



# TESTING

I FIND YOUR LACK OF TESTS DISTURBING.

# Behaviour-Driven Development

ft. Ruby, Cucumber & RSpec



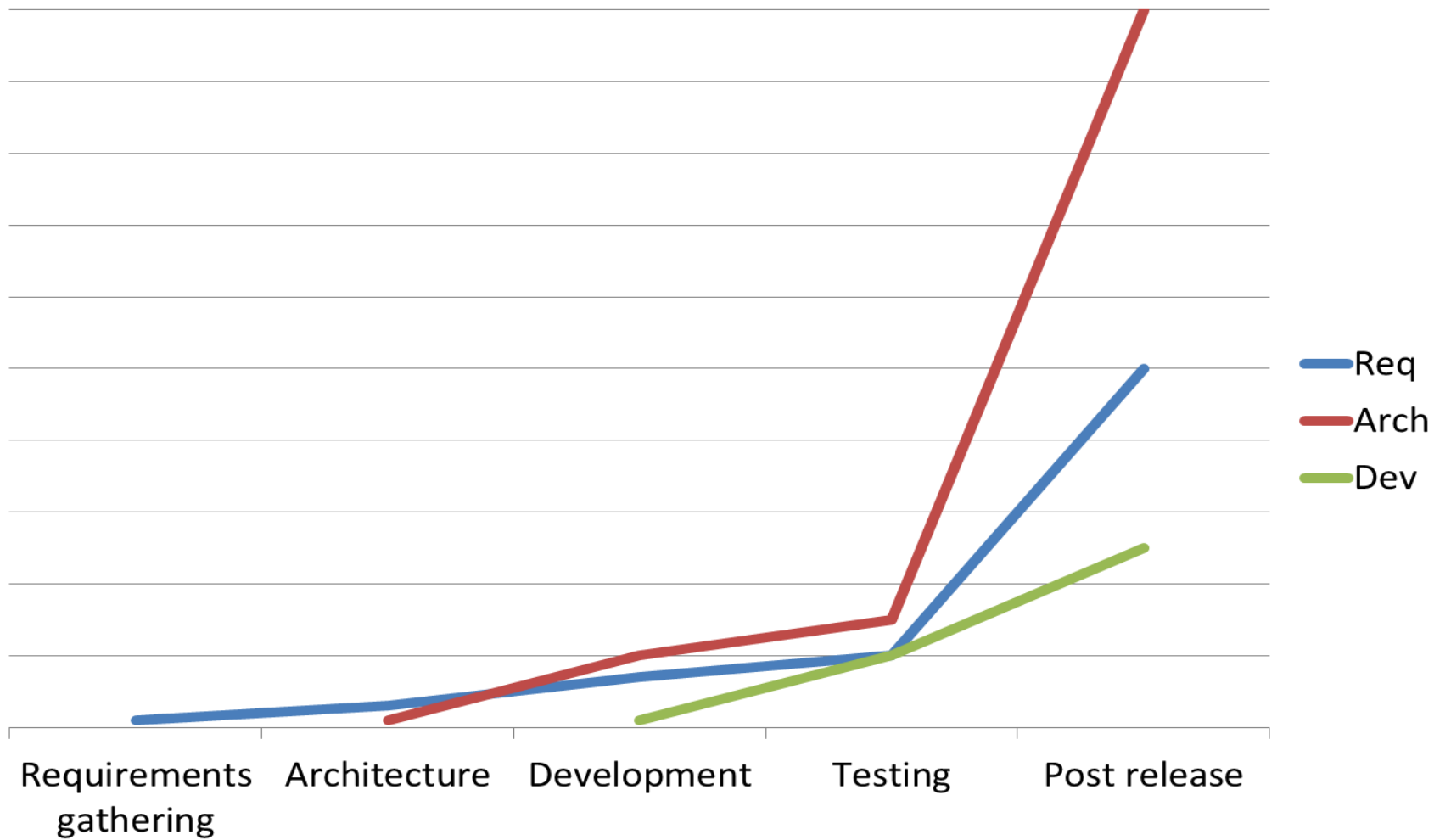
# Видове тестване

Области за проверка	Начини за проверка
Process	Doc Reviews
Functional	Manual
Security	Automated
Performance	Sampling
Stress/Load	Test Driven
Usability	Behavior Driven
Glob/Loc	

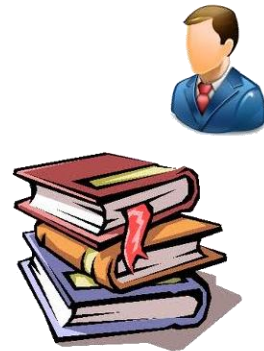
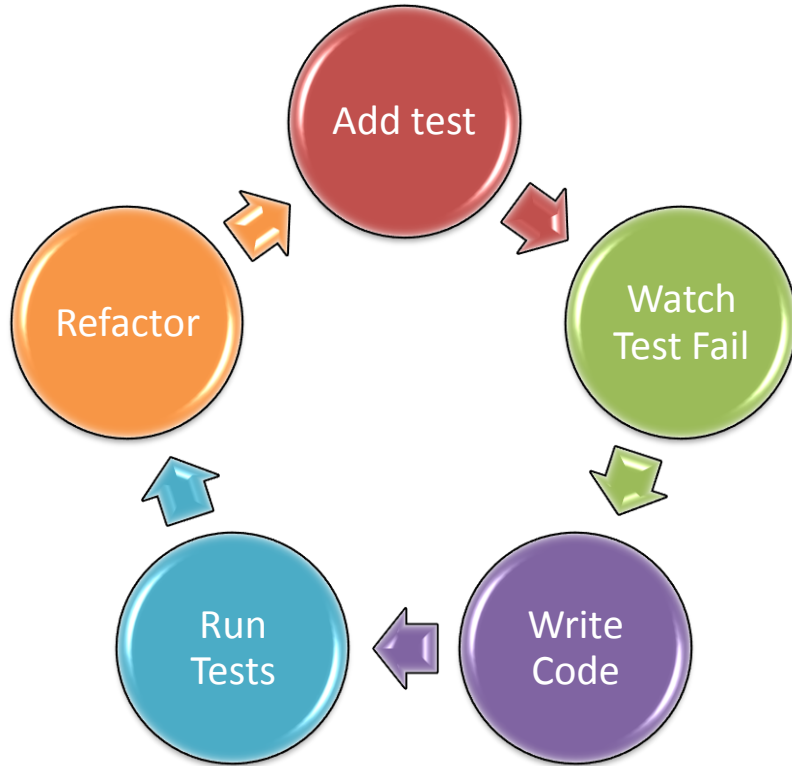
# Тестове

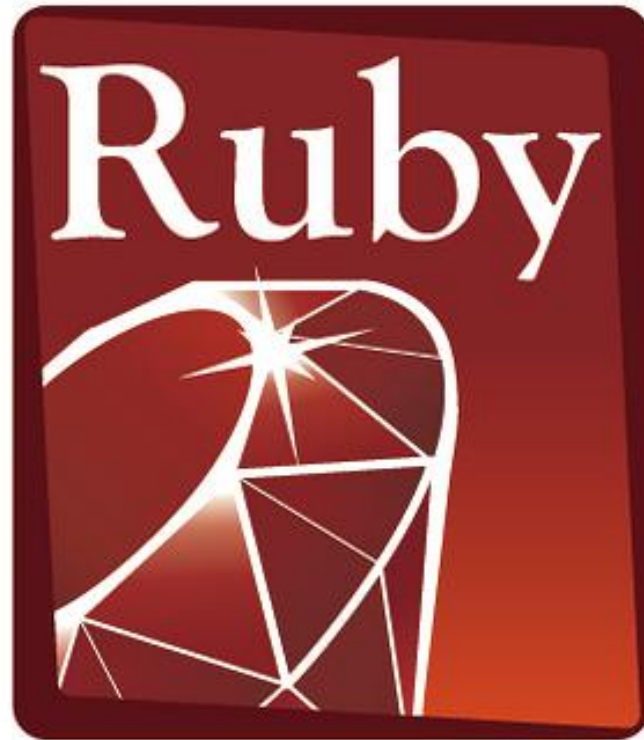
	Ръчни	Автоматизирани
Квалификация	Средна	Висока
Удоволствие		
Мащаб	0	$\infty$
Цена	\$\$\$\$\$	\$\$\$

# Кога да тестваме



# Agile and automation





PROGRAMMING  
Language

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# Test Frameworks 3a Ruby



Cucumber



RSpec

Test::Minitest

Shoulda

Test::Unit

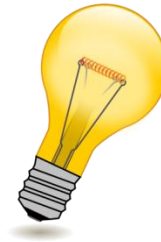
Steak

Riot



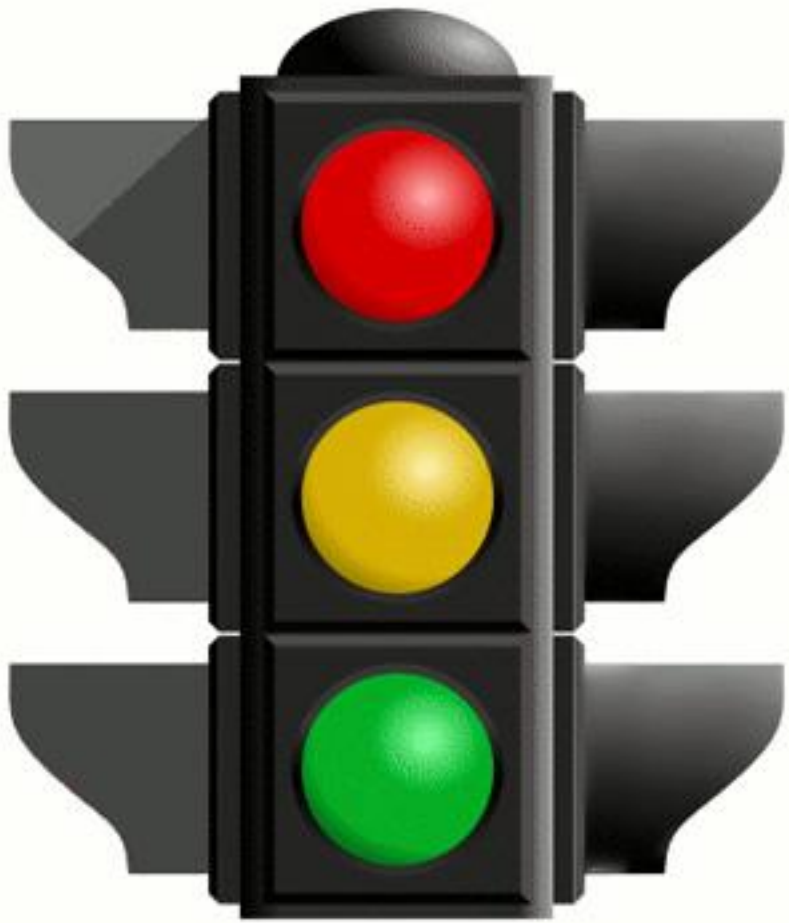


Cucumber



RSpec







# Първи идват feature тестовете



**Feature:** Online shopping

In order to use the full capabilities  
of our online shop

A user

Should be able to make an order

**Scenario:** Buying a beer

**Given** that there are **5** beers on stock

**When** **Vasko** buys **2** beers

**Then** there should be **3** beers left

 features

 online\_shopping.feature

```
$ rake cucumber
```

```
Feature: Online shopping
```

```
  In order to use the full capabilities  
  of our online shop
```

```
  A user
```

```
  Should be able to make an order
```

```
Scenario: Buying a beer # features/online_shopping.feature:6
```

```
  Given that there are 5 beers on stock
```

```
  When Vasko buys 2 beers
```

```
  Then there should be 3 beers left
```

```
1 scenario (1 undefined)
```

```
3 steps (3 undefined)
```

```
0m0.003s
```

```
Given /^that there are (\d+) beers on stock$/ do |count|  
  Beer.available_quantity = count  
end
```

```
When /^(["^"]*) buys (\d+) beers$/ do |user, count|  
  login_user user  
  BeerOrder.new(user, count)  
end
```

```
Then /^there should be (\d+) beers left$/ do |count|  
  Beer.available_quantity.should == count  
end
```

 features

 step\_definitions

 shopping\_steps.rb

Feature: Online shopping

In order to use the full capabilities  
of our online shop

A user

Should be able to make an order

Scenario: Buying a beer # features/online\_shopping.feature:6

Given that there are 5 beers on stock

uninitialized constant Beer (NameError)

./features/step\_definitions/online\_shopping\_steps.rb:5:

in `/^that there are (\d+) beers on stock\$/`

When Vasko buys 2 beers

Then there should be 3 beers left

Failing Scenarios:

cucumber features/online\_shopping.feature:6 # Scenario: Buying a beer

1 scenario (1 failed)

3 steps (1 failed, 2 skipped)

0m0.469s

```
$ rake cucumber
```

```
Feature: Online shopping
```

```
  In order to use the full capabilities  
  of our online shop
```

```
  A user
```

```
  Should be able to make an order
```

```
Scenario: Buying a beer # features/online_shopping.feature:6
```

```
  Given that there are 5 beers on stock
```

```
  When Vasko buys 2 beers
```

```
  Then there should be 3 beers left
```

```
1 scenario (1 passed)
```

```
3 steps (3 passed)
```

```
0m0.003s
```

# Gherkin



```
$ cucumber --i18n help
```

Over 40 spoken languages

Къде са

~~unit tests?~~

specs



# Test

```
class UserTest < ActiveSupport::TestCase
  def setup
    @user = User.register('Vasko', 'Beer')
  end

  test 'inactive by default' do
    assert false, @user.active
  end

  test 'registration date is the current date' do
    assert_equal @user.registration_date, Date.today
  end

  test 'sales phrase is correct' do
    assert_equal @user.sales_phrase, 'Hi, Vasko, wanna have a beer?'
  end
end
```

# Spec

```
describe User do  
  subject { User.register('Vasko', 'Beer') }  
  
  it { should_not be_active }  
  its(:registration_date) { should == Date.today }  
  its(:sales_phrase) { should == 'Hi, Vasko, wanna have a Beer?' }  
end
```

# Cucumber + Rspec – задвижване на реализацията отвън - навътре

Feature



Spec

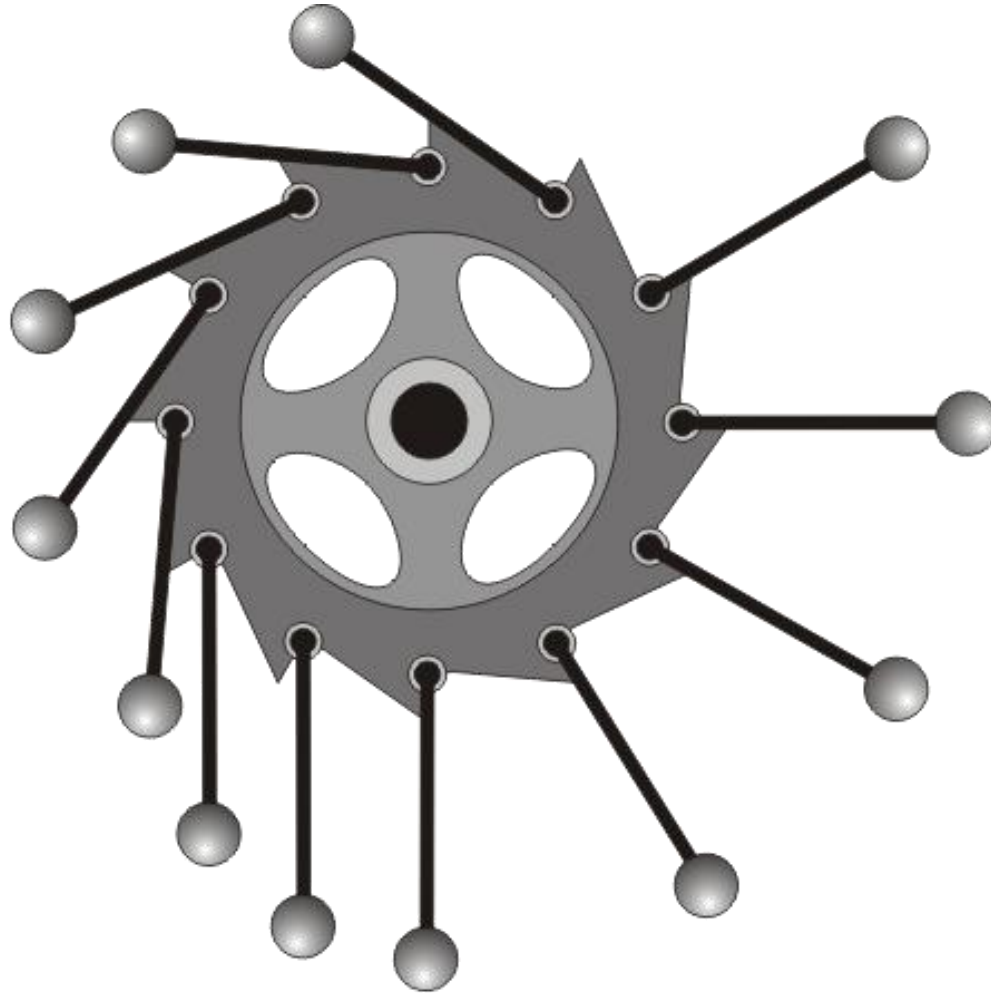


Code

Refactor



# Continuous Integration



# Guard



Bundle update  
Bundle already up-to-date

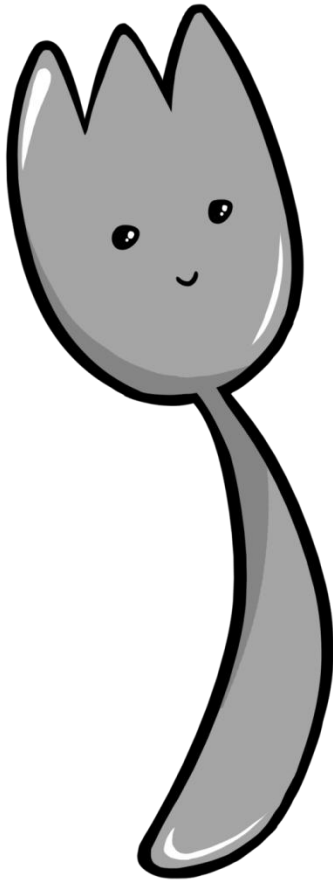



RSpec results  
197 examples, 0 failures (15 pending)  
in 12.274 seconds

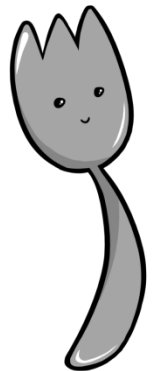
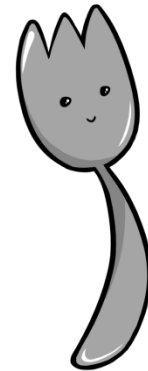
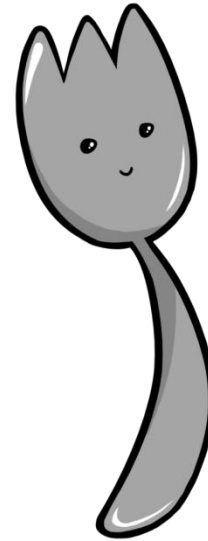
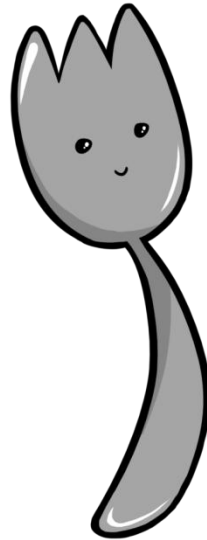


Cucumber Results  
13 passed steps

# Spork



 Spork  
Rspec & Cucumber successfully started



# Jenkins





# Ресурси

- Top ten software bugs:  
<http://themanojblog.blogspot.com/2009/05/blog-wars-episode-v-historys-top-ten.html>
  - Тестване на софтуер:  
[http://en.wikipedia.org/wiki/Software\\_testing](http://en.wikipedia.org/wiki/Software_testing)
  - Допълнителни ресурси:  
<http://www.softwaretestinghelp.com>
  - Cucumber: <http://cukes.info>
  - RSpec: <http://rspec.info>
- 
- 
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**ВЪПРОСИ?**



**БЛАГОДАРИМ ВИ!**

