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

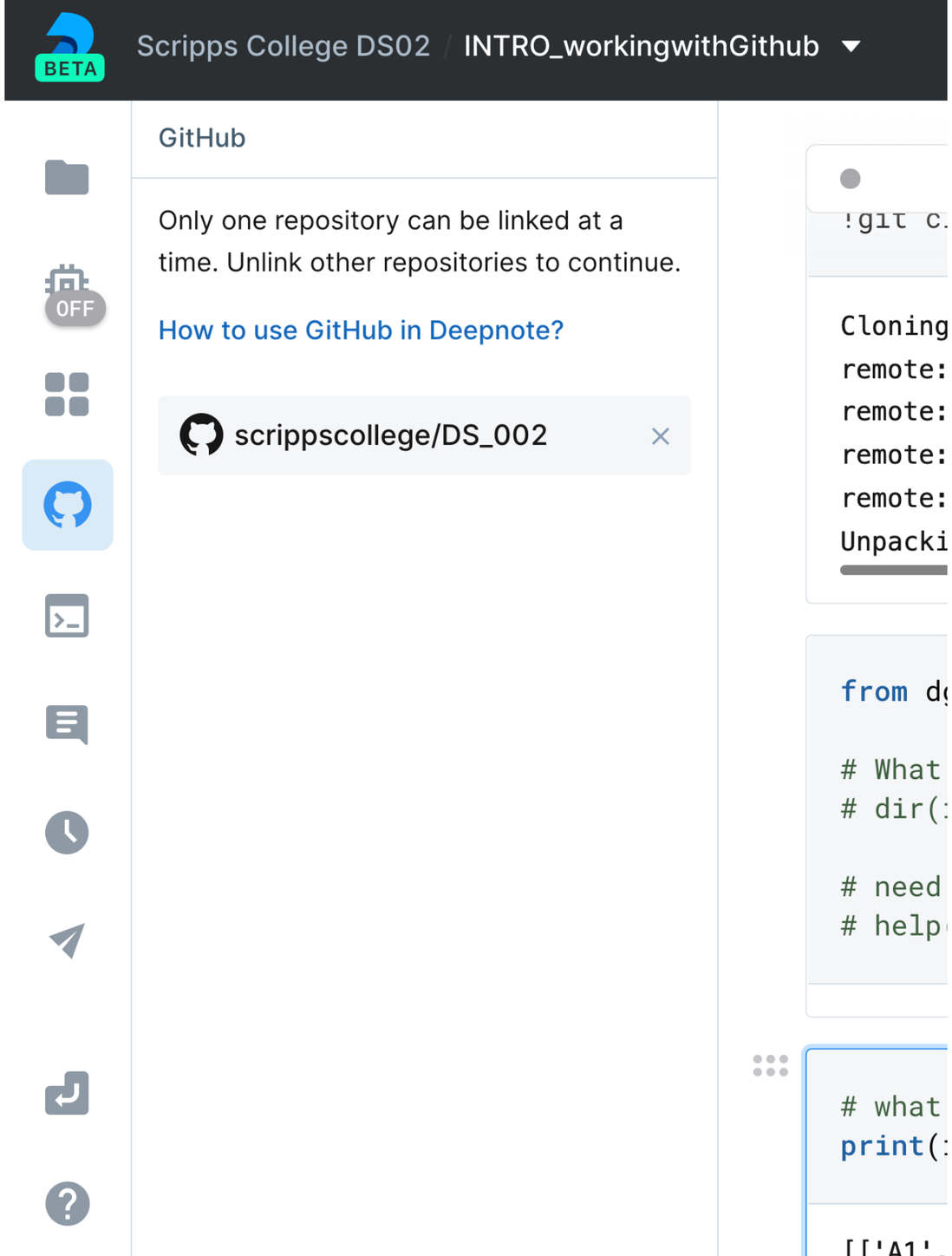
+ introduce your assignment for Monday.

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

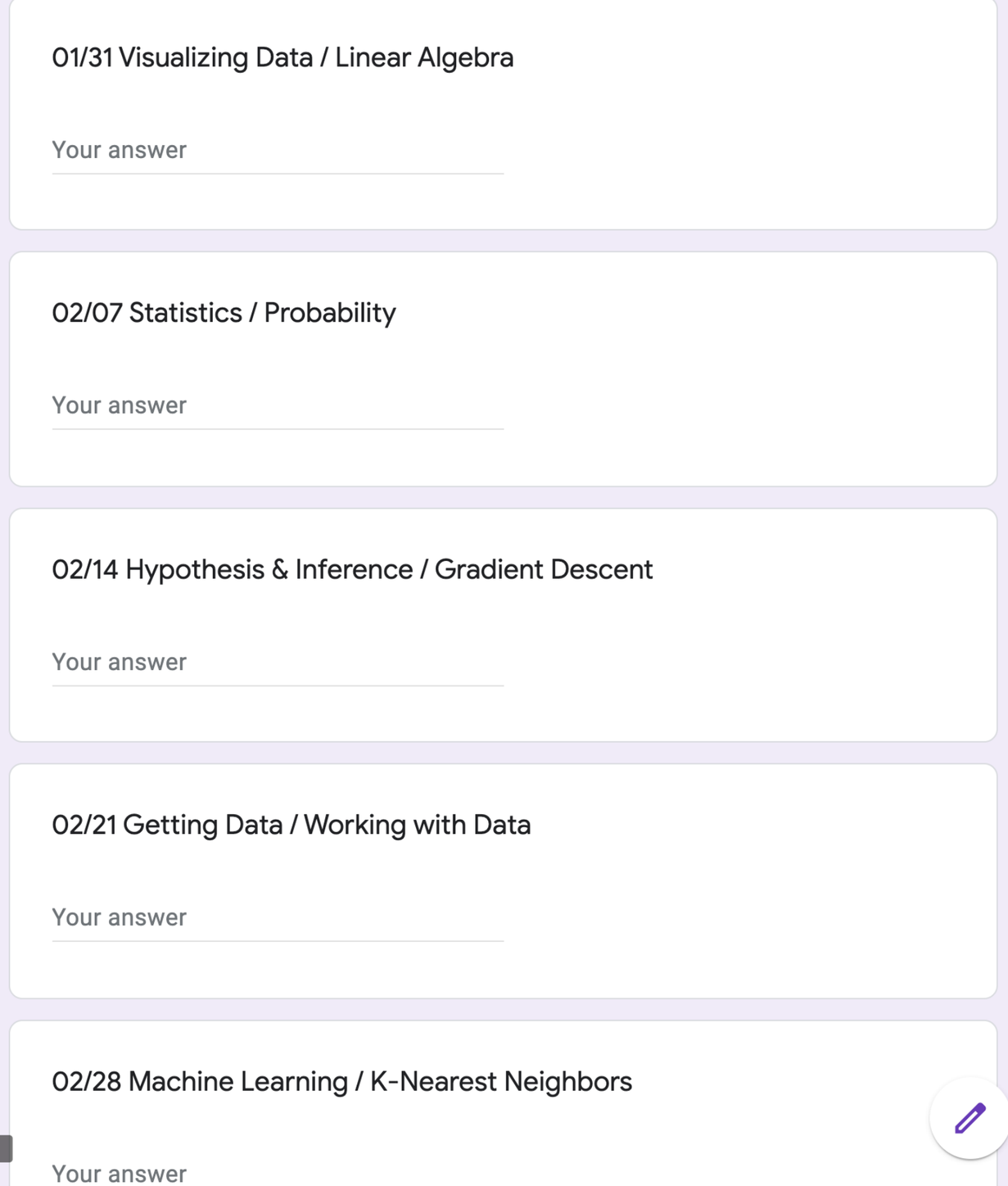


But first, Presentation sign up form!

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

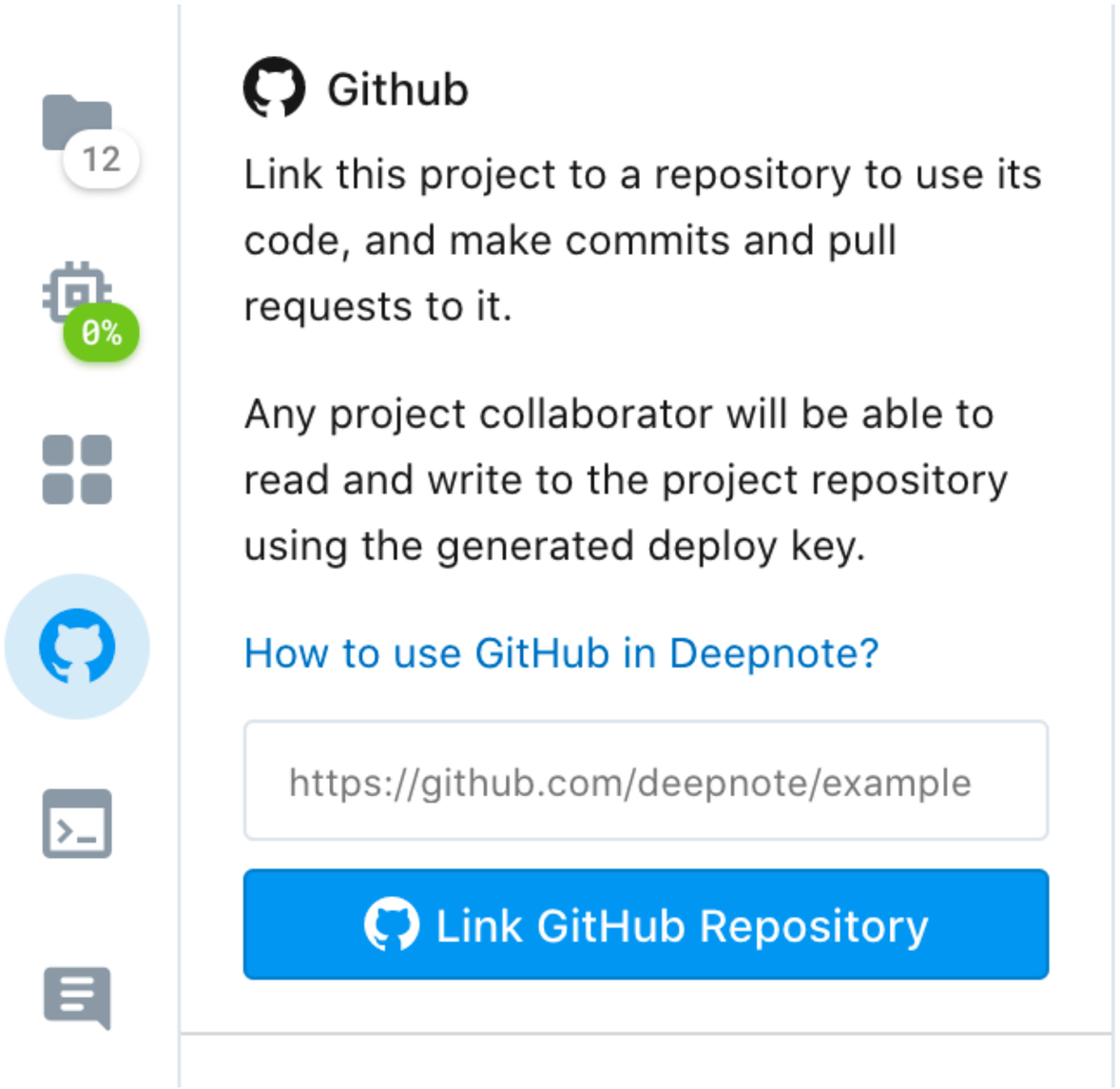
Use this form to select a date and topic to make a 5-10 minute presentation to the class. You may work alone or in teams of less than 4.

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.



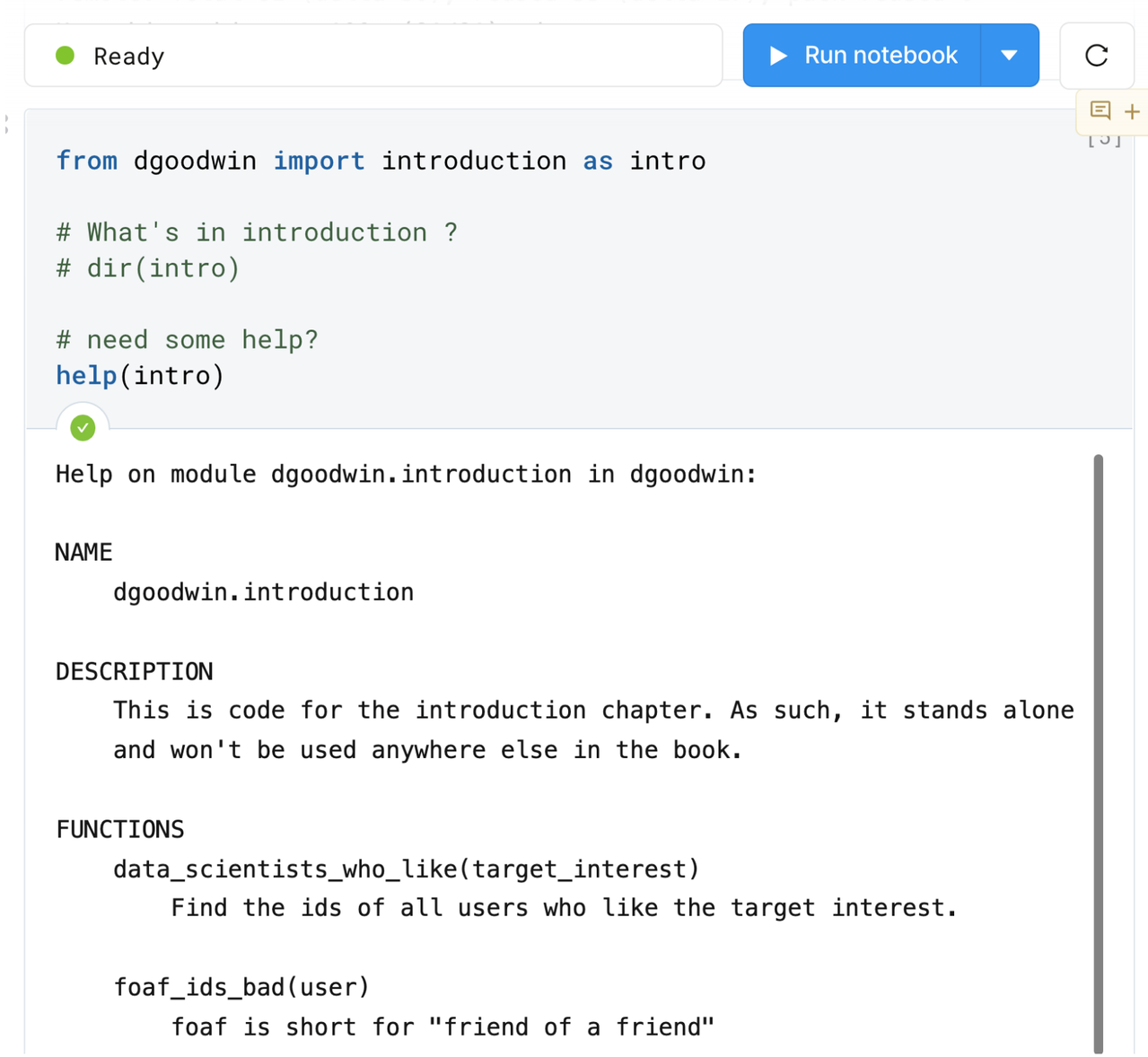
Link your GitHub repository to Deepnote

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



Open the Deepnote notebook that we created on Monday

Import your code and run `help(intro)`



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"]
```

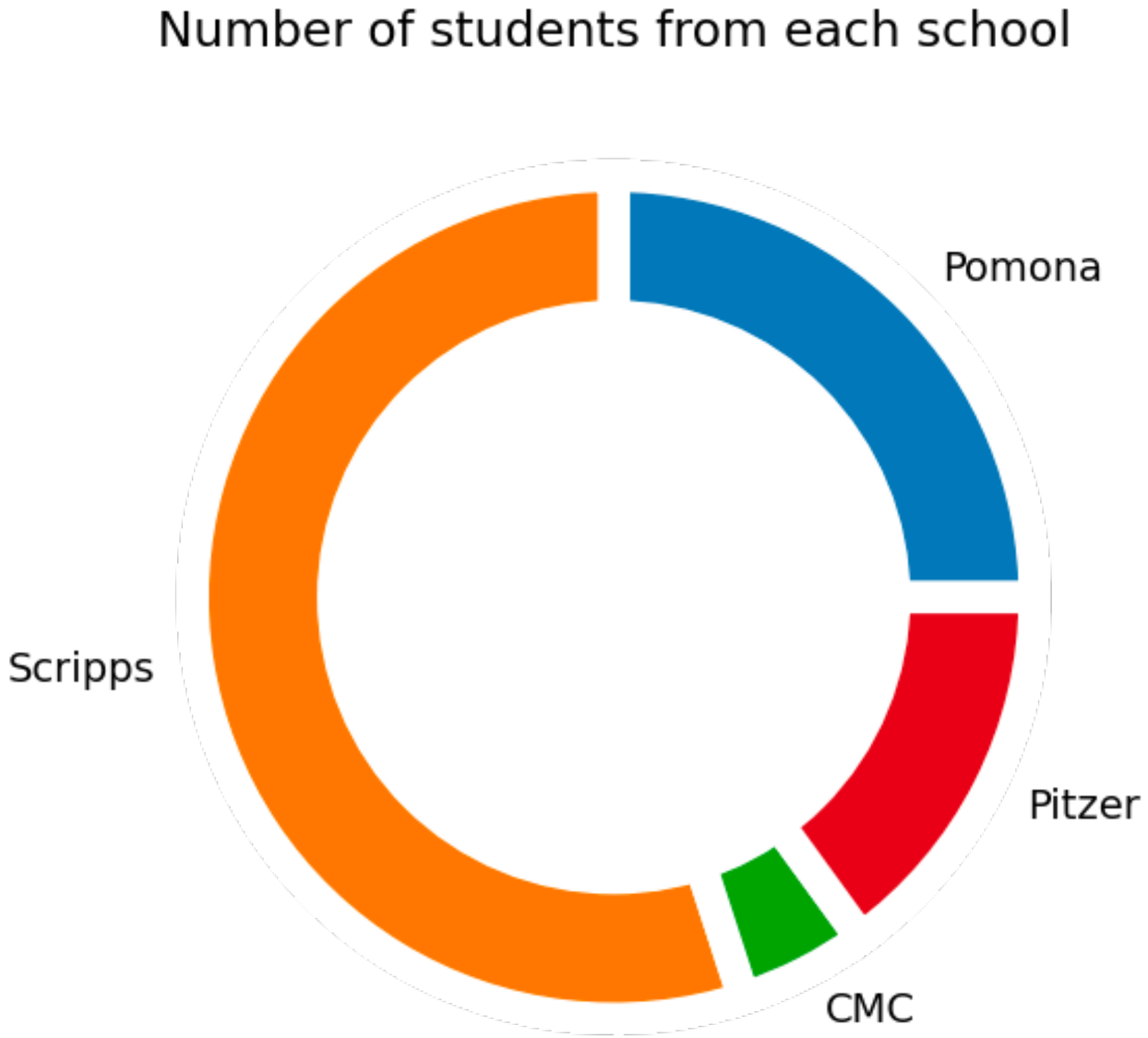
add, commit, and push your changes

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! 🎉



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?	