Javascript / Browser Integration Testing with Ruby

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The Problem

Normal RSpec Integration Test

```
✖ facets_spec.rb
 1   require 'spec_helper'
 2
 3   describe "Facets", :type => :feature do
 4     it "should exist on the home page and lead to a search result" do
 5       visit '/'
 6       page.should have_content "Japanese drama"
 7       click_link "Japanese drama"
 8       page.should have_content "1 - 2 of 2"
 9     end
10   end
```

Let's See It

Mistakes Happen

```
$("h4", $(this)).click(function(){
  $(this).toggleClass('twiddle-open');
  list.toggle();
});
```

Demo

~~The~~ Some Solution(s)

Watir

- WATIR == WEB APPLICATION TESTING IN RUBY
- PRONOUNCED **WATER**
- BUILT ON WATIR-WEBDRIVER
- EASY TO TEST EXTERNAL SITES

Capybara

- Yes, like the rodent
- Preferred RSpec/Cucumber driver
- Has the ability to test responsive design
- Webkit integration available (true headless)

A Tale of Two Syntaxes

CAPYBARA

WATIR

```ruby
describe 'Facets', :js => true do
  it "should exist on the home page and lead to a search result" do
    visit '/'
    page.should have_content "Topic"
    find("h5", :text => "Topic").click
    page.should have_content "Japanese drama"
    click_link "Japanese drama"
    page.should have_content "1 - 2 of 2"
  end
end
```

```ruby
describe "Facets", :javascript => true do
  before :all do
    @browser = Watir::Browser.new
  end
  after :all do
    @browser.close if @browser
  end
  it "should exist on the home page and lead to a search result" do
    @browser.goto(root_path)
    @browser.h5(:text, "Topic").should exist
    @browser.h5(:text, "Topic").click

    @browser.link(:text, "Japanese drama").should exist
    @browser.link(:text, "Japanese drama").click
    @browser.body(:class, "blacklight-catalog-index").should exist
  end
end
```

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Demo

Gotchas

Other Potential Uses

Come Talk To Me!

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Links

- http://watir.com/
- https://github.com/jnicklas/capybara
- https://github.com/thoughtbot/capybara-webkit
- https://github.com/jkeck/c4l13_javascript_testing

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