Web scrapping behind authentication

Web scrapping of a private GitHub repository with requests and Beautiful Soup.

1. First steps

```
In [115]: import requests from bs4 import BeautifulSoup
```

2. Getting data

We need to know two things:

- 1. The URL to which the POST request (sign in) will be sent.
- 2. The payload, or data that will be sent.

How?

- 1. Clear all the data from the *network* tab in the developer tools and sign in.
- 2. Go to session and save the URL. In this case: https://github.com/session

```
In [116]: url = "https://github.com/session"

# Create the session object
s = requests.Session()

response = s.post(url)
```

```
Out[117]: <Response [403]>
```

In [117]: response

It doesn't work. We need to pass it more information. Go to the network tab again and right click to session, then copy, and then copy as cURL.

You can paste it into this website: https://curl.trillworks.com/, to get the request written in Python.

From that request we need two things: the cookies and the data.

```
In []: # Complete this with your personal session data.

cookies = {
    #...
}

headers = {
    #...
}

data = {
    #...
}

s = requests.Session()

response = requests.post('https://github.com/session', headers=headers, cookies=cookies, data=data)
```

Now we're signed in. Let's request something from a repository.

I choosed this one because is a private repository.

```
In [119]: s = requests.Session()
s.post('https://github.com/session', data=data, cookies=cookies, headers=headers)
result = s.get("https://github.com/paulawoloszyn/php_login")
result
Out[119]: <Response [200]>
```

It worked! Now let's scrap something.

3. Scrapping

We'll start using the Beautiful Soup library. We already have in the 'result' variable the content of our page.

Some example of scrapping, to check if we are on the website.

```
In [136]: samples = soup.find_all("h2")
# print(samples)

In [141]: for a in samples:
    a = a.get_text().strip()
```

```
a = a.get_text().strip()
print(a)

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