# WATIR

Testing Web Applications

### Overview

WATIR - Web Application Testing in Ruby

- Provides a Ruby interface for interacting with a browser
  - Supports common browsers
- Tests are scripted, not recorded

# **Basic Example**

```
require 'watir-webdriver'

browser = Watir::Browser.new :firefox

browser.goto 'bit.ly/watir-webdriver-demo'
browser.text_field(:id => 'entry_1000000').set 'your name'
browser.select_list(:id => 'entry_1000001').select 'Ruby'
browser.button(:name => 'submit').click
sleep 2
puts browser.url
puts browser.text
expect(browser.text).to include 'Thank you'
browser.close
```

#### **More Basics**

- Exposes all HTML elements and element collections
- Allows control of the browser (e.g. forward, backward, url, title)

## Integrating with Cucumber

```
Feature: Platform Registration
     Scenario: Basic Registration
       Given I visit the platform registration system
       When I submit my information
       Then I get a big thanks
Before do | scenario |
     @browser = Watir::Browser.new 'safari'
   end
   After do | scenario |
     @browser.close
   end
Given (/^I) visit the platform registration system (/^I) do
     @browser.goto 'bit.ly/watir-webdriver-demo'
   end
   When (/^I submit my information$/) do
     @browser.text field(:id => 'entry 1000000').set 'your name'
     @browser.select list(:id => 'entry 1000001').select 'Ruby'
     @browser.button(:name => 'submit').click
     sleep 2
   end
   Then(/^I get a big thanks$/) do
    expect (@browser.text) .to include 'Thank you'
   end
```

## **Problems with WATIR**

- Interacts with browser, we usually want to interact with a page
- Steps have knowledge of the implementation of a page
- May need to change many steps if an element id changes

# Page Objects

- Page implementation abstracted from its presentation
- 1 class per page
- Only change the page class if the page implementation changes, not every test

# Page Objects

```
class Survey
    include PageObject
    page url "bit.ly/watir-webdriver-demo"
    text field(:name, :id => 'entry 1000000')
    select(:language, :id => 'entry 1000001')
    button(:submit, :name => 'submit')
  end
class SurveyResult
    include PageObject
    div(:response, :xpath => '//div[@class="ss-custom-resp"]')
  end
```

# Page Objects

```
include PageObject::PageFactory
  Given (/^I visit the platform registration system$/) do
    visit page Survey
  end
  When (/^I submit my information$/) do
    on page Survey do |page|
      page.name = 'your name'
      page.language = 'Ruby'
     page.submit
    end
    sleep 2
  end
  Then (/^I get a big thanks$/) do
    on page SurveyResult do |page|
    expect (page.response) .to include 'Thank you'
    end
  end
```