

Tech Talk

Selenium - on Rails

by Tino Gomes

<http://tinogomes.wordpress.com> (In portuguese)

What is Selenium?

<http://selenium.openqa.org/>

- ➊ is a suite of tools specifically for testing web applications.

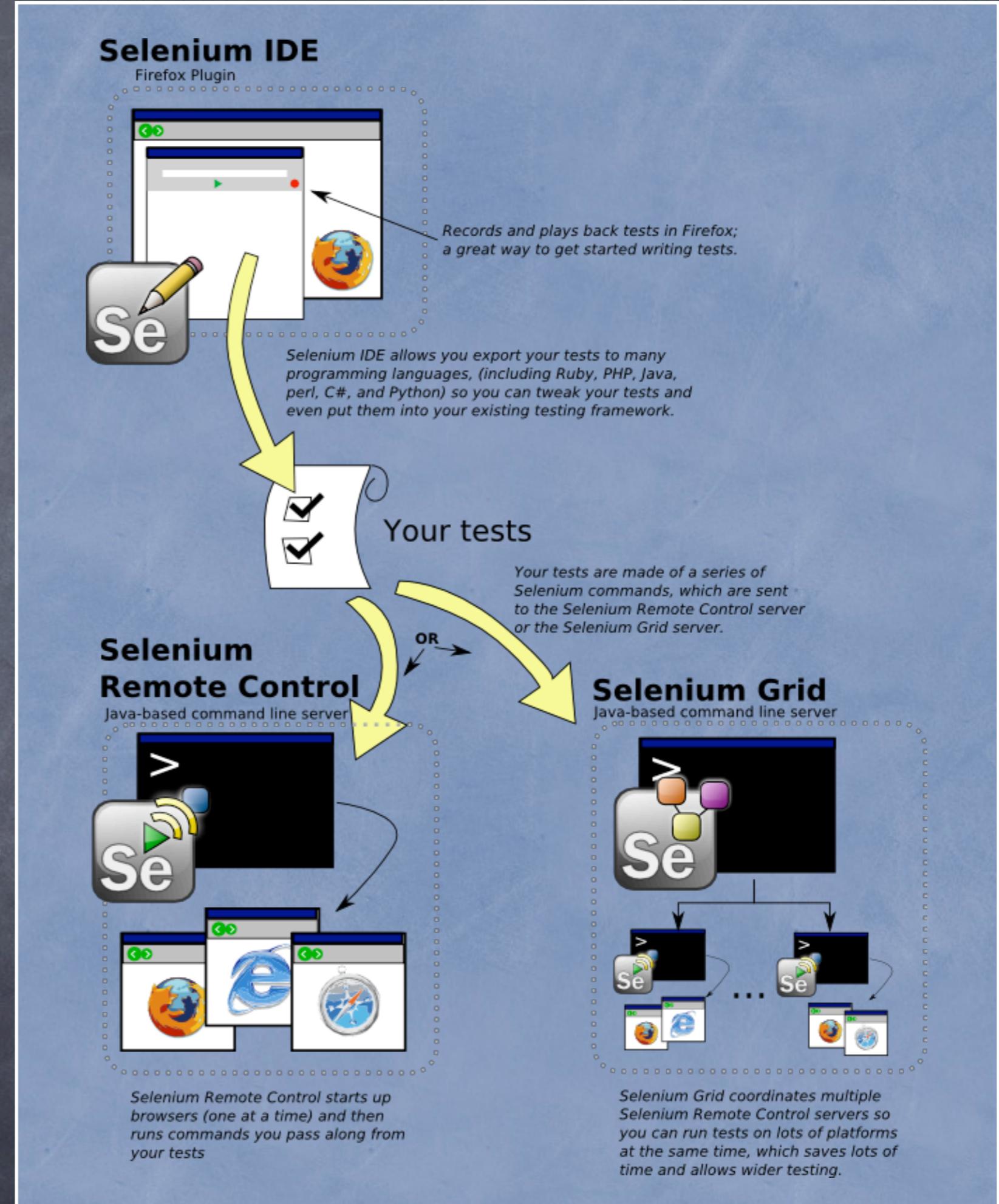
Tools for Selenium

<http://selenium.openqa.org/projects/>

- ⦿ Selenium Remote Control - is a client/server system that allows you to control web browsers locally or on other computers, using almost any programming language and testing framework.
- ⦿ Selenium IDE - is a Firefox add-ons that makes it easy to record and playback tests in Firefox 2+.
- ⦿ Selenium Grid - takes Selenium Remote Control to another level by running tests on many servers at the same time, cutting down on the time it takes to test multiple browsers or operating systems.
- ⦿ Selenium Core - is the original Javascript-based testing system. It's now used primarily as a component of Selenium Remote Control, but it can also be used as a pure Javascript/HTML testing system. (Let's see a little...)
- ⦿ Selenium on Rails - provides an easy way to test Rails application with Selenium Core. Suite files are created on the fly for each directory and the Selenium Core files don't have to pollute /public.

How Selenium works?

<http://selenium.openqa.org/about/how.html>



Railscasts

with Ryan Bates

Railscasts – by Ryan Bates
Episode 116

Formats

<http://selenium-on-rails.openqa.org/>

- ⦿ **Selenese, .sel** (If the RedCloth gem is available the Selenese test cases can use it for better markup)
 - ⦿ <http://selenium-core.openqa.org/reference.html>
- ⦿ **RSelenese, .rsel**
 - ⦿ <http://release.openqa.org/selenium-remote-control/0.9.2/doc/ruby/>
- ⦿ **HTML/RHTML**
- ⦿ **Partials**

Let's play now!

- ⦿ rails blog -d mysql
- ⦿ cd blog
- ⦿ mate .
- ⦿ rake db:create:all
- ⦿ ruby script/generate scaffold post title:string body:text published:boolean
- ⦿ rake db:migrate
- ⦿ rake db:test:clone
- ⦿ ruby script/plugin install git://github.com/ryanb/selenium-on-rails.git
- ⦿ ruby script/server -e test
- ⦿ <http://localhost:3000/selenium>

Selenese Mode

ruby script/generate selenium posts/new.sel

```
|open|/selenium/setup?fixtures=all| |
|open|/posts/new|
|assertElementPresent|//h1[text()='New post']||
|typeKeys|post_title|New post for example|
|type|post_body|The book is on the table!|
|check|post_published||
|clickAndWait|post_submit||
|assertElementPresent|//p[@style='color: green;' and text() = 'Post was successfully created.']||
```

RSelenese Mode - A Partial ruby script/generate selenium posts/_index_sctructure.rsel

```
open '/posts'  
assert_element_present '//h1[text()="Listing posts"]'  
assert_element_present 'link>New post'
```

RSelenese Mode

ruby script/generate selenium posts/index_empty.rsel

```
#delete from posts
setup :clear_tables => :posts

#use partial
include_partial 'posts/index_structure'

#will fail, change for verify_text_present to see the difference between this and assert...
assert_text_present 'No posts'

assert_element_not_present 'link>Show'
assert_element_not_present 'link>Edit'
assert_element_not_present 'link=Destroy'
```

RSelenese Mode

ruby script/generate selenium posts/index_full.rsel

```
setup :fixtures => :all

include_partial 'posts/index_structure'

assert_text_present 'The Draft'
assert_text_present 'Lorem Ipsum'

assert_element_present 'link>Show'
assert_element_present 'link>Edit'
assert_element_present 'link=Destroy'
```

RHTML Mode

ruby script/generate selenium posts/destroy.rhtml

```
<table>
  <tr><th colspan="3"><%= @page_title %></th></tr>
  <tr><td>open</td><td>/selenium/setup?fixtures=all</td><td>&nbsp;</td></tr>
  <tr><td>open</td><td>/posts</td><td></td></tr>
  <tr><td>assertElementPresent</td><td>//h1[text()='Listing posts']</td><td></td></tr>
  <tr><td>assertElementPresent</td><td>link=New post</td><td></td></tr>
  <tr><td>assertTextPresent</td><td>The Draft</td><td></td></tr>
  <tr><td>click</td><td>link=Destroy</td><td></td></tr>
  <tr><td>assertConfirmation</td><td>Are you sure?</td><td></td></tr>
  <tr><td>pause</td><td>500</td><td></td></tr>
  <tr><td>assertTextNotPresent</td><td>The Draft</td><td></td></tr>
</table>
```

Review

- ⦿ <http://github.com/ryanb/selenium-on-rails/tree> - Plugin Selenium on Rails for Rails 2.1
- ⦿ <http://selenium.openqa.org/> - All about Selenium
- ⦿ <http://railscasts.com/episodes/116-selenium> - Ryan Bates Screencast
- ⦿ <http://selenium-core.openqa.org/reference.html> - Reference for Selenium Core
- ⦿ <http://release.openqa.org/selenium-remote-control/0.9.2/doc/ruby/> - RDoc for Ruby Selenium Remote Control

Thank you! :D