# 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:

- <a href="https://html2pdf.app/">https://html2pdf.app/</a>
- <a href="https://developer.github.com/v3/guides/">https://developer.github.com/v3/guides/</a>

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

```
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

```
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

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

4. Test your code (open the pdf)

Remove this minus sign

#### Get private data from github:

5. Use curl to check if the API key:

## 7aa146eafee094d3a7b1e81aa1d8fcb0eec8b91/-0

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

(This key gets deleted if you upload a file to GitHub that contains it, so I have put in a minus sign into it, you should remove the minus sign before using, and do not check in code that has this key in it)

Keys should be stored in environment variables

```
curl -i -H "Authorization: token
7aa146eafee094d3a7b1e81aa1d8fcb0eec8b91-0
https://api.github.com/user/repos
```

If you get a 401 error, then you need to either:

- 1. Remove the minus and save file.
- 2. Recreate the API key and put it into the code
- 6. Write python script that will get the information from a private repository called

## datarepresentationstudent/aPrivateOne

And output the result to a file

```
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