Ruby Testing Tools
@ButterflyMX

Zoran.Majstorovic@ButterflyMX.com
Senior Ruby Developer
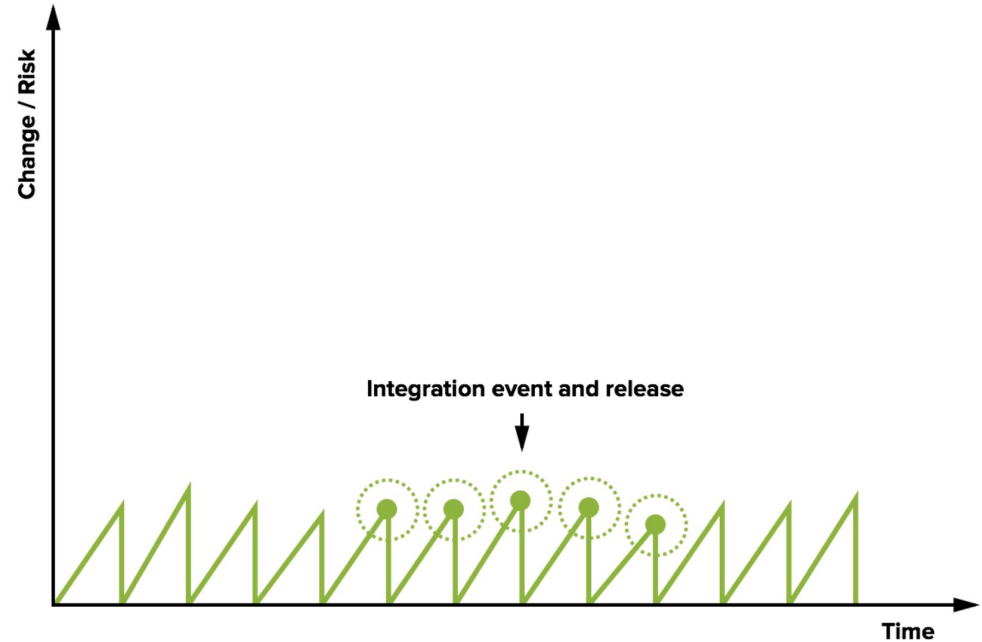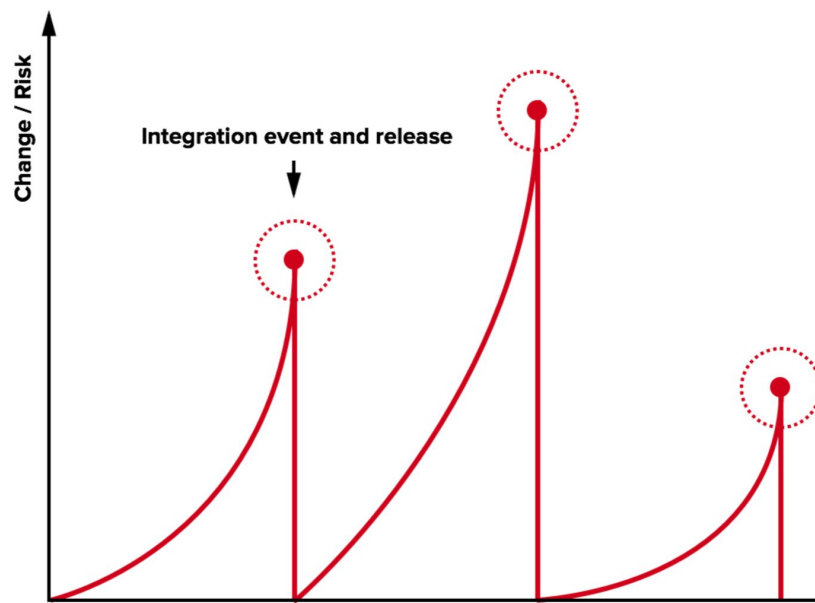
The First Principle of the Agile Manifesto
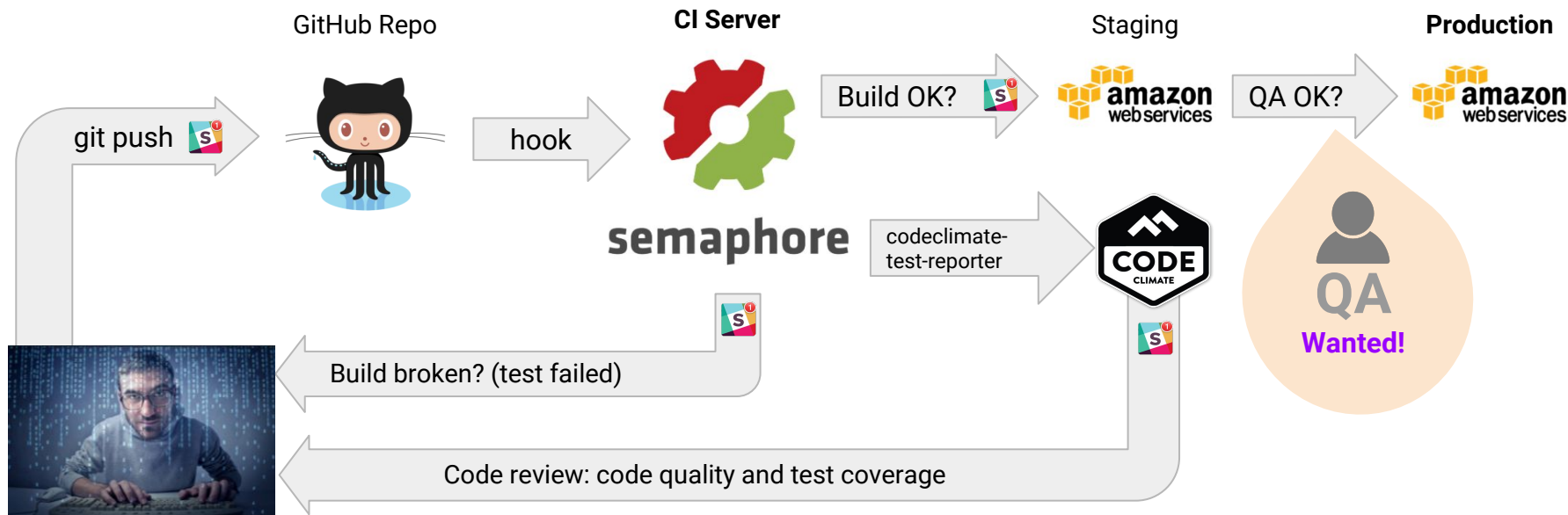
Our highest priority is to satisfy the customer

through early and continuous delivery

of valuable software.

# Traditional *Waterfall*   vs.   Continuous Integration

Continuous Integration @ButterflyMX

Continuous Integration & Deployment

CI Server

semaphore

Servers ⊕				
Production SoftLayer	Switch ImageUploader to S3	`5a01328`	DEPLOYED ᴹ	31 Mar 15:19
Staging	Fix failing spec	`69fc7c9`	DEPLOYED	03 Apr 12:26

Project Timeline

DEPLOYED **Zoran M.** shipped Fix failing spec from **release-master** to **Staging**. — 8 minutes ago

PASSED ✓ **Zoran M.** pushed Fix failing spec to **release-master** and fixed the build. — 18 minutes ago

DEPLOYED **Marko I.** shipped Set PictureUploader to S3 uploads from **release-master** to **Staging**. — an hour ago

FAILED ⚡ **Zoran M.** pushed Add priority: high to GCM JSON to **release-master** and broke the build. — an hour ago

PASSED **Marko I.** pushed Set PictureUploader to S3 uploads to **release-master**. — an hour ago

Continuous Code Quality Check

CODE
CLIMATE

Overview | Progress | Issues | Code | Test Coverage | Trends | Settings
Last build 2 days ago | Refresh
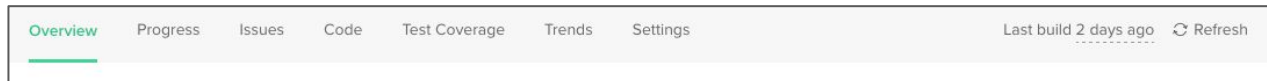
Breakdown

636 FILES

RATINGS

TEST COVERAGE

Overview | Progress | Issues | Code | Test Coverage | Trends | Settings
Last build 2 days ago | Refresh

COVERAGE	NAME ↑	RELEVANT	HITS
95%	app/controllers/api/applicati		
100%	app/controllers/api/v1/applic		
73%	app/controllers/api/v1/buildi		
100%	app/controllers/api/v1/buildi		

Overview | Progress | Issues | Code | Test Coverage | Trends | Settings
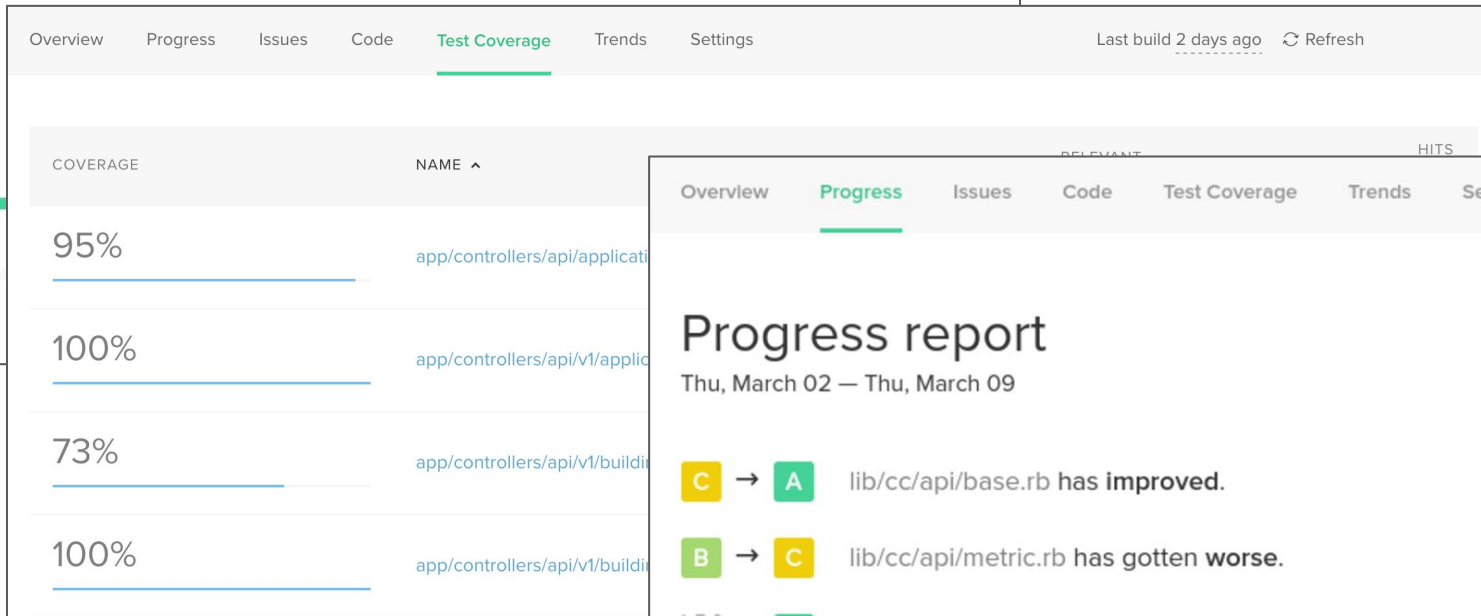
Progress report
Thu, March 02 — Thu, March 09

C → A lib/cc/api/base.rb has **improved**.

B → C lib/cc/api/metric.rb has gotten **worse**.

→ A app/models/flux_capacitor.rb was **added**.

F → app/models/heart_of_gold.rb was **removed**.

RSpec

- **rspec-core:** the spec runner, a command line program

- **rspec-expectations:** express expected outcomes of a code example

- **rspec-mocks:** test double framework
  (fake objects to to control the environment in which specs run)

- **rspec-rails:** support for testing Ruby on Rails applications

RSpec Simple Example (1)

```ruby
# in spec/calculator_spec.rb
RSpec.describe Calculator do
  describe '#add' do
    it 'returns the sum of its arguments' do
      expect(Calculator.new.add(1, 2)).to eq(3)
    end
  end
end
```

RSpec Nested Structures *(describe/context)*

```ruby
RSpec.describe Order do
  context "with no items" do
    it "behaves one way" do
      # ...
    end
  end

  context "with one item" do
    it "behaves another way" do
      # ...
    end
  end
end
```

Capybara with RSpec


```ruby
describe "the signin process", :type => :feature do
  before :each do
    User.make(email: 'user@example.com', password: 'password')
  end

  it "signs me in" do
    visit '/sessions/new'
    within("#session") do
      fill_in 'Email', with: 'user@example.com'
      fill_in 'Password', with: 'password'
    end
    click_button 'Sign in'
    expect(page).to have_content 'Success'
  end
end
```

Capybara Acceptance Tests *(features)*


```ruby
feature "Signing in" do
  background do
    User.make(email: 'user@example.com', password: 'caplin')
  end

  scenario "Signing in with correct credentials" do
    visit '/sessions/new'
    within("#session") do
      fill_in 'Email', with: 'user@example.com'
      fill_in 'Password', with: 'caplin'
    end
    click_button 'Sign in'
    expect(page).to have_content 'Success'
  end
end
```
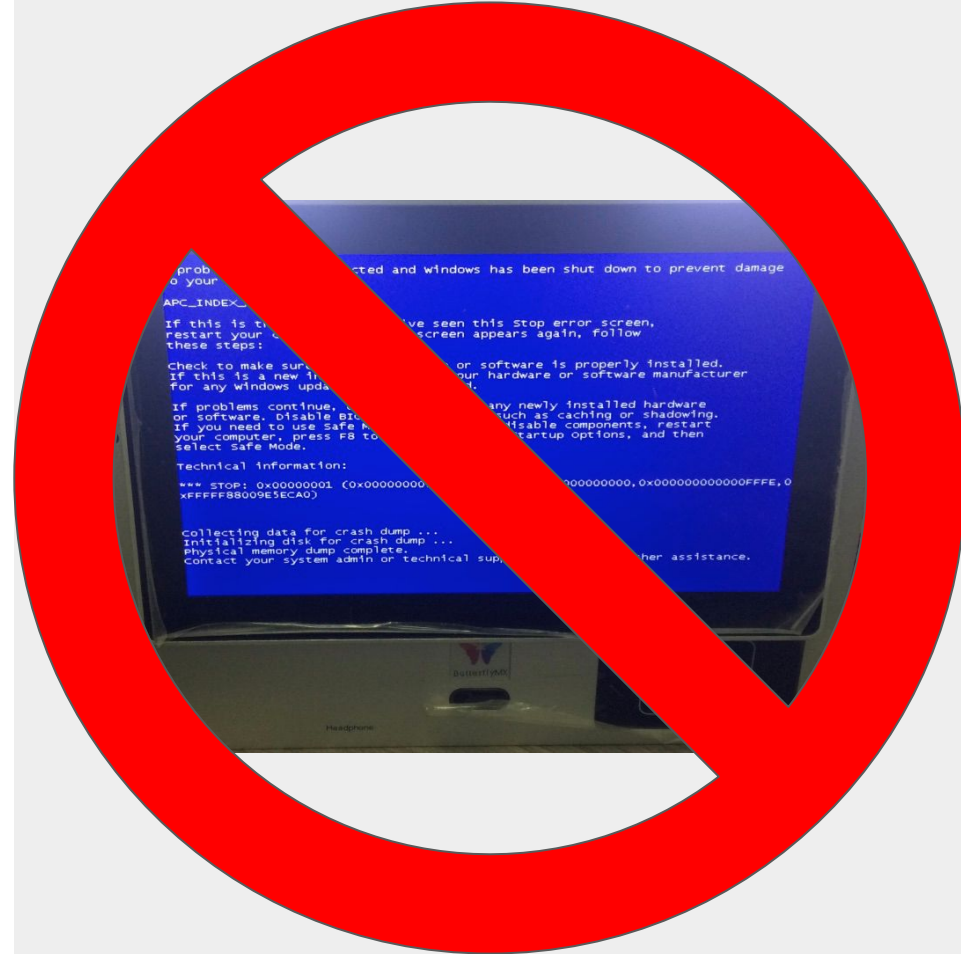
source: https://github.com/teamcapybara/capybara#using-capybara-with-rspec

TEST WITH US

QA Engineer

https://www.moj-posao.net/
Posao/321218/QA-engineer-mz

info@6lix.com

TEST WITH US

QA Engineer

https://www.moj-posao.net/
Posao/321218/QA-engineer-mz

info@6lix.com

Responsibilities

- Test web, mobile and desktop (windows)

- Design test protocols

- Liaison with developers

- Automate tests

Thank You