Lecture 5:
numpy, Git/GitHub

LING 1340/2340: Data Science for Linguists

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Objectives

▶ To-do3 review: study notes in JNB, git and GitHub

▶ Python's numpy library hands-on practice

▶ Tools:
  ◆ Git and GitHub
  ◆ Jupyter Notebook

First thing to do every class


```
MINGW64:/c/Users/narae/Documents/Data_Science                          —    □    ✕

narae@X1Yoga MINGW64 ~
$ cd Documents/Data_Science/

narae@X1Yoga MINGW64 ~/Documents/Data_Science
$ pwd
/c/Users/narae/Documents/Data_Science

narae@X1Yoga MINGW64 ~/Documents/Data_Science
$ ls
Class-Exercise-Repo/  languages/

narae@X1Yoga MINGW64 ~/Documents/Data_Science
$ ls -la
total 12
drwxr-xr-x 1 narae 197121 0 Jan 10 14:30 ./
drwxr-xr-x 1 narae 197121 0 Jan  8 18:33 ../
drwxr-xr-x 1 narae 197121 0 Jan 10 14:30 Class-Exercise-Repo/
drwxr-xr-x 1 narae 197121 0 Jan  8 18:34 languages/

narae@X1Yoga MINGW64 ~/Documents/Data_Science
$ |
```

```
pwd
cd dir1/dir2
cd ..
cd
ls
ls -la
```

Hit TAB for auto-completion.

Up ⬆ / Down ⬇ arrow to use previous command

Ctrl + c
to cancel

Last step: Sync your repos
(**Class-Exercise-Repo** especially)

Back to Class-Exercise-Repo

▶ https://github.com/Data-Science-for-Linguists-2025/Class-Exercise-Repo

  ◆ Sync from the upstream repo!

▶ **To-do3**

  ◆ Git and GitHub work flow: are you getting the hang of it?

  ◆ Who has the best study notes?

numpy practice with the Simpsons

▸ In Class-Exercise-Repo, `activity2/` folder:

- ◆ You will find `numpy_simpsons_BLANK.ipynb`
- ◆ Make a copy for yourself as `numpy_simpsons_YOURNAME.ipynb`:
  - ◆ `cp xyz_BLANK.ipynb xyz_narae.ipynb`
- ◆ Let's get to work!

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

Wrapping up

▶ To-do 4: due next Wed.

 ◆ Study `pandas`, make your own JNB.

▶ Start thinking about project ideas

 ◆ Details on "Term Project Guidelines" page

▶ Office hours are now fixed. Noted on home page.

▶ Asking questions

 ◆ Use MS Teams. Let's all help each other!

 ◆ For private questions, email or MS-Teams-chat <u>both me and Riley</u>.

▶ Linguistics Dept Colloquium TODAY @3pm, 208 CL

 ◆ By David R. Mortensen: https://www.cs.cmu.edu/~dmortens/

▶ PyLing next Wed (1/22) @6pm, 2818 CL