

Selenium Introduction

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Agenda

- Introduction to Selenium (12 Min)
 - Origin
 - Selenium and its Forms
 - Selenium Core
 - Selenium RC
 - Deployment
 - Object locators
 - Features
 - Add Inn's
 - Selenium IDE
 - Locator tools.
- Demo (10 Min)
- Build Integration (3 Min)
- Q & A (5 Min)

Origins

- Selenium core Originated on a ThoughtWorks Time and expense project

ThoughtWorks

home members news time **expenses** search

you are here: home # time # time_add_form

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Add Time Report

week ending date (e.g. 19 Jun 2006)

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Do you have expenses for this week? Select an option v

Also submit as final

[Return to Time Home](#)

Selenium and its Forms

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

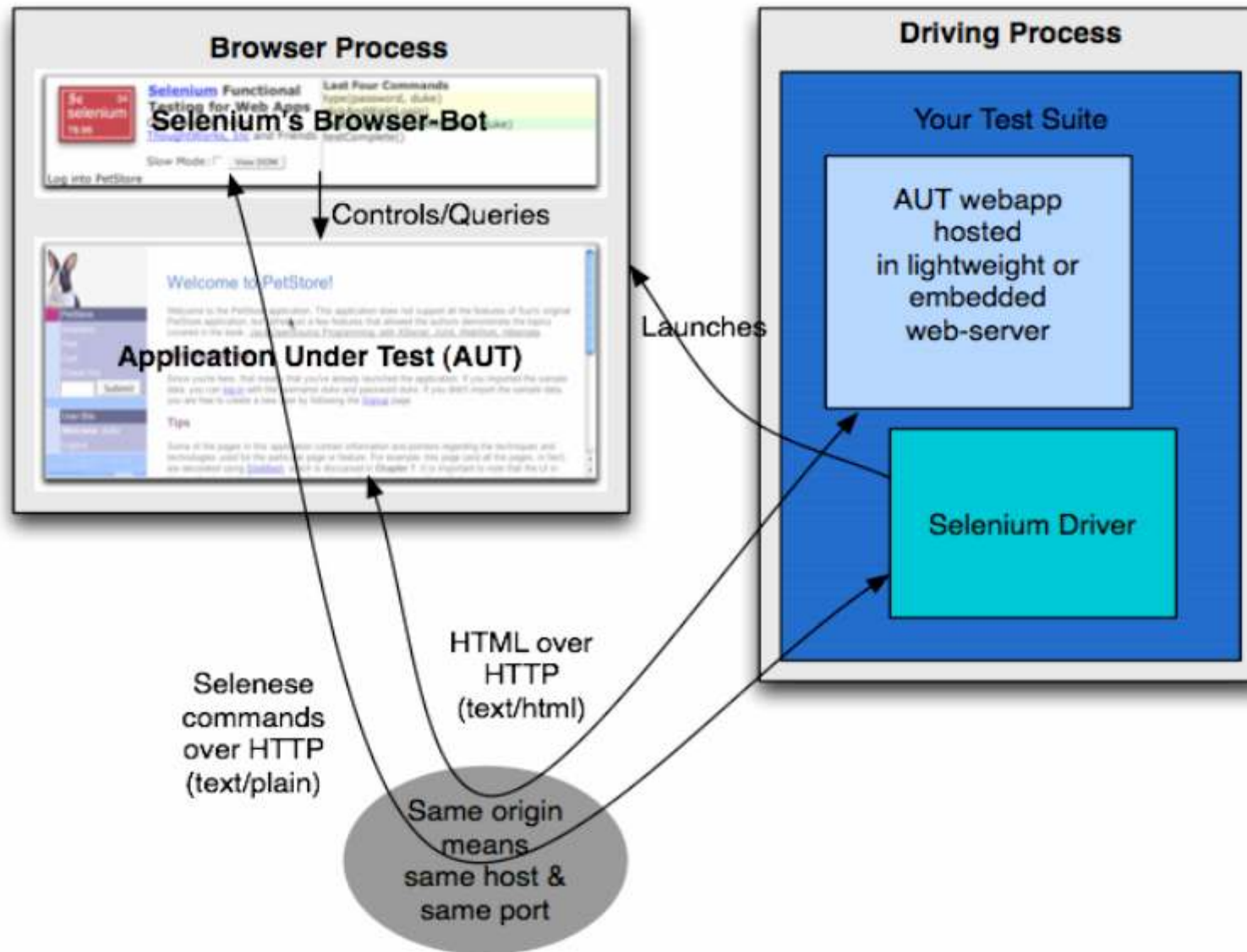
Selenium Core

- 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

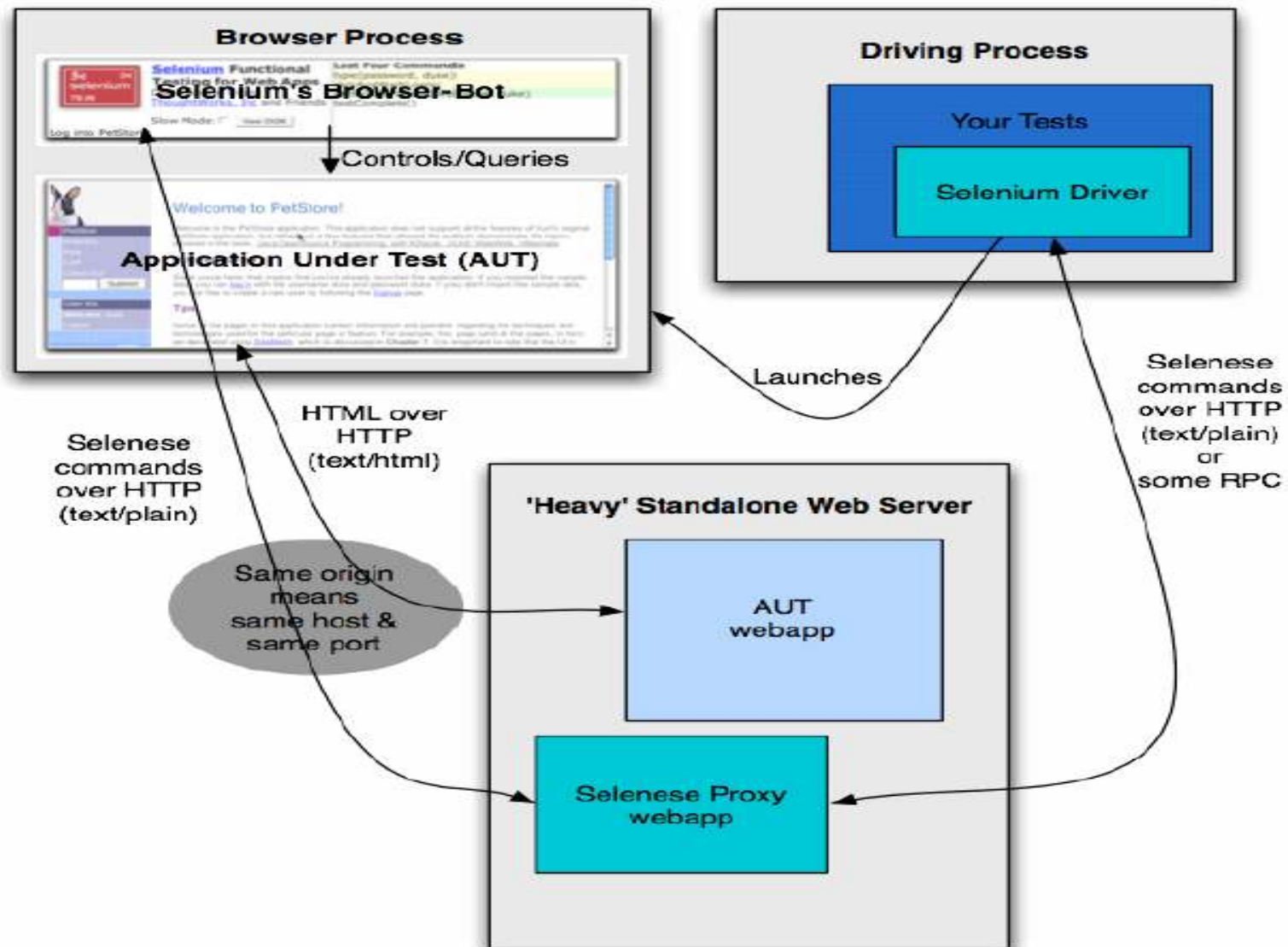
Selenium RC

- 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 (Cross-site scripting issues)
 - The Selenese driver continuously requests pages from the driving process, delivered as plain text
 - This is reply/request (rather than request/reply)

Deployment



Deployment



Object Locator

- HTML-ID's
 - Id>LoginButton
- xpath= xpathExpression
 - Locate an element using an XPath expression. XPath locators must begin with "//".
 - xpath=//img[@alt='The image alt text']
 - xpath=//table[@id='table1']//tr[4]/td[2]
- link= textPattern
 - Select the link (anchor) element which contains text matching the specified pattern.
 - link=The link text
- css=cssSelectorSyntax
 - Select the element using css selectors.
 - css=a[href="#id3"]
 - css=span#firstChild + span

Features

- Multi Platform support
 - Windows, Linux, Mac
- Multi browser support
 - IE, Firefox, Safari, Netscape
- Multiple programming Language support
 - C#, Java, Ruby, Python
- Xpath, Htmlid, DOM, Css selector
- Support Ajax
- ProxyInjection Mode
- Experimental Browsers provided to test secured sites
- Easy to use, small learning curve
- Free-Open source
- Matured Community

Add Inn ' s : Selenium IDE

- Firefox extension
- Not just a recorder
- Easy record and playback
- Intelligent field selection will use IDs, names, or XPath as needed
- Auto complete for all common Selenium commands
- Walk through tests
- Debug and set breakpoints
- Save tests as HTML, Ruby scripts, or any other format
- Support for Selenium Userextensions.js file
- Option to automatically assert the title of every page

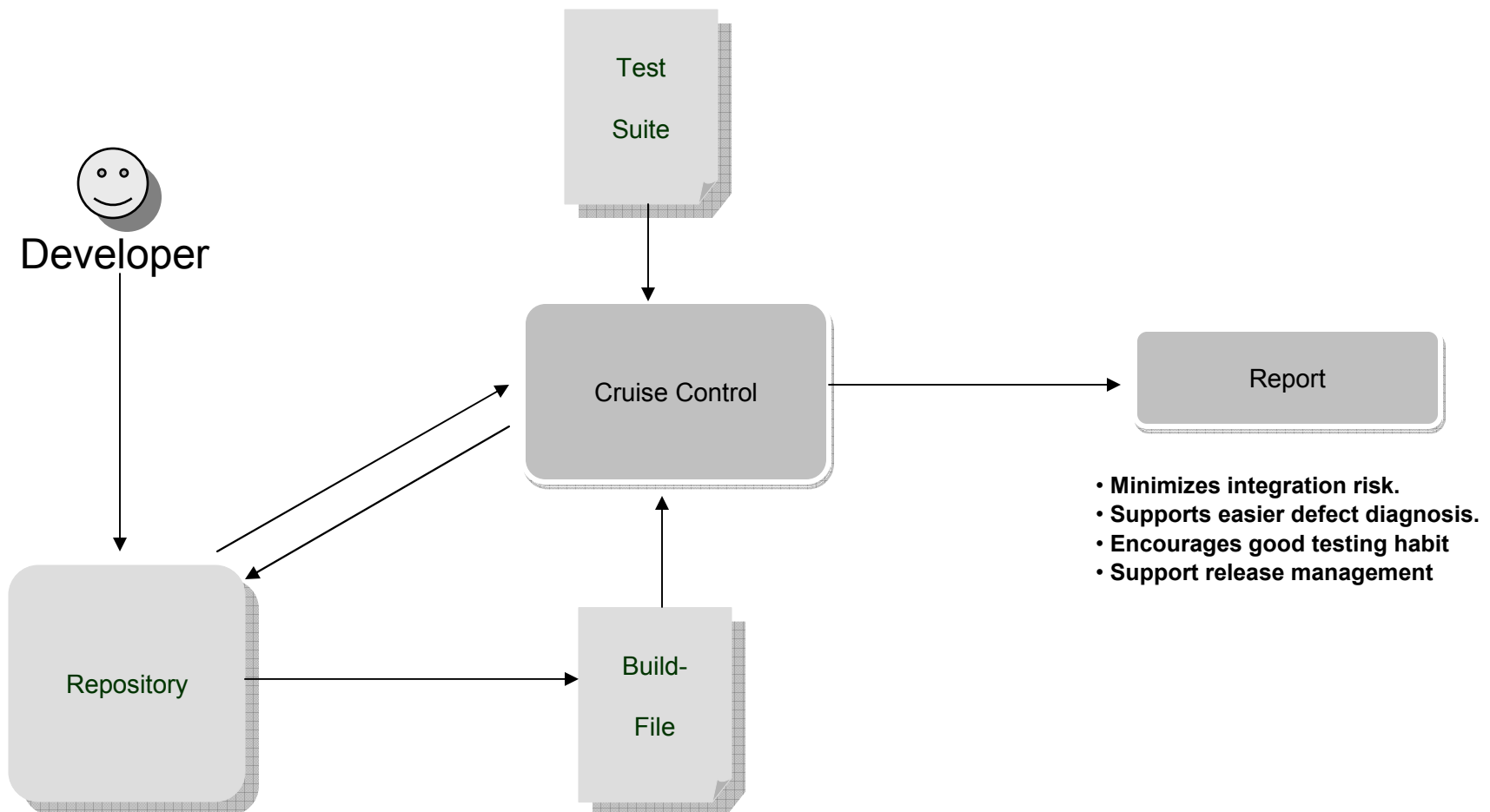


Add Inn 's : Locator Tools

- 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>

Demo

Build Integration



- Minimizes integration risk.
- Supports easier defect diagnosis.
- Encourages good testing habit
- Support release management

Integrates source code and runs tests after each commit of code to the source repository.

Q & A

Selenium download

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<http://www.openqa.com/Selenium>
<http://openqa.org/selenium-rc/>

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