

## Selenium: first steps

1. Read about Selenium. Install, if needed
  - a. See the product site: <http://seleniumhq.org/>
  - b. Read about Selenium IDE: <http://seleniumhq.org/projects/ide/>
  - c. Open the Firefox Tools menu (if the Tools menu is missing, press Alt). If Selenium IDE is not on the Firefox Tools menu, download Selenium IDE using Firefox (<https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/>) and allow to install. See also [http://docs.seleniumhq.org/docs/02\\_selenium\\_ide.jsp](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp). Restart Firefox. Note: Please stay on Firefox version 54 or older.
  - d. For Chrome, please install extension Katalon Recorder (Selenium IDE for Chrome) or SideeX (<http://sideex.org/>).
  - e. The instructions given below are for Firefox; with some modifications they apply to other Selenium IDE inspired systems as well.
2. Create a simple test ([http://docs.seleniumhq.org/docs/02\\_selenium\\_ide.jsp](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp))
  - a. After Firefox reboots, select Selenium-IDE from the Firefox Tools menu. Arrange the windows so you can watch the browser and IDE simultaneously.
  - b. Select the website under test. Push the Record button. Open some web pages in the browser and watch the test on the Selenium\_IDE screen. Remember the pages opened. Note: opening websites from the bookmarks bar is not registered.
  - c. Save the test (File menu)
3. Execute the simple test
  - a. Reboot the browser and delete history (just to see the results better)
  - b. Run Selenium-IDE from the Firefox Tools menu.
  - c. Open the test saved earlier and follow its execution.
  - d. Select fast or slow speed of execution (if available).
  - e. Execute step-by-step (Slow-Play-Pause-Step - if available).
4. In case a test fails (examples)
  - a. Try starting the test from exactly the same situation as the original run, eg by using Base URL
  - b. Try pushing a button on the screen instead of pushing "Enter"
  - c. Use *clickAndWait* or try slow speed of execution
  - d. Try deleting unnecessary commands (e.g. `selectWindow name=_uues_aknas`)
  - e. Analyze the command: what can go wrong if executed from the current situation on the screen?

- f. See errors on the troubleshooting section of [http://docs.seleniumhq.org/docs/02\\_selenium\\_ide.jsp](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp)
  - g. The application may have changed; or the test may have found an error in the application; etc
5. Create and execute more complicated tests
  - a. Try "Building test cases" section on [http://docs.seleniumhq.org/docs/02\\_selenium\\_ide.jsp](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp)
  - a. Record inputting some data, eg a search (instant search may not work)
  - b. Run the test. In case a test step fails try to find out why.
  - c. Pick a calculator (eg <http://www.math.com/students/calculators/source/basic.htm>), try recording, experiment (record-play-record ...)
  - d. Open Amazon (or similar), find a product, open it, check selected text (eg, if price has changed).
  - e. Try editing - deleting, adding, moving, etc commands in the test table ("Delete", rightclick, drag-and-drop ...)
  - f. Use verifyValue, asertTitle, and other commands (may be inserted by right-clicking on the browser location and selecting the Selenium command)
  - g. Open the source view, edit
  - h. Execute step-by-step
6. Tools and selenese
  - a. Select "Source", see the text, save as html, look in a browser
  - b. Try "Log" and "Reference" on the bottom window
  - c. See / use the section "*Selenium commands - 'Selenese'*" on [http://docs.seleniumhq.org/docs/02\\_selenium\\_ide.jsp](http://docs.seleniumhq.org/docs/02_selenium_ide.jsp)
7. Read further <http://seleniumhq.org/docs/>