Lecture 10: Git/GitHub

LING 1340/2340: Data Science for Linguists Na-Rae Han

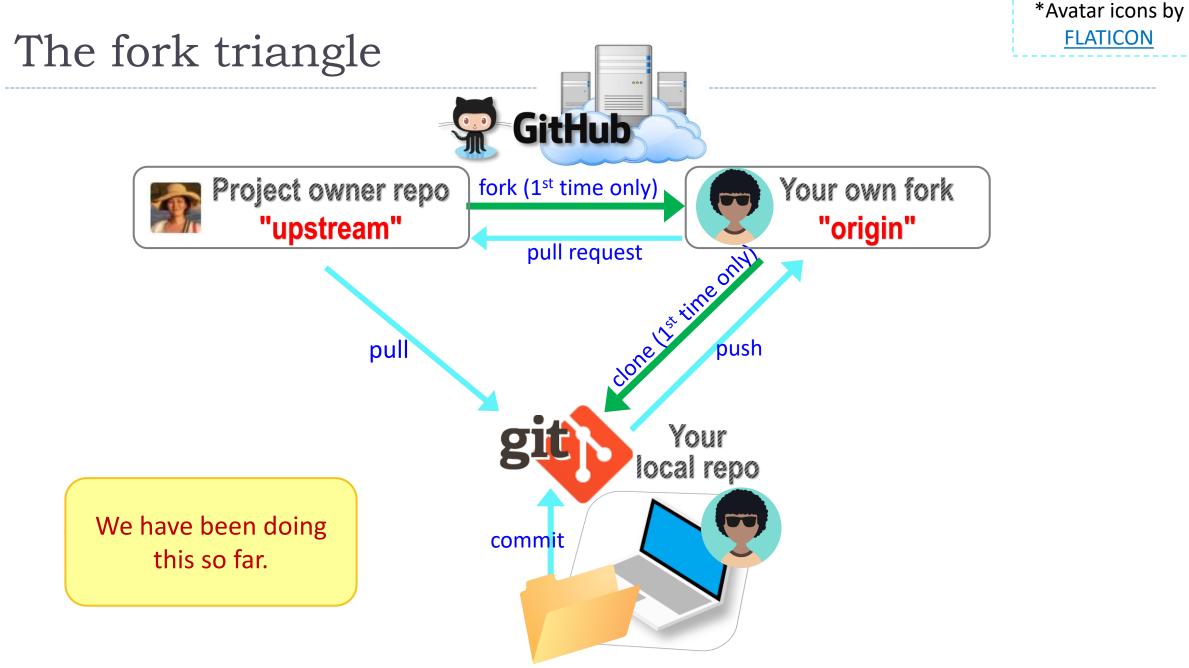
Objectives

Git/GitHub

• Collaborating on the *same* repo – push access

HW3 review: Machine learning with ETS data

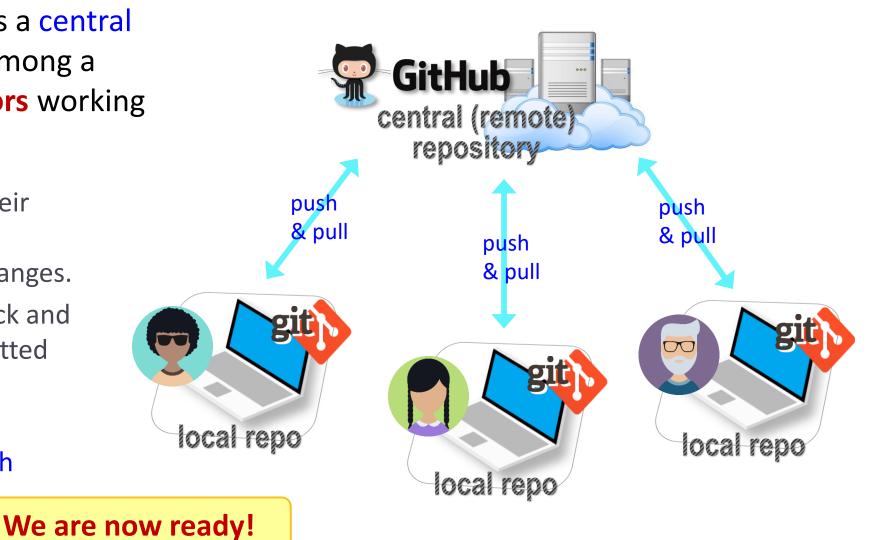
- Task 2: Prompt classification
- Task 1: L1 classification
- Task 3 \rightarrow Thursday
- ← Share your HW3! Copy your HW3 into Class-Exercise-Repo!





GitHub: a social, remote repository

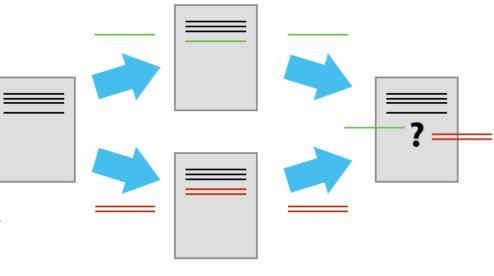
- GitHub also works as a central remote repository among a group of collaborators working on a shared project.
 - Everyone works on their own *local* copy of the repository, making changes.
 - Git is able to keep track and merge changes submitted by everyone.
 - Everyone is an equal collaborator with push (=write) access.



Introducing... "Class-Lounge"

- https://github.com/Data-Science-for-Linguists-2022/Class-Lounge
- Public.
- Everyone is listed as a "collaborator".
 - Meaning, everyone has push access.
 - No need to fork: pull and push directly.
 - We will also truly collaborate: edit shared files.
- This means: CONFLICTS
 - Na-Rae's tutorial on Git conflicts:
 - <u>https://github.com/mcdonn/LSA2019-Reproducible-</u> <u>Research/blob/master/linking_git_and_github.md#conflicts</u>

	 C A github.com/Data-Science-for-Linguists-2022/Class-Lounge Search or jump to Pull requests Issues Marketplace Explore 						
	Data-Science-for-Linguists-2022 / Class-Lounge Public						
	<> Code	⊙ Issues	រ៉ា Pull requests	➢ Actions	🗄 Projects	🕮 Wiki	③ Security



When there is a conflict

After you pull, Git changes your file, which then looks like:

<<<<<< HEAD There was copyright information here.

======

>>>>>> c954b23f86b629c569223e2c0c38e32a0d870d22

"RTlexdec", "RTnaming", "Familiarity", "Word", "AgeSubject", "WordC tenFrequency", "WrittenSpokenFrequencyRatio", "FamilySize", "Deri y", "InflectionalEntropy", "NumberSimplexSynsets", "NumberComplex thInLetters", "Ncount", "MeanBigramFrequency", "FrequencyInitialD elV", "ConspelN", "ConphonV", "ConphonN", "ConfriendsV", "Confriend ConffN", "ConfbV", "ConfbN", "NounFrequency", "VerbFrequency", "CV" Frication", "Voice", "FrequencyInitialDiphoneWord", "FrequencyInitialD lable", "CorrectLexdec" You must **manually edit this file** and tidy it up. (== resolve conflict)







- 1. Everyone was already added to the repo as a collaborator.
- 2. Clone the repo to your laptop.
- 3. Edit "animals.md", add your line.
- 4. Do your usual local git routine: adding, committing.
- 5. Try pushing. It is likely you have a conflict (someone else pushed in the meantime) and Git tells you to pull first.
- 6. Pull to receive the new updates.
- 7. Open "animals.md". Resolve conflict.
- 8. Go back to step 4. Hope you were quick enough this time!

Wrapping up

- To-do #10: Visit your classmates
- > 2^{nd} progress report \rightarrow pushed back to next Thursday (3/24)
- Careers in Language Data" symposium on 4/1:
 - https://www.linguistics.pitt.edu/event/careers-language-data-symposium

