Installation

========

1. Selenium:

pip install selenium

CODE:

```
from selenium import webdriver

DRIVER_PATH = '/path/to/chromedriver'
driver = webdriver.Chrome(executable_path=DRIVER_PATH)
driver.get('https://google.com')
```

HEADLESS BROWSER:

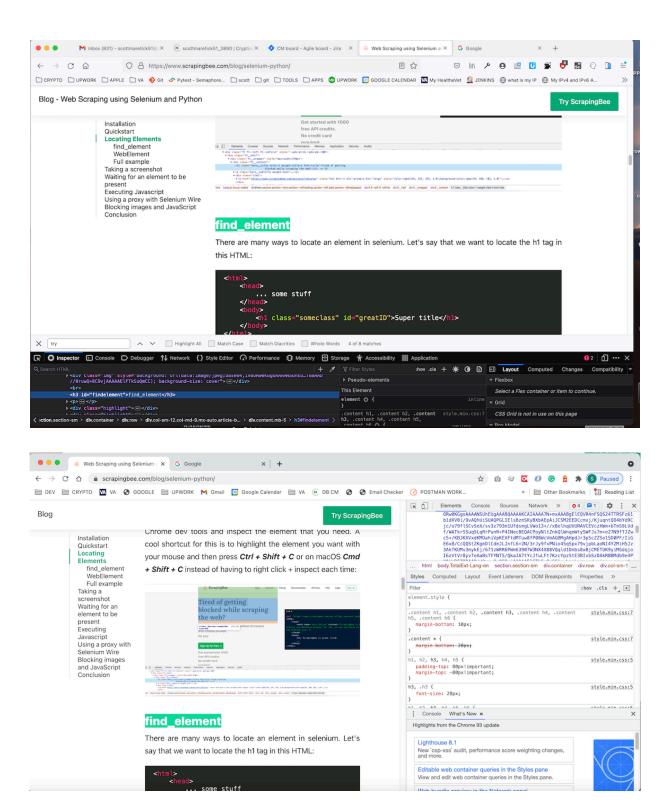
```
from selenium import webdriver
from selenium.webdriver.chrome.options import Options

options = Options()
options.headless = True
options.add_argument("--window-size=1920,1200")

driver = webdriver.Chrome(options=options,
executable_path=DRIVER_PATH)
driver.get("https://www.nintendo.com/")
print(driver.page_source)
driver.quit()
```

LOCATE ELEMENTS:

- 1. Navigate to the element you want to identify in browser
- 2. Right click on element & select "Inspect"
- 3. the detailed HTML code will be in the inspection window at the bottom of the browser (FireFox) & on the right (Chrome)



WebElement

========

Accessing the text of the element with the property element.text Clicking on the element with element.click()

Accessing an attribute with element.get_attribute('class')

Sending text to an input with:

element.send_keys('mypassword')

Honeypots are mechanisms used by website owners to detect bots.

For example, if an HTML input has the attribute type=hidden like this:

<input type="hidden" id="custId" name="custId" value="">
In our example, authenticating to Hacker News is not really useful
on its own.

However, you could imagine creating a bot to automatically post a link to your latest blog post.

In order to authenticate we need to:

Go to the login page using driver.get()

Select the username input using driver.find_element_by_* and then element.send_keys() to send text to the input

Follow the same process with the password input Click on the login button using element.click()

CODE:

```
driver.get("https://news.ycombinator.com/login")
login = driver.find_element_by_xpath("//
input").send_keys(USERNAME)
password = driver.find_element_by_xpath("//
input[@type='password']").send_keys(PASSWORD)
submit = driver.find_element_by_xpath("//
input[@value='login']").click()
```

```
How do we know if we are logged in?
try:
  logout button = driver.find element by id("logout")
  print('Successfully logged in')
except NoSuchElementException:
  print('Incorrect login/password')
try:
  element = WebDriverWait(driver, 5).until(
     EC.presence of element located((By.ID, "mySuperId"))
finally:
  driver.quit()
Waiting for an element to be present
try:
  element = WebDriverWait(driver, 5).until(
     EC.presence of element located((By.ID, "mySuperId"))
finally:
  driver.quit()
Executing Javascript
javaScript = "window.scrollBy(0,1000);"
driver.execute script(javaScript)
```

Using a proxy with Selenium Wire

pip install selenium-wire

This code snippet shows you how to quickly use your headless browser behind a proxy:

```
# Install the Python selenium-wire library:
# pip install selenium-wire
from seleniumwire import webdriver
```

```
proxy_username = "USER_NAME"
proxy_password = "PASSWORD"
proxy_url = "http://proxy.scrapingbee.com"
proxy_port = 8886

options = {
    "proxy": {
        "http": f"http://{proxy_username}:{proxy_password}}
    @{proxy_url}:{proxy_port}",
        "verify_ssl": False,
    },
}

URL = "https://httpbin.org/headers?json"

driver = webdriver.Chrome(
    executable_path="YOUR_CHROME_EXECUTABLE_PATH",
        seleniumwire_options=options,
)
driver.get(URL)
```

Blocking images and JavaScript

With Selenium, by using the correct Chrome options, you can block some requests from being made.

```
from selenium import webdriver

chrome_options = webdriver.ChromeOptions()

### This blocks images and javascript requests
chrome_prefs = {
    "profile.default_content_setting_values": {
        "images": 2,
        "javascript": 2,
    }
}
chrome_options.experimental_options["prefs"] = chrome_prefs

###

driver = webdriver.Chrome(
    executable_path="YOUR-CHROME-EXECUTABLE-PATH",
    chrome_options=chrome_options,
)
driver.get(URL)
```