

DS002.2.2

1. Get a copy of the book?
2. Everyone signed up with [Deepnote](#) and GitHub?
3. Could you access [Monday's lecture](#) on Descript?

Today

go over working in Deepnote with code from GitHub


+ introduce your assignment for Monday.

Process:











1. GitHub App link: <https://github.com/apps/deepnote>
2. Get repo address.
3. Connect to repo inside of Deepnote

DS002.2.2 lab: Working with GitHub in Deepnote

1. Link your GitHub repository to Deepnote
2. Import introduction.py to your Deepnote project
3. Play with the data (lab)
4. Make a change to introduction.py
5. Push changes from Deepnote to GitHub repository

 BETA


Scripps College DS02 / INTRO_workingwithGithub ▾


 OFF

GitHub

Only one repository can be linked at a time. Unlink other repositories to continue.

[How to use GitHub in Deepnote?](#)

 scrippscollege/DS_002 ×

 !git c.

Cloning
remote:
remote:
remote:
remote:
Unpacki

from d

What
dir(

need
help

what
print(

[['A1'

But first, Presentation sign up form!

Sign up for a presentation here: <https://forms.gle/AyEUcQ5yJRXJWvCe6>

Use this form to select a date and topic to make a 5-10 minute presentation to the class. You may work alone or in teams of less than 4.

Example: on 02/27 you might tell us why we will want to use SciPy's statistical functions instead of writing our own. What advantages does SciPy offer: speed? convenience? interoperability? all three? Then you might show examples in a Deepnote notebook.

01/31 Visualizing Data / Linear Algebra

Your answer

02/07 Statistics / Probability

Your answer

02/14 Hypothesis & Inference / Gradient Descent

Your answer

02/21 Getting Data / Working with Data

Your answer

02/28 Machine Learning / K-Nearest Neighbors

Your answer



Link your GitHub repository to Deepnote

Follow this guide: <https://docs.deepnote.com/integrations/github>



Link this project to a repository to use its code, and make commits and pull requests to it.

Any project collaborator will be able to read and write to the project repository using the generated deploy key.

[How to use GitHub in Deepnote?](#)

`https://github.com/deepnote/example`

 **Link GitHub Repository**

Open the Deepnote notebook that we created on Monday

Import your code and run `help(intro)`

● Ready ▶ Run notebook ⌵ ⌂

```
from dgoodwin import introduction as intro

# What's in introduction ?
# dir(intro)

# need some help?
help(intro)
```

✓

Help on module dgoodwin.introduction in dgoodwin:

NAME

dgoodwin.introduction

DESCRIPTION

This is code for the introduction chapter. As such, it stands alone and won't be used anywhere else in the book.

FUNCTIONS

data_scientists_who_like(target_interest)

Find the ids of all users who like the target interest.

foaf_ids_bad(user)

foaf is short for "friend of a friend"

Copy **this data** to introduction.py

This data came from the form you filled out last week.

> Gist

```
schools = ["Pomona", "Scripps", "Scripps", "Scripps", "CMC", "Scripps",  
           "Scripps", "Scripps", "Pitzer", "Pitzer", "Scripps", "Scripps",  
           "Pomona", "Pomona", "Scripps", "Pitzer", "Scripps", "Pomona",  
           "Pomona", "Scripps"]
```

add, commit, and push your changes

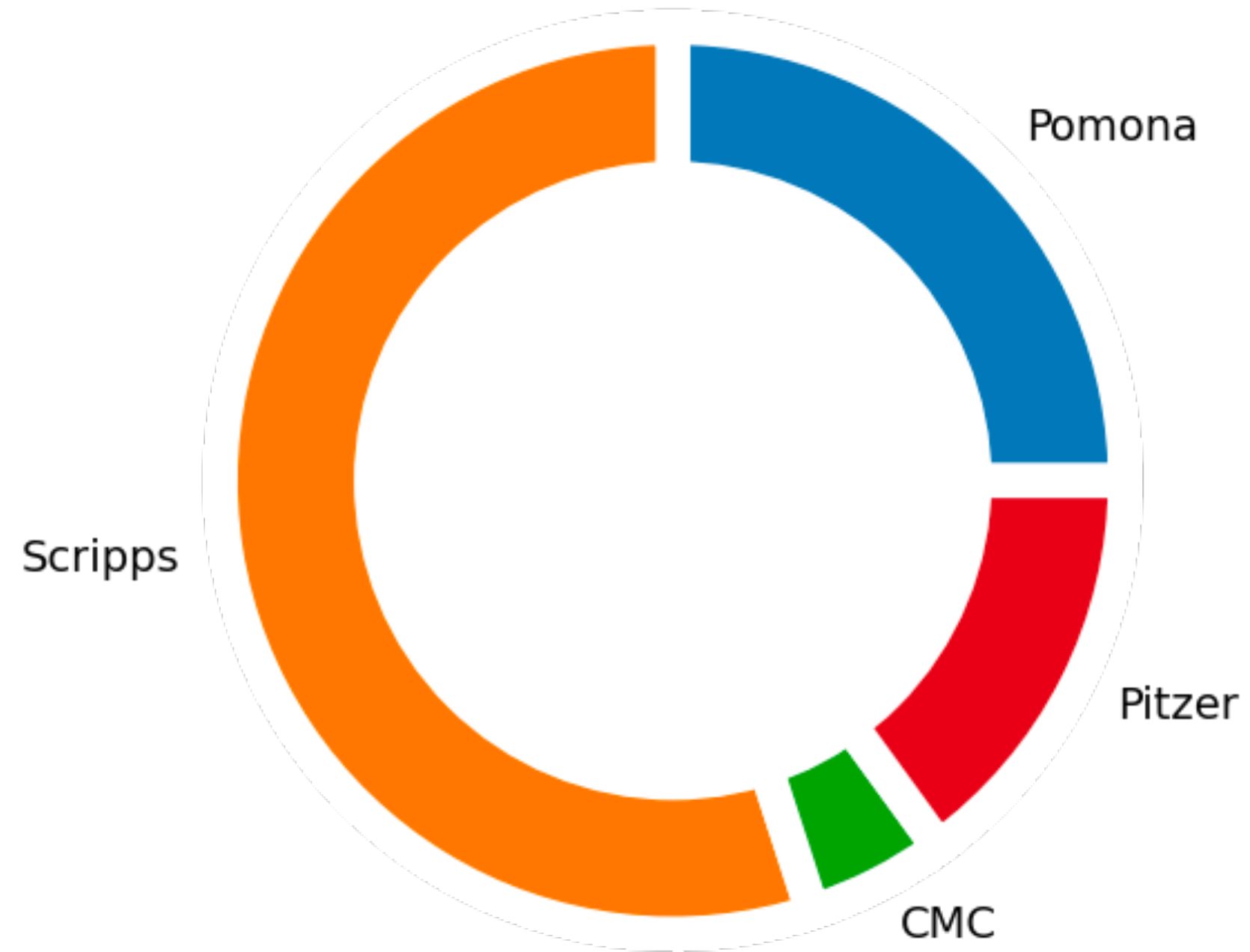
Deepnote allows you to edit, save, and commit changes to your GitHub repository. Let's try it out!

```
(venv) root@deepnote:~/work/dgoodwin # git add introduction.py
(venv) root@deepnote:~/work/dgoodwin # git commit -m "adding new data"
[main 049e664] adding new data
 1 file changed, 5 insertions(+)
(venv) root@deepnote:~/work/dgoodwin # git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 358 bytes | 358.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/scrippscollege/DS_002.git
   cfd400c..049e664  main -> main
```


Cycle your
notebook, re-import
your repository,
import your new
data

we can make a chart to
celebrate! 🎉

Number of students from each school



Homework: Banded Birds data

Finish the table *with answers* for Monday.

DS002.2.2_assignment.ipynb

Q

A

How many sites are there?

How many birds were counted at the 7th site?

How many birds were counted at the last site?

What is the total number of birds counted across all sites?

What is the average number of birds seen on a site?

How many birds were counted on sites with codes beginning with C?