Lecture 4: numpy, Git/GitHub

LING 1340/2340: Data Science for Linguists

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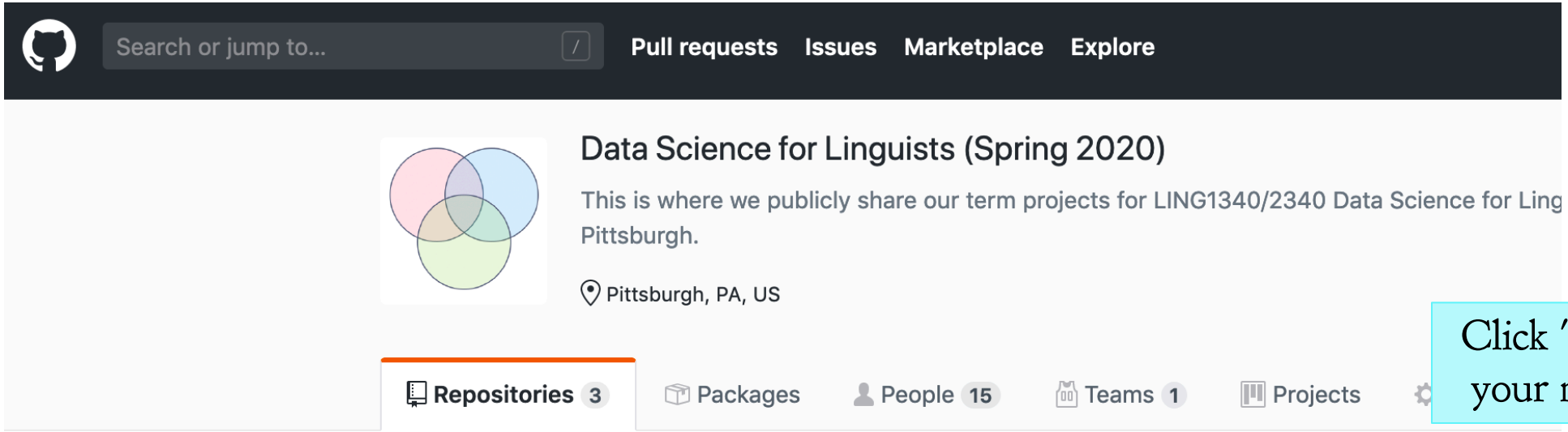
Objectives

- GitHub class organization
  - Housekeeping our repos and forks
- To-do2 review: study notes in JNB
- Python's `numpy` library

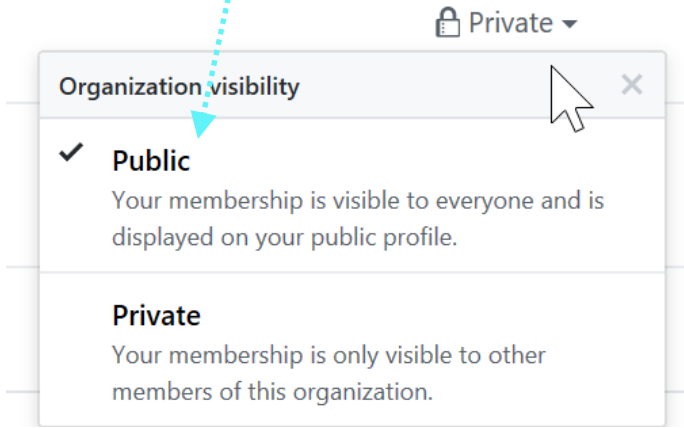
- Tools:
  - Git and GitHub
  - Jupyter Notebook

GitHub Class Organization

- https://github.com/Data-Science-for-Linguists-2020



Click "People", and make your membership public



- So we can:
  - have everyone in one spot.
  - have all class materials in one spot.
  - have everyone's term project in one spot.
  - share *private* repos as a group.

Shall we try re-forking?

- On GitHub
  - **Delete** your forks: HW1-Repo and Class-Exercise-Repo.
  - Head to our GitHub class organization. **Fork** the two repositories.
- On your laptop
  - Your local repos' remote setting (`git remote -v`):
    - The "**origin**" URL is still the same.
    - The "**upstream**" URL can be updated:
  - In HW1-Repo/ folder, execute:

```
git remote set-url upstream https://github.com/Data-Science-for-Linguists-2020/HW1-Repo.git
```

  - In Class-Exercise-Repo/ folder, execute:

```
git remote set-url upstream https://github.com/Data-Science-for-Linguists-2020/Class-Exercise-Repo.git
```

Back to Class-Exercise-Repo

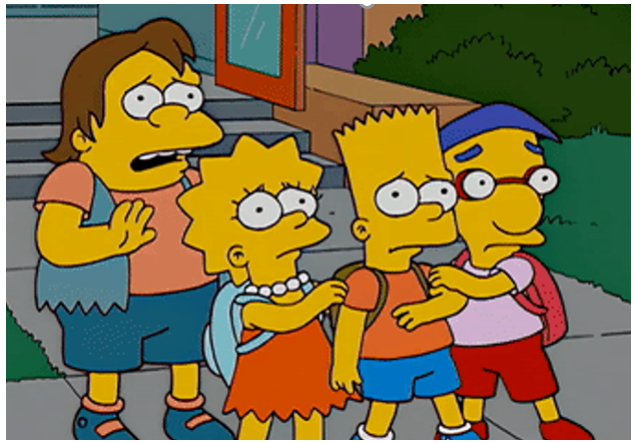
- https://github.com/Data-Science-for-Linguists-2020/Class-Exercise-Repo
- To-do2
  - Who has the best study notes?

numpy practice with the Simpsons

Activity 1
40 minutes

- In Class-Exercise-Repo, `activity1/` folder:
  - You will find `numpy_simpsons_BLANK.ipynb`
  - Make a copy for yourself as `numpy_simpsons_YOURNAME.ipynb`:
    - `cp xyz_BLANK.ipynb xyz_jevon.ipynb`
  - Let's get to work!

`cp file1 file2`
makes a copy of file1 as file2.



Wrapping up

- To-do 3: due on Tuesday.
  - Study pandas, make your own JNB.
  - Try two spreadsheet files, one your choice. (Make it small!)

- Start thinking about project ideas