WEB SCRAPING USING PYTHON

-KRUTI PATEL

WHAT ARE WE GOING TO LOOK TODAY......

- Selenium
- Few important things
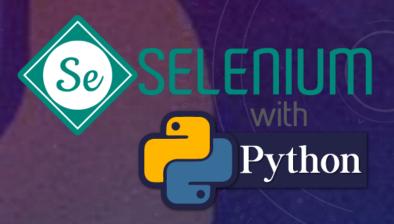- Build Web Scraper using selenium

SELENIUM

o Selenium is a powerful web scraping tool developed originally for website testing.

o It works by automating browsers to load the website, retrieve the required data & even take screenshots.

o It do not contain its own web browsers; to run it you need the third party web browser.

SELENIUM WITH PYTHON

o The *selenium* package is used to automate web browser interaction from Python.

o Selenium Python bindings provides a simple API to write functional/acceptance tests using Selenium WebDriver.

o WebDriver:
  o Is like a browser
  o It can load websites
  o Do actions to drive web scrapers

o Selenium Webdrivers:
  o Chrome
  o Firefox
  o Edge
  o Safari
  o PhantomJS

INSTALLATION

o   Python 3.6 has pip available in the standard library. Using *pip*, you can install selenium like this:

```
$ pip install selenium
```

o   WebDriver Installation:

   o   Chrome –

     https://sites.google.com/a/chromium.org/chromedriver/downloads

   o   Firefox –

     https://github.com/mozilla/geckodriver/releases

LOCATING ELEMENTS:

- *find_element_by_id*

- *find_element_by_name*

- *find_element_by_xpath*

- *find_element_by_link_text*

- *find_element_by_partial_link_text*

- *find_element_by_tag_name*

- *find_element_by_class_name*

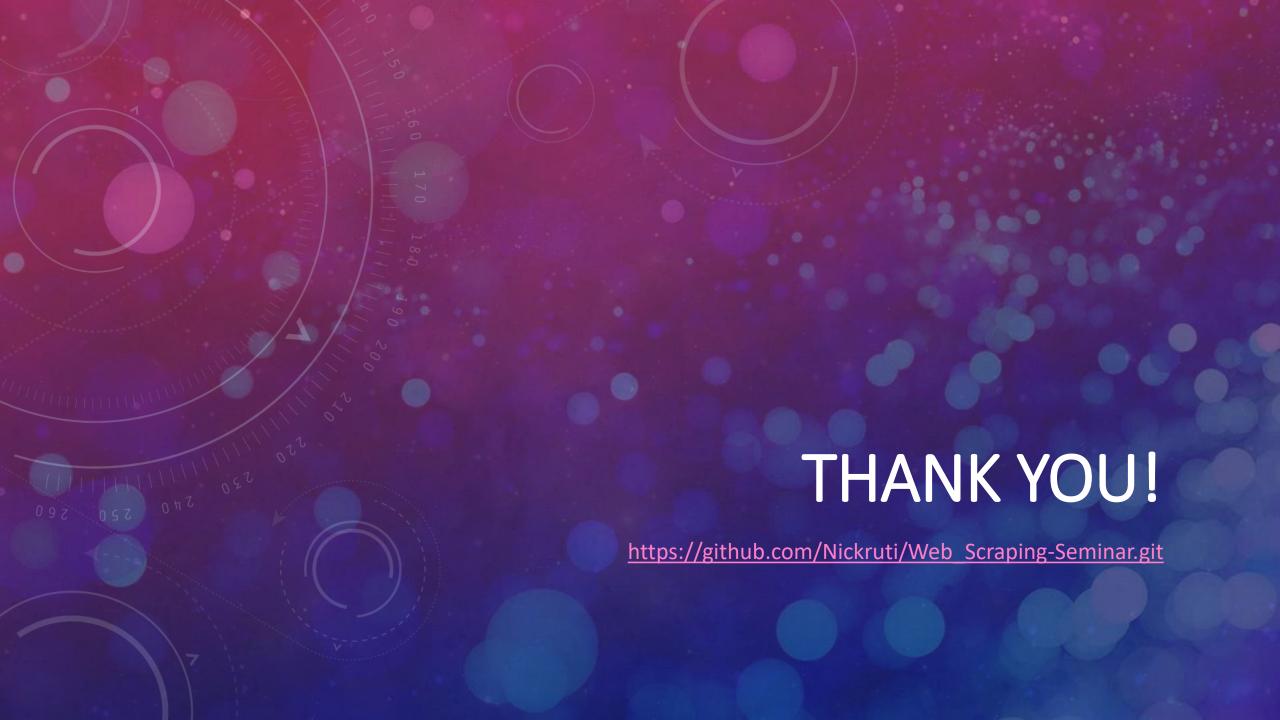- *find_element_by_css_selector*

To find multiple elements (these methods will return a list):

- *find_elements_by_name*

- *find_elements_by_xpath*

- *find_elements_by_link_text*

- *find_elements_by_partial_link_text*

- *find_elements_by_tag_name*

- *find_elements_by_class_name*

- *find_elements_by_css_selector*

LET'S START CODING

USEFUL REFERENCES

o Driver Downloads:

    o https://sites.google.com/a/chromium.org/chromedriver/downloads - Chrome WebDriver

    o https://github.com/mozilla/geckodriver/releases - Firefox WebDriver

o https://selenium-python.readthedocs.io/ - Site

o https://realpython.com/modern-web-automation-with-python-and-selenium/ - Site

THANK YOU!

https://github.com/Nickruti/Web_Scraping-Seminar.git

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