Data Representation
Lab 06.02: API Keys

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In this lab we are going to use Python access APIs that need a key

We are using the APIs as described by:

- https://html2pdf.app/
- https://developer.github.com/v3/guides/

1. Write a python program that will read in a html page from a file and prints it out again

```python
f = open("../../week02/carviewer2.html", "r")
html = f.read()
print (html)
```

2. Modify the script to use the html2pdf.app api with the key:
   46ceed910c24ff7cce8240e89ec7b71912f6f40f2ec55fd217ce150ad
   6d4f1c4. The script should print out the status code of the response

```python
import requests
import json

#html = '<h1>hello world</h1>This is html'
f = open("../../week02/carviewer2.html", "r")
html = f.read()
#print (html)

apiKey = '46ceed910c24ff7cce8240e89ec7b71912f6f40f2ec55fd217ce150a
d6d4f1c4'
url = 'https://api.html2pdf.app/v1/generate'

data = {'html': html,'apiKey': apiKey}
response = requests.post(url, json=data)
print (response.status_code)
```

3. Modify the program to write the binary data returned to a file .pdf

```python
newFile = open("lab06.02.01.htmlaspdf.pdf", "wb")
newFile.write(response.content)
```

4. Test your code (open the pdf)

Get private data from github:

5. Use curl to check if the API key:

`f59b1cdb743ce0ab9b21a94ac246b02f06ee2d85`

Can be used to access githup private data (This should all be on one line)

```
curl -i -H "Authorization: token
f59b1cdb743ce0ab9b21a94ac246b02f06ee2d85
https://api.github.com/user/repos
```

6. Write python script that will get the information from a private repository called

`datarepresentationstudent/aPrivateOne`

And output the result to a file

```python
response = requests.get(url, auth=('token',apiKey))

repoJSON = response.json()
#print (response.json())

file = open(filename, 'w')
json.dump(repoJSON, file, indent=4)
```

Challenge

7. Write a script to get information from your repository
8. Write a script that will make a change to the datarepresentationstudent git account