

Interacting with **GitHub** using **Google Colab**

- ❖ Need GitHub account; logged in.
- ❖ Need Google Colab account (gmail); logged in.

1) Accessing program files from someone's GitHub's account to your google colab's account:

- ❖ Open your google colab account with your gmail.
- ❖ Open the person's github file which you need to load.
- ❖ Copy the address (url) of the github file from address bar.
- ❖ On your google colab page:
 - Click on "**File-> Open notebook**"
 - Click on "**GitHub**" tab on the top and paste the file address (url).
 - Click on search symbol at right hand side of pasted address.
- ❖ Start editing the file (but cannot save to the same location if the you are not a collaborator for this repository). So click on "**File->Save a copy as a GitHub Gist**" and then the new opened file can be saved to your desired location.

2) Accessing "csv" file form someone's github account to your google colab program files:

Way 1:

- ❖ Open the “**Raw**” csv file on github (Open the csv file and click on “**Raw**” option on right hand side over the file)
- ❖ Copy the address (url) of the csv file from address bar of the browser.
- ❖ In the program code, write as follows:

```
> Import io
> Import pandas as pd
> df=pd.read_csv(url) #this accesses that csv file
```

Way 2:

- ❖ Download the csv file from github link to your local system.
- ❖ Upload the csv file in local system to your program using the following line in your program code:

```
> From google.colab import files
> uploaded=files.upload()
```

- ❖ Now browse those file from your local device to your google colab file store (can seen in left handside)
- ❖ Now load the csv file as dataframe into your code by its name (“csv_file_name”)

```
> df=pd.read_csv("csv_file_name")
```

3)Saving your program file to github account:

Saving your file to someone’s github account repository is only possible when your are added as a “collaborator” for that repository.
You can always save to your own github account repository.

- ❖ Click on “**File->Save a copy in GitHub**”
- ❖ Select the desired location of github branch

- ❖ Write the new name of the file like “my_prog.py” or “newFolder/my_prog.py” (this will create a new folder newFolder and save your file there).
- ❖ Click “ok”

4) Collaborator invitation sending:

- ❖ Go to repository.
- ❖ Click **settings** on top.
- ❖ Go to **manage access**.
- ❖ At the bottom of page add collaborator.

5) Collaborator invitation accepting:

- ❖ Go to mail and accept invitation.
- ❖ Or check notification in github for invitation.
- ❖ Or go to
“https://github.com/orgs/PUT_ORGANIZATION_NAME_HERE/invitation” in
browser