ADobbs Web-Scraping-Lab 5/7/25, 10:04 AM



Hands-on Lab: Web Scraping

Estimated time needed: 30 to 45 minutes

Objectives

In this lab you will perform the following:

- Extract information from a given web site
- Write the scraped data into a csv file.

Extract information from the given web site

You will extract the data from the below web site:

```
In [1]: #this url contains the data you need to scrape
url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cl
```

The data you need to scrape is the **name of the programming language** and **average annual salary**.

It is a good idea to open the url in your web broswer and study the contents of the web page before you start to scrape.

Import the required libraries

```
In [2]: from bs4 import BeautifulSoup
import requests
import pandas as pd
```

Download the webpage at the url

```
In [3]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cl
In [4]: data = requests.get(url).text
```

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Create a soup object

```
In [5]: soup = BeautifulSoup(data,"html.parser")
```

Scrape the Language name and annual average salary.

	Language Name	Average Salary
0	Language	Average Annual Salary
1	Python	\$114,383
2	Java	\$101,013
3	R	\$92 , 037
4	Javascript	\$110,981
5	Swift	\$130,801
6	C++	\$113,865
7	C#	\$88,726
8	PHP	\$84 , 727
9	SQL	\$84,793
10	Go	\$94,082

Save the scrapped data into a file named popular-languages.csv

```
In [10]: # your code goes here
    df.to_csv('popular-languages.csv')
```

Authors

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Change Log

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Date (YYYY-MM- DD)	Version	Changed By	Change Description
2020-10-17	0.1	Ramesh Sannareddy	Created initial version of the lab

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