



BDD with Cucumber and RSpec

Who am I?

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Been doing BDD for 2 years



www.edendevlopment.co.uk

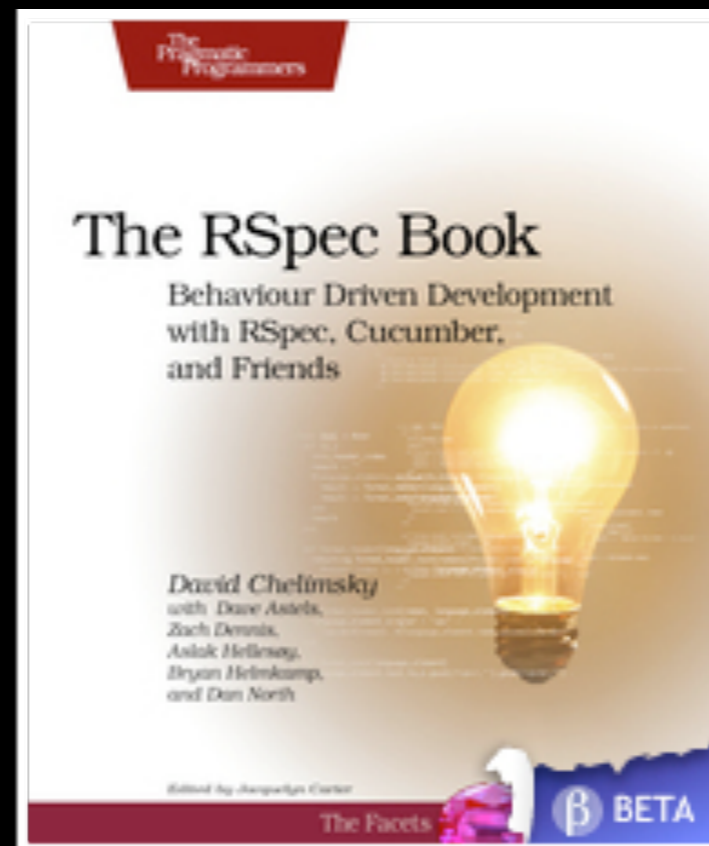
twitter.com/chrismdp

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#chrisramblesonforeveraboutbdd

#letstalkviatwittereventhoughwerealsitting
together

#ireadthisallintherspecbook



<http://www.pragprog.com/titles/achbd/the-rspec-book>

Goal

Know how to use Cucumber and RSpec
to do BDD everyday

What we're going to do

Brief overview of BDD
Intro to Cucumber + RSpec
Example
Coding Session 1
Feedback and Questions
Coding Session 2

The Origins of BDD

TDD

Test Driven Development

Test First

Write tests before code

Red/Green/Refactor

Don't forget the Refactor!

Red/Green/Refactor

Refactoring leads to
Emergent Design

TDD

Test? Driven Development

BDD

Behaviour Driven Development

Draws from NLP, ATDP, DDD

BDD

“Writing Software That Matters”

BDD

It's all Behaviour

BDD

Deliver Stakeholder Value

BDD

Enough is Enough:
Design only what you need to

BDD Resources

<http://behaviour-driven.org/>

<http://dannorth.net/>

<http://lizkeogh.com/category/bdd/>

<http://www.pragprog.com/titles/achbd/the-rspec-book>

Our BDD Tools

RSpec

Cucumber

Pivotal Tracker

Where do we start?

Start at the outside

...work in

Start with a Feature

Title

Narrative

Acceptance Criteria

Let's try it

I'm the customer

Ask questions

Come up with a feature with

Title, Narrative and Acceptance Criteria

Feature: <role> <action>

As a <role> I want <feature> so that <benefit>

Scenario: <role action>

Given <X>

When <Y>

Then <Z>

Scenario: <role action>

Given <X>

When <Y>

Then <Z>

Andy Waite

Feature: Title: Premium User Login

As a premium subscriber, I want to sign in so that I can access the content that I have paid for.

Scenario:

Given that I have a valid subscription, and that I am not logged in

When I follow the login link

Then I should be directed to the login page

Given that I have a valid subscription, and that I am on the log in page

When I enter valid email and password

Then I should see the message 'You have logged in'

Given that I have a valid subscription, and that I am on the log in page

When I enter invalid login credentials

Then I should see the message 'You have enter an invalid email or password'

My version

Feature: User signs in

As an unauthenticated user of the website I want to fill in my username and password and hit 'sign in'. I want to be taken back to the homepage with a 'welcome' message. This is so that I can identify myself to get personalised content.

Scenario: User logs in

Given a user called Joe

When I visit the homepage

And I enter my username as "Joe"

And I enter my password as "password"

And I click "log in"

Then I should be taken to the homepage

And I should see "Welcome to the site, Joe!"

And I should be logged into the site

Scenario: User types in wrong password...

Each line is executable

```
Given /a user called (.*)/ do |name|  
  User.create! :username => name  
end
```

```
When /I visit the homepage/ do  
  visit "/"  
end
```

```
Then /I should see "(.*)"/ do |text|  
  response.body.should =~ /#{text}/m  
end
```

Process

Write feature (just the plain text, no more)

Get it signed off (“is this what you meant?”)

Run feature

Look at the first failure

If it's a pending step, write it

If it's a failing step, write a failing spec which addresses it

Once we've finished, run the feature again

Continue until it's green

You're done

Benefits

You know exactly where you are

You'll be running your code within seconds of writing it

You're unlikely to go too far wrong

You know you're only writing what you need

Tips

Don't use scaffolds

Don't 'think ahead' (much) - fix the problem you see

Don't be too specific with your 'shoulds'

Write the interface you want to use

If you get stuck, run the feature to find out what's next

Stick at it

An Example

Introducing Hogwarts: the web app



Live Coding: hold onto your hats

Your Turn

Getting cucumber/ rspec (on OSX)

```
# Install XCode tools, then...  
sudo gem install nokogiri --version 1.2.3  
sudo gem install rspec rspec-rails cucumber
```

Getting the code

```
# get on the network
# copy the folder:
# (chris3:Public/bdd-workshop-your-turn)
# then...

$ rake db:create:all
$ rake db:migrate
```

Task 1:
Implement Feature 2

Feedback/Questions

Task 2: Implement Feature 3

...or get help with feature 2