Behavior Driven Development

How it can open your eyes

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Feature: An Introduction to BDD
  In order to introduce people to behavior driven development
  As a presenter
  I will discuss why BDD is important
  And I will demonstrate behavior driven development tools

Scenario: Demonstrate how to use Cucumber
 Given a desire to create higher quality software
 And a tool that executes feature documentation written in plain text
 When you watch this presentation
 Then you will gain an understanding of behavior driven design
 And see examples of behavior driven development with Cucumber
 And be equipped to integrate Cucumber into your development process
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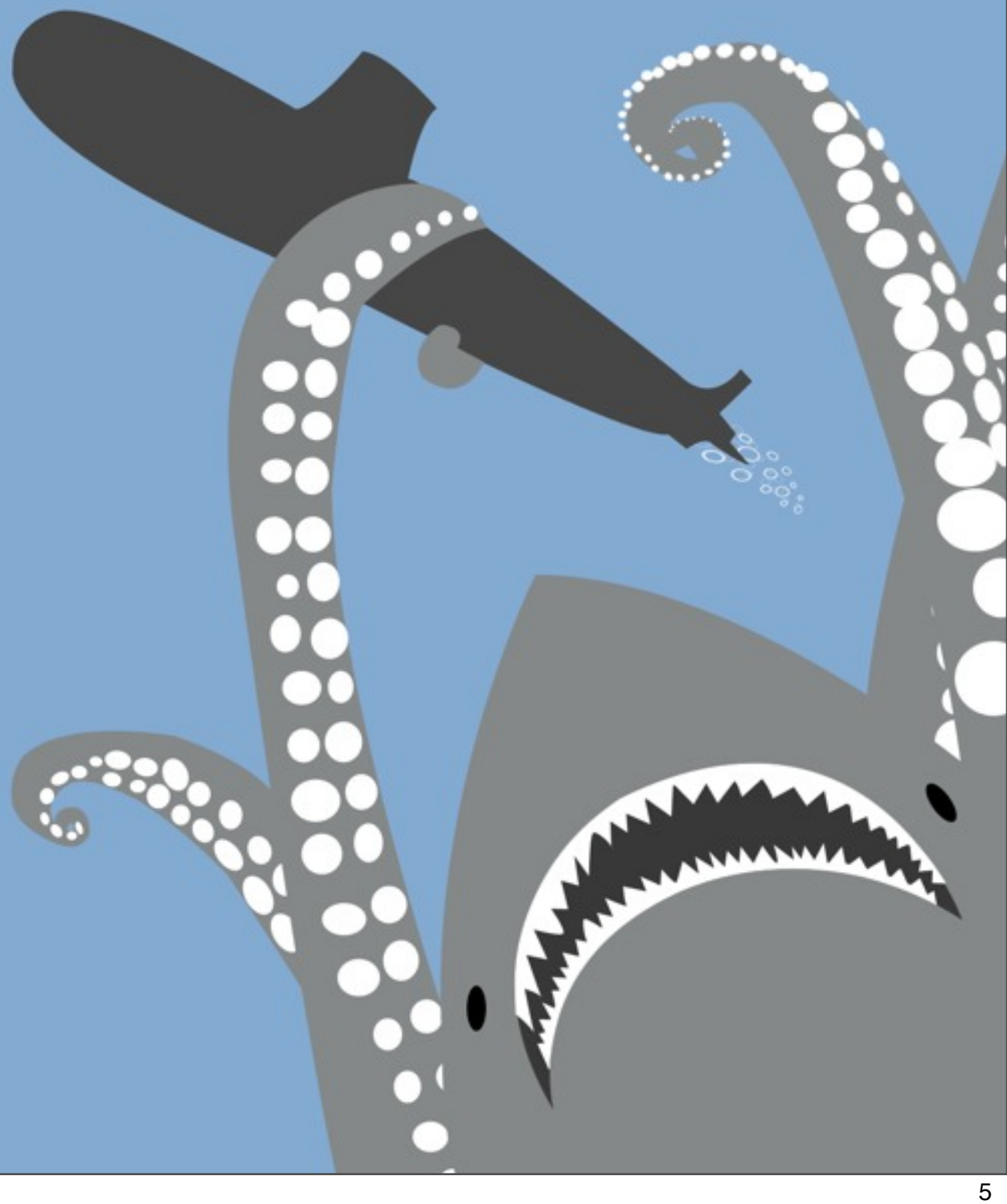
Disclaimer

It works on my machine

Jeez

Not another *DD Process



How do you verify

what you are building is the thing that the customer wants?

56% of all bugs can be traced to errors made during the requirements stage

-- Tom DeMarco

Minimizing

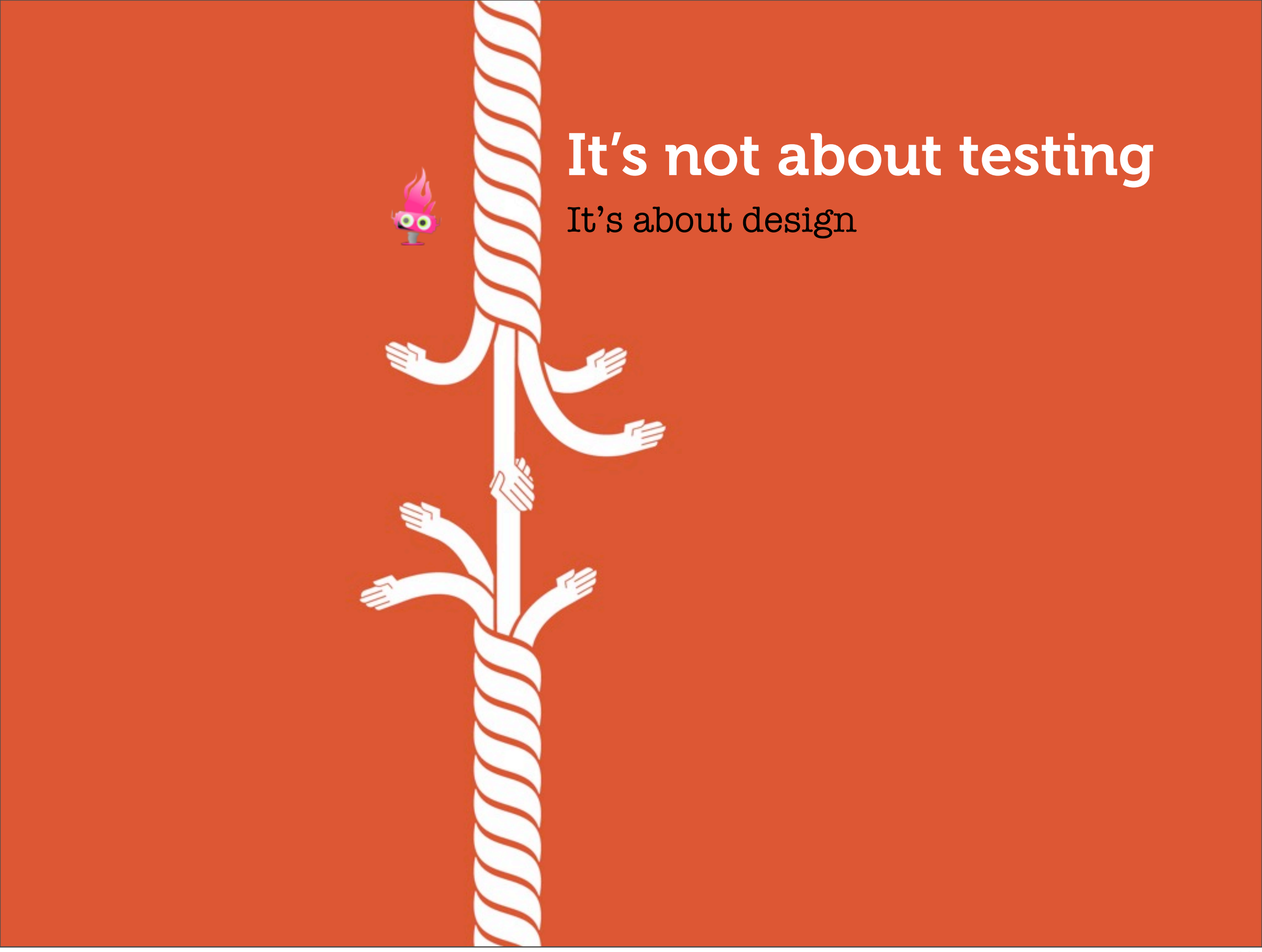
The Feedback Loop

Get Requirements
Analyze
Design
Code
Test

Test Driven Development

Design Code Test

"Test Eventually" / "Test While"



It’s not about testing

It’s about design

Inspection to find defects is a waste

-- Shingeo Shingo

Inspection to prevent defects is essential

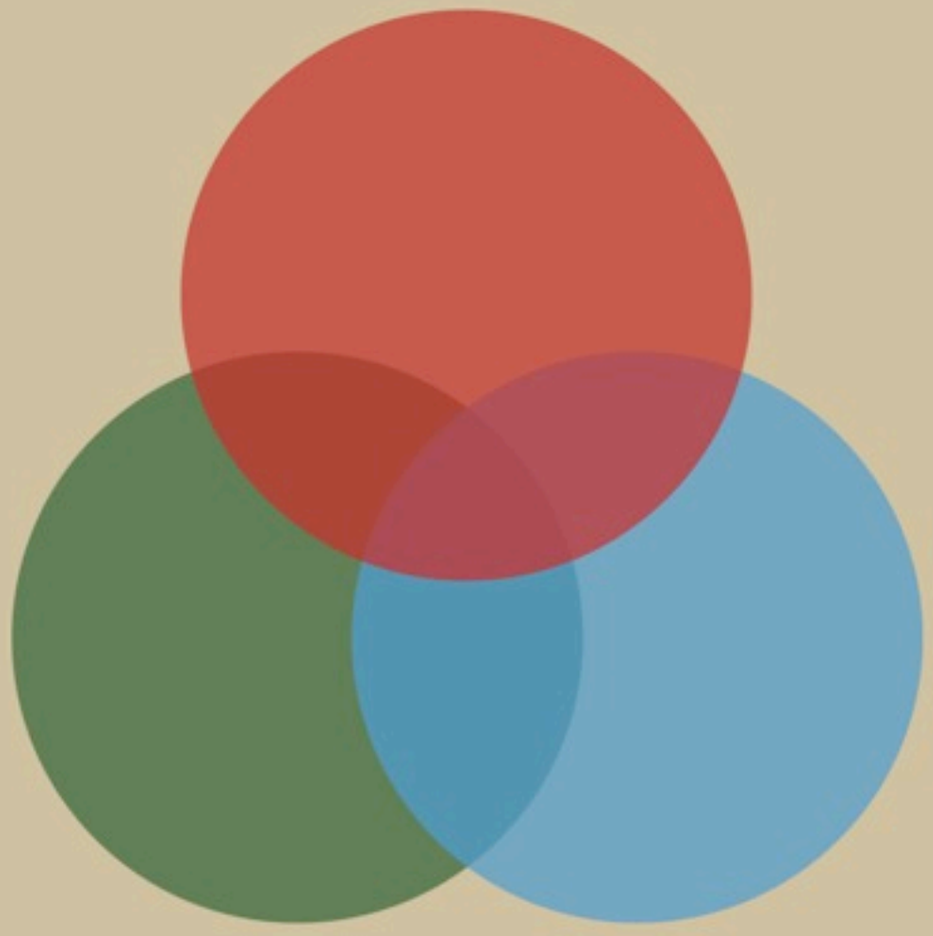
-- Shingeo Shingo

Test Driven Development

Design Test Code

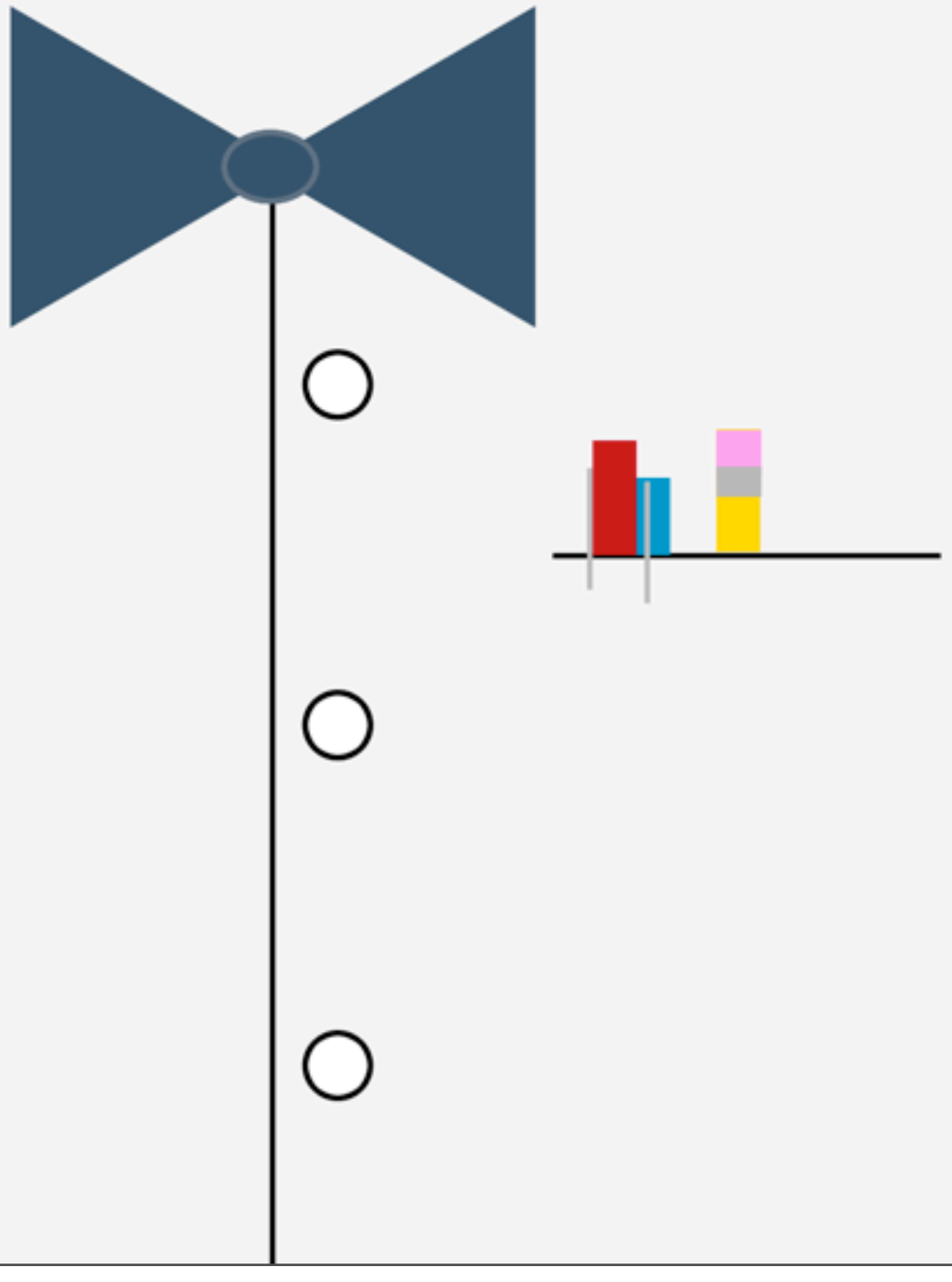
"Test First"

Red > Green > Refactor



Design is a process

not a phase



Behavior Driven Development

Extends

TDD

Common Language

between developers & customers

Gives You

a starting point

Gherkin

The Common Language

Feature: Feature name / identifier

In order to Value proposition

As a Role / Actor

I want to Feature description

Feature: Add an item to my cart
In order to purchase an item
As an online shopper
I want to place something in my cart to show intent that I plan on purchasing it

Scenario:
Given — Acceptance criteria
When — Setup (arrange)
Then — User action / change occurs (act)
Outcome (assert)

Scenario: A user without an account can add items to their cart
Given I do not have an account
And a product exists with name: “Ton-Ton Sleeping bag”
When I browse to the product’s detail page
And I click “Add to Cart”
Then I should be on the cart page
And I should have an item in my cart with name: “Ton-Ton Sleeping bag”

Outside-in

Development

Write Scenarios

Steps are pending

Write steps definitions

Go down to RSpec

Write code example

Make example pass

Go back up to Cucumber

Make steps pass

Refactor!

Mindsets

Not Toolsets

Tools are just tools....using them doesn't automatically mean you're doing BDD

-- The RSpec Book

Tools

for Ruby

RSpec

https://github.com/dchelimsky/rspec

Cucumber

https://github.com/cucumber/cucumber

Friends

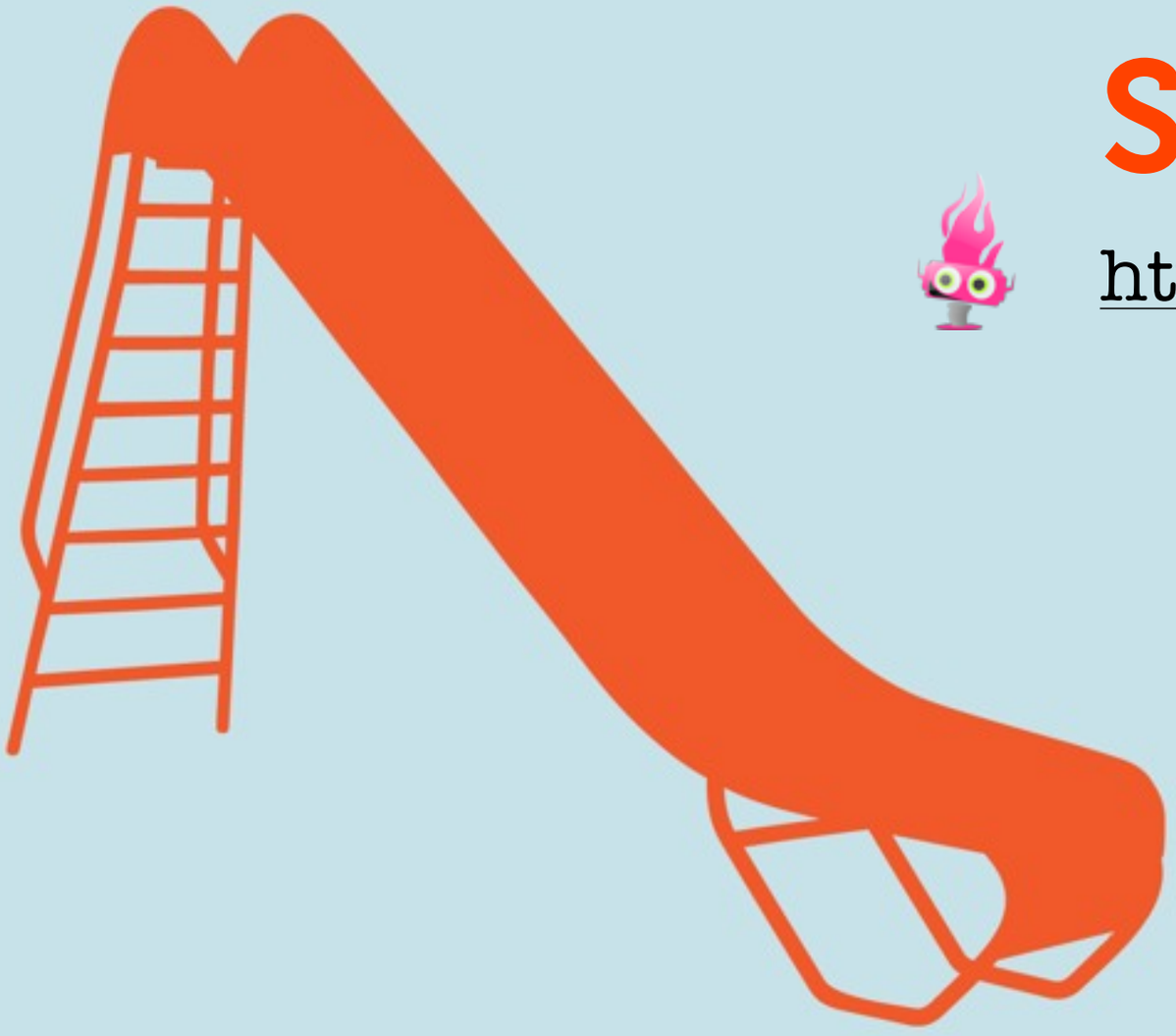
https://github.com/jnicklas/capybara

https://github.com/ianwhite/pickle

I got nothing...

Tools

for .NET

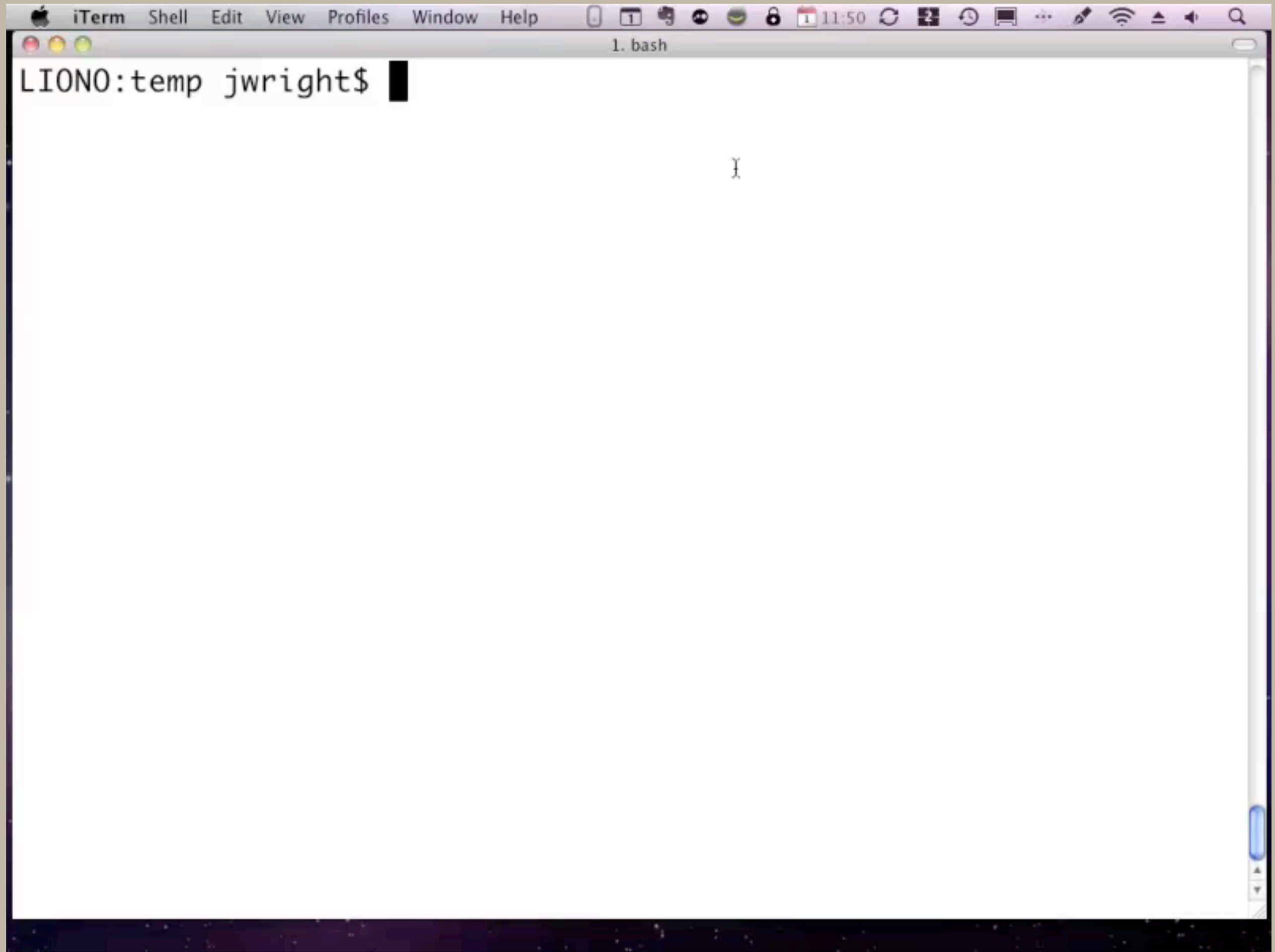


SpecFlow

http://www.specflow.org/

Example

use case

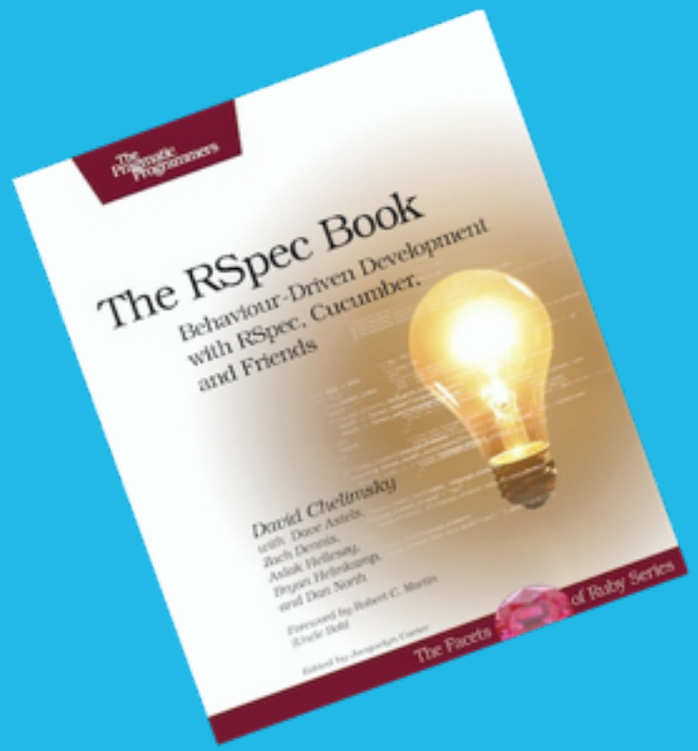

iTerm Shell Edit View Profiles Window Help
11:50
1. bash
LIONO:temp jwright$

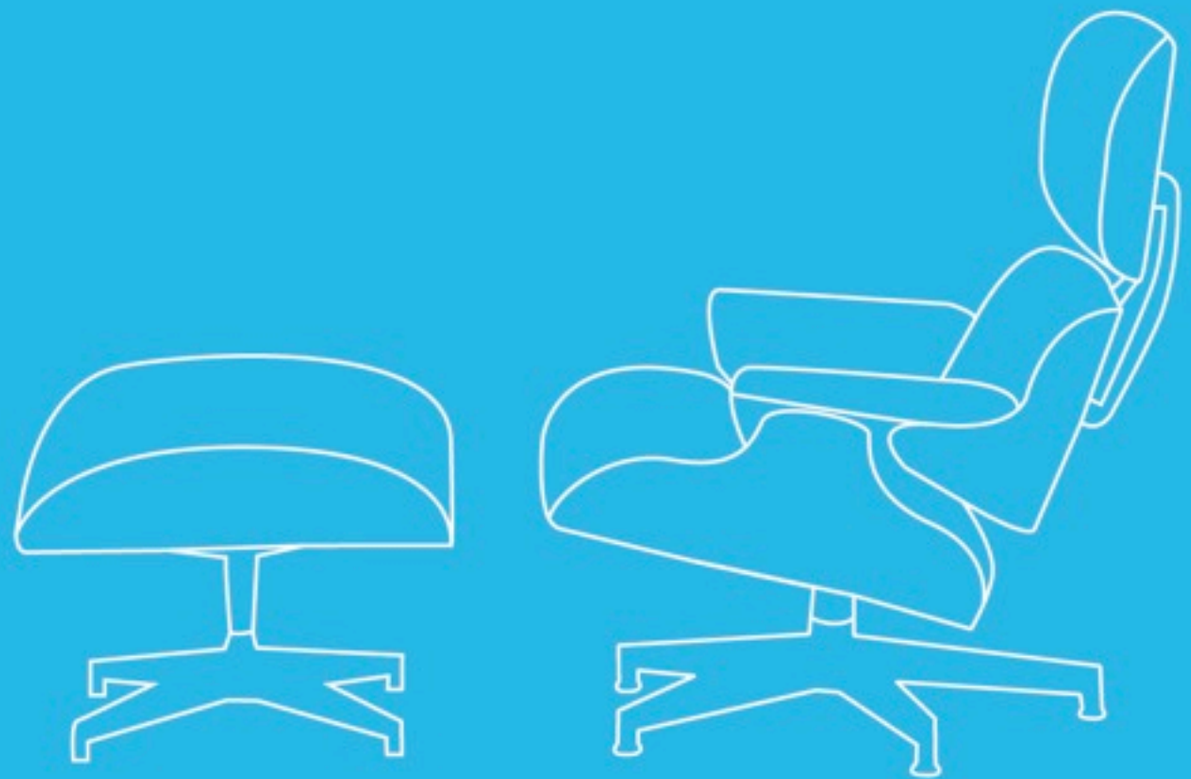
Backgrounds

provided by http://simpledesktops.com

A Must Read

The RSpec Book: BDD with RSpec, Cucumber, & Friends





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