Selenium

A TUTORIAL

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Selenium Forms

- Selenium Core
- Selenium RC
- Selenium IDE
- Selenium on Rails

Selenium Core

- A acceptance testing tool for web applications
- Tests run directly in the browser
- Selenium is implemented entirely with browser technology
 - JavaScript
 - DHTML
 - Frames
- Works by looking at the DOM
- Selenium deploys its BrowserBot alongside your application
- Selenium uses JavaScript and IFrames to embed the BrowserBot in your browser
- Works with virtually any JavaScript-enabled browser
- The engine is tweaked to support a wide range of browsers on Windows, Mac OS X and Linux

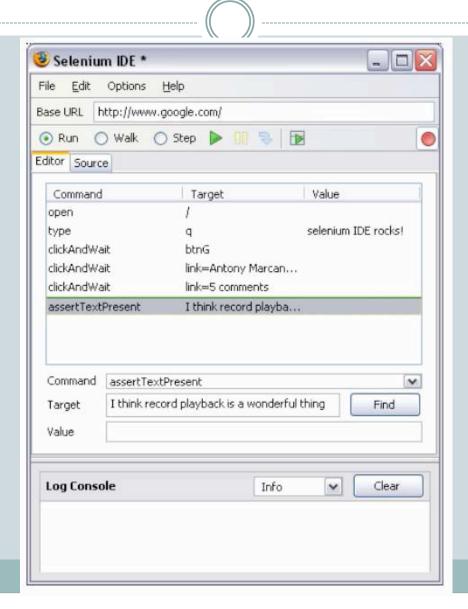
Selenium RC

- Where the browser is under the control of another process
- Drivers exist for Java, .NET, Python, and Ruby
- The Browser Bot takes instructions from the adjacent process
 - However, JavaScript cannot open sockets (Crosssite scripting issues)
 - The Selenese driver continuously requests pages from the driving process, delivered as plain text
 - This is reply/request (rather than request/reply)

Selenium IDE

- FireFox extension
- Includes the entire Selenium Core
- Easy record and playback
- Intelligent field selection will use IDs, names, or XPath as needed
- Auto complete for all common
- Selenium commands (Selenese)
- Walk through tests
- Debug and set breakpoints
- Save tests as HTML, Ruby scripts, or any other format
- Employ User extensions (.js files)
- Option to automatically assert the title of every page

Selenium IDE Test



Locator Tools

Xpather:

https://addons.mozilla.org/extensions/ moreinfo.php?id=1192

• XPath Checker:

https://addons.mozilla.org/extensions/ moreinfo.php?id=1095

FireBug

https://addons.mozilla.org/en-US/firefox/addon/ 1843

DOM Inspector

https://addons.mozilla.org/en-US/firefox/addon/6622/

How To Use Selenium IDE

- Environment Setup
 - Site Creation and Data Seeding
- Acceptance Testing
 - **▼** Positive Path Functional Tests
- Regression Testing
 - Incorporating bug fixes and code changes into the Acceptance Tests on an ongoing basis

Language Options

- HTML
- Java
- C#
- Perl
- PHP
- Ruby

