Pre-Class Reading

Browser automation with Selenium Webdriver

Here is a list of materials you will need to read in preparation for the next lab period. Read everything carefully to make sure you understand the concepts presented here. There will be a reading quiz at the beginning of class.

Readings

HTML and CSS

While you will not be writing any HTML or CSS in this class, you will need to be somewhat familiar with them, and particularly with classes and ids as that is what Selenium Webdriver uses to interact with elements on a webpage.

https://css-tricks.com/the-difference-between-id-and-class/

Selenium Webdriver Introduction

https://www.selenium.dev/documentation/en/introduction/the_selenium_project_and_tools/

Pre-Class Assignment

Selenium can be used to test web apps on most browsers. The instructions in the tutorial will assume you are using Chrome. If you do not already have Chrome installed on your laptop, you should download and install it now.

After installing Chrome, download and install the version of the chromedriver for your version of Chrome. The easiest way to download and install chromedriver is to use a package manager by following the instructions at this URL:

https://github.com/SeleniumHQ/selenium/wiki/ChromeDriver

Note: These instructions will only work if you have the package manager for your operating system specified in the "Quick installation" section of the above instructions. If you do not have the specified package manager installed, you can either install it first (recommended) or manually install chromedriver by following the instructions at this URL:

https://sites.google.com/a/chromium.org/chromedriver/getting-started

Confirm that you have successfully installed ChromeDriver by opening a terminal window or command prompt and typing: ChromeDriver

You should see an output that looks something like the picture below. If you are having problems on macOS, look at Installing ChromeDriver on Mac.

```
~$ ChromeDriver
Starting ChromeDriver 78.0.3904.70 (edb9c9f3de0247fd912a77b7f6cae7447f6d3ad5-refs/branch-heads/3904@{#800}) on port 9515
Only local connections are allowed.
Please protect ports used by ChromeDriver and related test frameworks to prevent access by malicious code.
```