Getting Started with Selenium IDE

# Setup Firefox

* Install the following Firefox add-ons
  + Firebug - <https://addons.mozilla.org/en-us/firefox/addon/firebug/>
  + FirePath - <https://addons.mozilla.org/en-us/firefox/addon/firepath/>
* Install the Selenium IDE from Firefox. Current version is 1.10.0
  + <http://docs.seleniumhq.org/download/>

# Running Selenium

Depending on how you have FF setup, Selenium will either be under Web Developer (below) or under the Tools menu (if you have the menu bar set to display)

Machine generated alternative text:
New Tab
Start Private Browsing
Edit
Find...
Save Page As...
Email Link...
Full Screen
Set Up Sync...
W Exit
Developer Toolbar
Web Console
Inspect
Responsive Design View
Debugger
Scratchpad
Style Editor
Page Source
Error Console
Get More Tools
Character Encoding
Work Offline
4 Selenium IDE
Shift. F2
Ctrl. Shift. K
Ctrl. Shift.I
Ctrl. Shift. M
Ctrl.Shift.S
Shift. F4
Shift. F7
Ctrl.U
Ctrl. Shift.J
Print.,.
Web Developf
IeniumH
w
Firebug
I
Ctrl.Alt.S

Selenium displays and starts recording (red circle button)

Machine generated alternative text:
lit Actions Options Hi
‘‘RL http://1O.40.241.147/
Command Target Value
Command
Target Find
Value
Log Reference UI-Element Rollup lnfo Clear

# Some documentation on Selenium IDE

Getting Started: <http://wiki.openqa.org/display/SIDE/Getting+Started+with+Selenium+IDE>

Selenium Command Reference: <http://release.seleniumhq.org/selenium-core/0.8.0/reference.html>

[http://docs.seleniumhq.org/docs/02\_selenium\_ide.jsp#](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp)

<http://blogs.lessthandot.com/index.php/WebDev/UIDevelopment/automated-web-testing-with-selenium>

# Example: Your first test

With the Selenium IDE recorder running, go to the login page of an SLX web site. Do the following

1. Enter 'lee' in the user name field
2. Click the Logon button
3. Click the Accounts nav button
4. Click the 'Abbott Ltd.' Link/record
5. Click the log off button
6. Stop the recording

You should now have a group of commands like below. Click one of the lines and notice the 3 fields:

* Command - Select from a drop down of pre-built commands
* Target - The way the element on the web page is identified (id, css, XPath, etc.)
* Value - The value to enter into a field, the value to verify, etc. (where applicable)

In the example below, you can see that the highlighted command line is **typing** the value **lee** into the **UserName** field

Machine generated alternative text:
Selenium DE . 6.0
Aituments:
• locator - an element locator
• value-thevaluetotype
a
SagE
Log
Vouar
{ile dit Actions Qptions Help
Base URL http://1O.40.241.147/
Slow
Test Case Table Source
Untitled * ___________
Command
open
Target
/SlxClientlLoqin.aspx
Va lue
cli ckAndWait
cli ckAndWait
cli ckAndWait
cli ckAndWait
id=ContentPlaceHoFf77ThsIxLo...
íd = Conte ntP lace Hold e rAre a_s IxL o...
css=#navEntitiesAccount > a > span
id=AGH EA0002 669
íd =btnLogOff_text
‘z
.
Find
--
Runs: O
Failures: O
Value
Command type
Target idContentPl aceHolderArea_s lxLogi n_UserName
lee
type(Iocatoi value)
Log Reference UI-Element Rollup
E

Now, click the "Play current test case" button (green triangle w/1 bar). The test will playback based on the recorded commands. Each command line will turn a color based on its ability to run. Green is successful. Red means there was an issue. The Log tab also shows the progress and results of the run.

Machine generated alternative text:
Lue Edit Action; Qption; Help
Base URL http://1O.4OE241.147/
Fast 
Test Case Table Source
Untitled *
Command Target Value
open /SlxClient/Login.aspx
type i d =Conte ntP laceHolderArea_slxLo... lee
clickAndWa it id =Conte ntPlace HolderAre a_s lxLo.,,
clickAndWait css=#navEntitiesAccount > a > span
clickAndWait id=AGHEA0002G6O
clickAndWait id=btnLogOff_text
Command type
Target id=ContentPlaceHolderArea_slxLogin_UserName y Find
Value lee
UI-Element Rollup
[IfltOj txecuung: open I /SlxClient/Login.aspx I I
[info] Executing: type I ici=ContentPlaceHolderArea_slxLogin_tjserName I lee
[info] Executing: IclickAndWait I icl=ContentPlaceHolderArea_slxLogin_btnLogin
[info] Executing: IclickAndWait I css=#navEntitiesAccount> a > span
[info] Executing: IclickAndwait I id=AGHEA0002Õ69 I I
[info] Executing: IclickAndWait I id=btnLogOft_text I I

# Example: How to use FirePath to get an XPath value and then create a verification point in Selenium with it

In the first example we recorded and played back some basic UI navigation, but to make your tests useful you'll need to add some verification points into your recorded test case. Here's how to do that using Firebug and FirePath:

Machine generated alternative text:
Sage Sales Log ix  Recently Viewed  New  Schedule  Tools 4.) 47 SpeedSearch  Q
Sales Account - Abbott Ltd. Groups 
Welcome Lookup Results Active Campaigns All Accounts Customers Imported Accounts Latest Accounts My Account 
Accounts 1 of 267  Fi  O i O O Q A
Group List
¿ Contacts Account: bbott Ltd. j Main: (312) 555-7854 Type: Customer Abb Ltd. A
Division: Subsidiary h Fax (312) 555-7545 Sub Type: Hardware Abbott WorlthMde
Grand
Opportunities Avenue Web URL: .abbo... Industry: Communi  AlcoPter Investments
______ AIIid Corp
Suite
Leads Address: 4206 W A ð \Free: (800) 555-1 234 Status: Active Advising Group
wner: Midwest  Desc. of Alpert Fan Inc
900
American Audio • Inc.
Sales Orders Chicago, A Manager: Hogan, Lee  Business: AmSher Research Co.
_____________________________________ ______________________________________ Amtec & Lehman
Marketing li. Click the inspector and then I ¡2. Notice the field is highlighted 3. FirePath will show you the I Artistic Supply
Service click into the Account Field xPath info for that element ATEL Tech Investment
V
A a A 
) V
(
Support
-.. .1..
@2012 S%are Inc. All Rights Reserved. Lee Hogan 08 M
arch 201 3 (UTC-07:00) Arizona I Log Off
Console HL CSS Script DOM Net Cookies Firefinder FireP/
Top Window Highlight Path: .//i@id=MainContent_AccountDetails_AccountName’] Eval
---- -- 
dijitHover’ roie=”presentation” idgetid=’MainContent Account tails AccoiintNaiìie” A
E <div class=”dijitReset di] itVai.idationContainer”>
l <div class=’dijitReset dijitlnputField dijitlnputContainer’>
inContent AccountDetails AccountName” class=”di
angehoo1=”true t
< )
</div
<Idly>
</dir> V
1 matching node

As you'll see in the next step, from FirePath you can copy the XPath value into Selenium IDE for use in the Target field. (You can also try out XPath commands in this view to see if they will find the desired objects)

## Use your new XPath string with Selenium IDE

RMB in the editor and select "Insert New Command". That creates a new blank Command line. I selected 'verifyValue' as the Command from the dropdown. I then entered "XPath=" in the Target field and the copied in the XPath string from FirePath. Finally, I entered the value that is expected.

Machine generated alternative text:
DemoNavigateAndVerify.htrr - Se c-rwrr
:::avEntitiesAccount> a > span Value
Verify Accounts dis..,
verifyElementPresent XPath=./rI@id=PageTitleText] Accounts
Click Abbott Ltd.
clickAndWait id=AGHEA0002669
Verify Account - Ab...
verifyElementPresent Xpath=./fkI@iid=PageTitIeText] Account - Abbott Ltd
IVerify Account and ... ______ ___________
Z1alue XPath=./@id=MainConte. Abbott Ltd. r
verifyValue XPath=./r[@id=MainContent_Ac... (312) 555-7854
Verify Owner Field is...
verifyNotEditable XPath=.//*[@iid=MainContent_Ac...
Click the Activities T...
. css=#show_ActivityList > a.tws -ta...
Value Copied from FirePath _________
I I ari verifyValue ______
Target XPath=,/f*[@id=MainContent_AccountDetails_AccountName] Find
Runs: O Value Abbott Ltd.
Failures: O

I then RMB on the line and selected "Execute this command":

Machine generated alternative text:
VerifyAccount and ...
XPath=jtJ=’MainCWtTì1TÍ
verifyValue XPath=JP[@id=’MainCont Cut Ctrl÷X
Verify Owner Field is... Çopy Ctrl÷C
verifyNotEditable XPath=./P[@id=’MainCont Paste Ctrl +V
Click the Activities T...
. . . . Delete Del
click css=#show_ActivityList > a,
Insert New Command
Command verifyValue
Insert New Comment
Target XPath=./P( ©id= ‘Main Conte nt_Acco
Clear All
Value Abbott Ltd. .
Toggle fireakpoint B
Set/ClearStartPoint S
ice UI-Element Rollup Execute this command X

The line will then turn green or red depending on whether or not it the "verifyValue" command passed or failed:

Machine generated alternative text:
verifyElementPresent Xpath=.ll*[tid=PageTitIeTextj Account - Abbott Ltd
Verify Account and ...
verifyValue XPath=./P[@id=MainContent_Ac... Abbott Ltd.
verifyValue XPath=.//*[tid=MainContent_Ac.,. (312) 555-7854
Verify Owner Field is...
verifvNotEditable XPath=.ff*Iid=MainContent Ac...

You've now used FirePath to create a verification point in Selenium

# Some more info on XPath

XPath is a powerful way to find elements on a given webpage. Sometimes the elements won't be as straight-forward to identify like they were in the example above. In those cases you can use different XPath syntax to search for specific property values, do wildcard searches against element names and more.

Here's a good XPath tutorial: <http://www.w3schools.com/xpath/default.asp>

Here are a couple examples of what you can do with XPath:

Find an element by attribute

.//\*[@id='list\_listGrid']/descendant::\*[@title='']

.//\*[@class='dojoxGridRowTable']//descendant::\*[@title='Meeting']

Find element by text

.//\*[@id='TabControl']/descendant::\*[text() = '']

.//\*[@id='MainNav']/descendant::\*[text() = '']

Find element by partial attribute name

.//\*[@id='AccountDetails']/descendant::\*[contains(@class,'\_List\_View\_')]

# Demo Project (copy locally)

[\\10.40.240.27\Selenium\Selenium IDE Test Cases\Demo - Web Client](file:///\\10.40.240.27\Selenium\Selenium%20IDE%20Test%20Cases\Demo%20-%20Web%20Client)