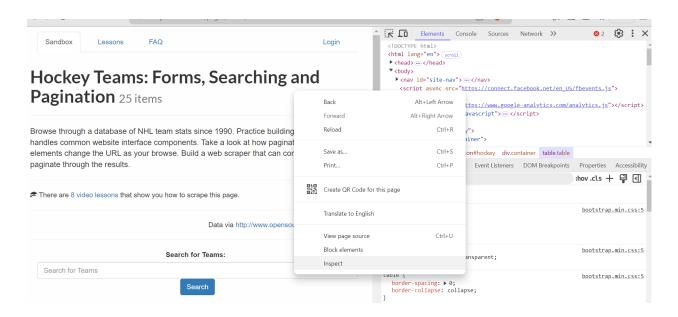
# **Data Analyst Bootcamp**

Web Scraping in Python

#### **Inspecting Web Pages with HTML**



inspect and then click on arrow(left of elements in inspect) and then inspect whatever u like

### **BeautifulSoup + Requests**

```
from bs4 import BeautifulSoup
import requests

url ='https://www.scrapethissite.com/pages/forms/'

page=requests.get(url)

#204 400 401 404 bad req 204 no content 404 error
soup = BeautifulSoup(page.text,'html')

print(soup)

print(soup.prettify)
```

#### find and find all

```
soup.find('div') #finds only first response
soup.find_all('div') #finds every div response
soup.find_all('p', class_ = 'lead')
soup.find_all('p', class_ = 'lead').text #error cause find all
soup.find('p', class_ = 'lead').text.strip()
soup.find_all('th')
soup.find('th').text.strip()
```

## Scraping data from real website + Pandas

```
from bs4 import BeautifulSoup import requests
```

```
url='https://en.wikipedia.org/wiki/List_of_largest_companies_in_
page=requests.get(url)
soup=BeautifulSoup(page.text,'html')
print(soup)
soup.find_all('table')[0]
#soup.find('table',class_='wikitable sortable') we can use this
table=soup.find_all('table')[0]
print(table)
world_titles=table.find_all('th')
world_titles
world_table_titles=[title.text.strip() for title in world_titles
print(world_table_titles)
import pandas as pd
df=pd.DataFrame(columns=world_table_titles)
df
column_data=table.find_all('tr')
for row in column_data[1:]:
    row_data=row.find_all('td')
    individual_row_data=[data.text.strip() for data in row_data
    #print(individual_row_data)
    length=len(df)
    df.loc[length]=individual_row_data
df
```

df.to\_csv(r'C:\Users\User\Documents\FileSorter\companies.csv',i