Watir

Automated testing that doesn't hurt

About Me

- Željko Filipin

- functional testing of web applications since 2004

- blog: ZeljkoFilipin.com

- podcast: WatirPodcast.com

- twitter: zeljkofilipin

- member of Watir core team

Watir: about

- pronounced water

- stands for "Web Application Testing in Ruby"

- open-source library for automating web browsers

- can test web applications regardless platform it was implemented in (Ruby, .NET, Java, PHP...)
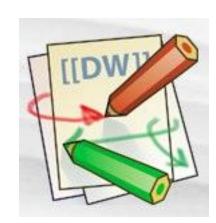
Watir: languages

- Ruby - Watir

- .NET – WatiN

- Java - Watij

Watir: browsers

- Internet Explorer - Watir
  - Windows

- Firefox - FireWatir
  - Windows, Linux, Mac

- Safari - SafariWatir
  - Mac

- Chrome - ChromeWatir
  - Windows

- Opera - OpWatir
  - not released yet

- no browser - Celerity

Watir: test runners

- homebrew

- Test::Unit (1.2.3, 2.0)

RSpec

- RSpec

- Cucumber

Watir: frameworks

- [watirloo](#) - [Marek J](#)

- [WatirCraft](#) - [Bret Pettichord](#) (Watir lead developer)

- [taza](#) - [Adam Anderson](#)

[taza](): overview

- opinionated browser-based test framework
- [sites]()
  - [pages]()
    - [elements]()
    - [filters]()
    - [partials]()
  - flows

watir: code

```
irb
require "watir"
browser = Watir::IE.new
browser.goto "http://www.google.com/"
browser.url == "http://www.google.com/"
browser.link(:text, "Images").click
browser.text.include? "The most comprehensive image search
on the web"
#=> true
browser.text_field(:name, "q").set "Watir"
browser.button(:value, "Search Images").click
browser.text_field(:name, "q").value == "Watir"
#=> true
browser.select_list(:name, "imagesize").select "Large
images"
browser.image(:src, /flickr/).exists?
#=> true
```

watir: test.rb

```ruby
require "watir"
browser = Watir::IE.new
browser.goto "http://www.google.com/"
puts "url ok" if browser.url == "http://www.google.com/"
browser.link(:text, "Images").click
puts "text ok" if browser.text.include? "The most
comprehensive image search on the web"
browser.text field(:name, "q").set "Watir"
browser.button(:value, "Search Images").click
puts "text field ok" if browser.text_field(:name,
"q").value == "Watir"
browser.select_list(:name, "imagesize").select "Large
images"
puts "image ok" if browser.image(:src, /flickr/).exists?
```

taza: code

```
>taza google
  create  lib
  create  config

  ...
  create    script/destroy
  create    script/destroy.cmd
>cd google
>ruby script/generate site google
  create  lib/sites/google.rb
  create  lib/sites/google

  ...
  create  spec/functional/google
  create  config/google.yml
>ruby script/generate page home google
  create  lib/sites/google/pages/home_page.rb
  create  spec/functional/google/home_page_spec.rb
>rake spec:functional:google
```

taza: config.yml

```
>taza google


config/config.yml


---
:browser: :ie
:driver: :watir
```

taza: home_page.rb

```
>ruby script/generate page home google

lib/sites/google/pages/home_page.rb

require 'rubygems'
require 'taza/page'


module Google
  class HomePage < ::Taza::Page
    element(:search_field) { browser.text_field(:name, 'q') }
    element(:search_button) { browser.button(:name, "btnG") }
  end
end
```

taza: home_page_spec.rb

```
>ruby script/generate page home google
spec/functional/google/home_page_spec.rb

require 'spec/spec_helper'
require 'google'

describe "HomePage" do
  it "should perform search on 'spletne urice' and get page with
'spletne urice' back" do
    Google.new do |google|
      google.home_page do |home_page|
        home_page.search_field.set "spletne urice"
        home_page.search_button.click
      end
      google.browser.text.should include("spletne urice")
    end
  end
end
```

taza: run

>rake spec:functional:google

google\artifacts