console](#), code hosted on [GitHub](#)
- Powered by [Groovy 1.7.5](#) and [Spock 0.5.0-groovy-1.7](#)
- Syntax highlighting provided by [CodeMirror](#) and [SyntaxHighlighter](#)

How to get started?

- Homepage

<http://spockframework.org>

- Source code

<https://github.com/spockframework/spock>

- Presentation source code

<https://github.com/drobiazko/spock-demo>

Spock basics

Spock Specification

```
class HelloSpock extends spock.lang.Specification {
```

```
}
```

Spock Specification

```
class HelloSpock extends spock.lang.Specification {  
    def setupSpec() {}  
}
```

```
}
```

Spock Specification

```
class HelloSpock extends spock.lang.Specification {  
    def setupSpec() {}  
    def setup() {}  
}
```

Spock Specification

```
class HelloSpock extends spock.lang.Specification {  
    def setupSpec() {}  
  
    def setup() {}  
  
    def "this is a feature method"() { }  
  
}
```


Spock Specification

```
class HelloSpock extends spock.lang.Specification {  
    def setupSpec() {}  
    def setup() {}  
    def "this is a feature method"() { }  
    def cleanup() {}  
}
```

Spock Specification

```
class HelloSpock extends spock.lang.Specification {  
    def setupSpec() {}  
  
    def setup() {}  
  
    def "this is a feature method"() { }  
  
    def cleanup() {}  
  
    def cleanupSpec() {}  
}
```

Feature Method

```
def "this is a feature method"() {  
  given: / setup:  
  
  when:  
  
  then:  
  
  expect:  
  
  cleanup:  
  
  where:  
}
```

Hello Spock

```
class HelloSpock extends Specification {  
    def "greater of two numeric values"() {  
        expect:  
        Math.max(1, 3) == 3  
    }  
}
```

Demo

BDD?

Given an account with a balance of five euros
When two euros are withdrawn
Then the account's balance drops to three euros

BDD

```
def "withdraw amount from account"() {  
  given:  
  
  when:  
  
  then:  
}
```

Demo

Mock Interactions

Mocks

```
def service = Mock(Service)
```

```
Service service = Mock()
```

Interactions

```
service.execute(parameter) >> value
```

```
1 * subscriber.receive("msg")
```

Demo

Cardinality

```
service.execute(parameter)
```

Cardinality

`service.execute(parameter)`

`n * service.execute(parameter)`

Cardinality

`service.execute(parameter)`

`n * service.execute(parameter)`

`(n.._)* service.execute(parameter)`

Cardinality

`service.execute(parameter)`

`n * service.execute(parameter)`

`(n.._) * service.execute(parameter)`

`(_.n) * service.execute(parameter)`

Constraints

```
service.execute(parameter)
```


Constraints

`service.execute(parameter)`

`_.execute(parameter)`

Constraints

`service.execute(parameter)`

`_.execute(parameter)`

`service._(parameter)`

Constraints

`service.execute(parameter)`

`_.execute(parameter)`

`service._(parameter)`

`service./set.*/(_)`

Arguments

Arguments

```
service.execute()
```

Arguments

```
service.execute()
```

```
service.execute("msg")
```

Arguments

```
service.execute()
```

```
service.execute("msg")
```

```
service.execute(_)
```

Arguments

```
service.execute()
```

```
service.execute("msg")
```

```
service.execute(_)
```

```
service.execute(_ as String)
```


Arguments

```
service.execute()
```

```
service.execute("msg")
```

```
service.execute(_)
```

```
service.execute(_ as String)
```

```
service.execute(!null)
```

Arguments

```
service.execute()
```

```
service.execute("msg")
```

```
service.execute(_)
```

```
service.execute(_ as String)
```

```
service.execute(!null)
```

```
service.execute({it.contains("m")})
```

WTF?!

(_ . . _) * _ . _ (_) >> _

No more interactions



Thank you!

