Test Automation Lecture 11 – Getting Started with Selenium IDE



Lector: Milen Strahinski

Skype: strahinski

E-mail: milen.strahinski@pragmatic.bg

Facebook: http://www.facebook.com/LamerMan

LinkedIn: http://www.linkedin.com/pub/milen-strahinski/a/553/615

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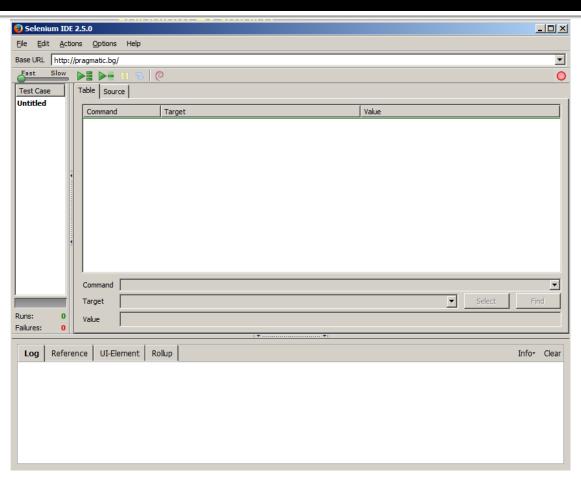


Summary - overall

- What is Selenium IDE
- Recording our first test
- Dpdating tests to work with AJAX sites
- Dsing variables in our tests
- Debugging tests
- Saving tests to be used later
- ②reating and saving test suites
- Working with multiple windows
- Using one of the most famous extensions

Selenium IDE





 http://release.seleniumhq.org/seleniumcore/1.0/reference.html

Rules for automation



- Tests should always have a known starting point. In the context of Selenium, this could mean opening a certain page to start a workflow.
- Tests should not have to rely on any other tests to run. If a test is going to add something, do not have a separate test to delete it. This is to ensure that if something goes wrong in one test, it will not mean you have a lot of unnecessary failures to check.
- Dests should only test one thing at a time.
- Dests should clean up after themselves.

Recording our first test



Click on the red circle and open

http://pragmatic.bg/automation/example1.html

Assert / Verify (part 1)

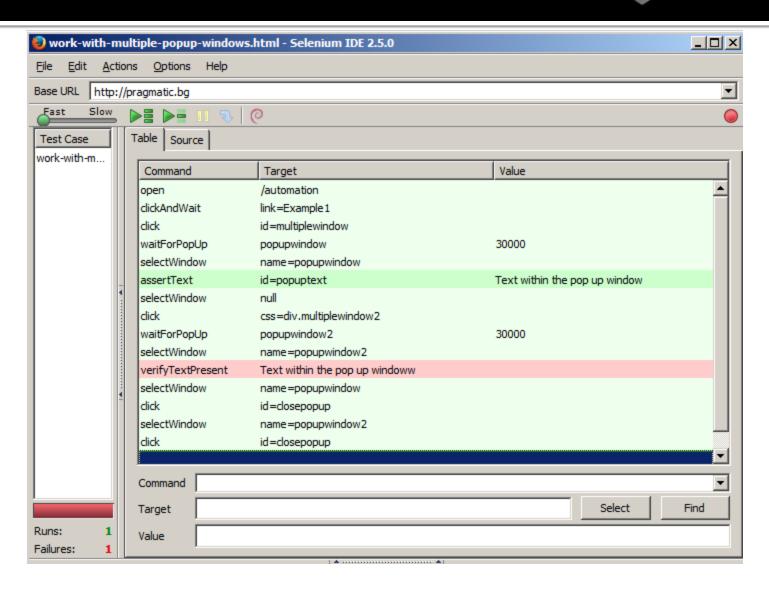


- DerifyElementPresent
- assertElementPresent
- assertElementNotPresent
- assertText
- DerifyAttribute
- assertAttribute
- DerifyChecked
- assertChecked
- DerifyAlert
- assertAlert
- ØerifyTitle
- assertTitle

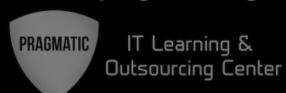
open /chapter1
verifyTextPresent Assert that this text is on the page
verifyValue
storeValue
verifyText divontheleft Assert that this text is on the page
verifyElementPresent divontheleft
waitForElementPresent divontheleft
Show All Available Commands

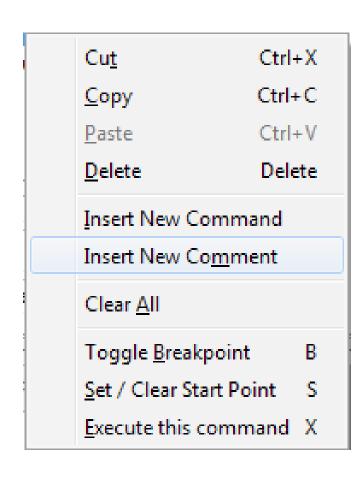
Assert / Verify (part 2)





Insert comments





Base URL http://pragmatic.bg/ Table Source Command Target Value open /automation/example1.html Starting main part of the test storeText id=divontheleft pragmaticVar Man over board:) type id=storeinput \${pragmaticVar}
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Man over board :) type id=storeinput \${pragmaticVar}
type id=storeinput \${pragmaticVar}
Command Man over board :)
Target Select Find
Value
¥ ★

Working with multiple windows (part 1)



- 1. Open up Selenium IDE in record mode and go to the Example1 page on the site. http://pragmatic.bg/automation/example1.html
- 2. Click on one of the elements on the page that has the text Click this link to launch another window. This will cause a small window to appear.
- 3. Verify the text in the popup by right-clicking and selecting VerifyText id=popup text within the popup window.
- 4. Once the window has loaded, click on the Close the Window text inside it.
- 5. Add a verify command for an element on the main page.

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Working with multiple windows (part 2)



- <div id='multiplewindow' class='multiplewindow'</pre> onClick='window.open("windowpopup.html","popupwindow","widt h=300,height=200");'>Click this link to launch another window</div>
- selectWindow(windowID)
 - title=My Special Window: Finds the window using the text that appears in the title bar. Be careful; two windows can share the same title. If that happens, this locator will just pick one.
 - **name**=myWindow: Finds the window using its internal JavaScript "name" property. This is the second parameter "windowName" passed to the JavaScript method window.open(url, windowName, windowFeatures, replaceFlag) (which Selenium intercepts).
 - **var**=*variableName*: Some pop-up windows are unnamed (anonymous), but are associated with a JavaScript variable name in the current application window, e.g. "window.foo = window.open(url);". In those cases, you can open the window using "var=foo".

Working with multiple windows (part 3)



Demonstration of a more complex example with 2 popup windows and a main window. Refer to the code examples in the lecture:

work-with-multiple-popup-windows.html

Selenium IDE tests against AJAX PRAGMATIC ATT Learning & Outsourcing Center Outsourcing Center

- 1. Start up Selenium IDE and make sure that the Record button is pressed.
- 2. Navigate to http://pragmatic.bg/automation/example1.html
- 3. Click on the text that says Click this link to load a page with AJAX.
- 4. Verify the text that appears on your screen.
- Refer to the code examples in the lecture: example-WITHOUT-fix-for-the-ajax.html example-WITH-fix-for-the-ajax.html

- WaitForAlertNotPresent
- WaitForAlertPresent
- WaitForElementPresent
- WaitForElementNotPresent
- WaitForTextPresent
- WaitForTextNotPresent
- WaitForPageToLoad
- WaitForFrameToLoad
- and much more waitFor* in Selenium IDE

Storing information from the page in the test



- Let's try to store something into some variables
- Using the saved vars is done the following way: storedVars['variableName'] or \${variableName}
- Refer to the code examples in the lecture: store-variable-example.html

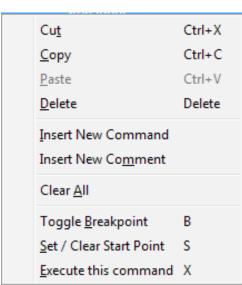




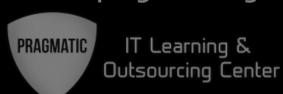
Using the pause and next step buttons

 Using echo command, it's equivalent to Console.log in JavaScript. For example, echo | \${variableName}.

Using breakpoints



Test Suites



- Creating new test suite
- Saving test suite
 - One thing to note is that saving a test suite does not save the test case. Make sure that you save the test case every time you make a change and not just the test suite.
- Play entire test suite



What you cannot record

- Silverlight and Flex/Flash applications
- PTML 5 is not fully supported with Selenium IDE. A good example of this is elements that have the contentEditable=true attribute.
- Selenium IDE cannot do file uploads.

Exporting Selenium IDE tests and results

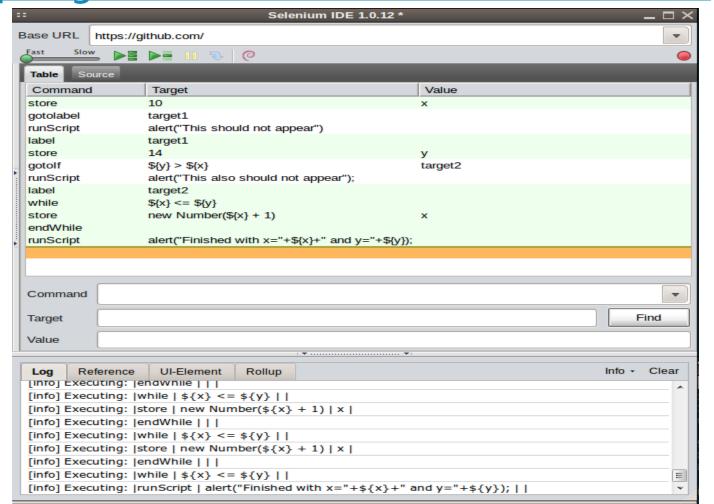


- Exporting test cases
- Exporting test suites
- Exporting test case results...
- Exporting test suite results...

goto, gotolF, while loop in Selenium IDE (part 1)



https://github.com/darrenderidder/sideflow



goto, gotoIF, while loop in Selenium IDE (part 2)



- label | mylabel creates a label called "mylabel" (a goto target)
- goto | mylabel goto "mylabel"
- gotoLabel | mylabel synonym for goto
- gotolf | expression jump to specified label if expression is true
- while | expression loop while expression is true
- endWhile indicate the end of a while loop
- push | value | arrayName push value onto an array, creating array if necessary

goto, gotoIF, while loop in Selenium IDE (part 3)



Lets have a look on the following examples:

goto-gotolF-whileloop-example.html foothill-college-example-data-driven-data.html

Useful Selenium IDE plugins (part 1)



- Favorites
- https://addons.mozilla.org/en-US/firefox/addon/favorites-selenium-ide/versions/
- File Logging
- https://addons.mozilla.org/en-US/firefox/addon/file-logging-selenium-ide/versions/
- Highlight Elements
- https://addons.mozilla.org/en-US/firefox/addon/highlight-elements-selenium-id/versions/
- Log Search Bar
- https://addons.mozilla.org/en-US/firefox/addon/log-search-bar-selenium-ide/versions/
- Page Coverage
- https://addons.mozilla.org/en-US/firefox/addon/page-coverage-selenium-ide/versions/
- Power Debugger
- https://addons.mozilla.org/en-US/firefox/addon/power-debugger-selenium-ide/versions/

Useful Selenium IDE plugins (part 2)



- ScreenShot on Fail
- https://addons.mozilla.org/en-US/firefox/addon/screenshot-on-fail-selenium/versions/
- Selenium Expert
- https://addons.mozilla.org/en-US/firefox/addon/selenium-expert-selenium-ide/versions/
- Stored Variables Viewer
- https://addons.mozilla.org/en-US/firefox/addon/stored-variables-viewer-seleni/versions/
- Test Results
- https://addons.mozilla.org/en-US/firefox/addon/test-results-selenium-ide/versions/
- Test Suite Batch Converter
- https://addons.mozilla.org/en-US/firefox/addon/test-suite-batch-converter-sel/versions/

Practice & Questions?



Practice exercises and Questions?