Lab #1 - GITting started with Spatial Data Sets

Albert Kochaphum Week 1 | April 1st, 2021

Today's Agenda

- 1.1. Git down with GitHub
- 1.2. "Hello World!" QGIS Bootcamp
- 1.3. Group Project Time



Lab - 1.1 - Git down with GitHub

1.1. Objectives

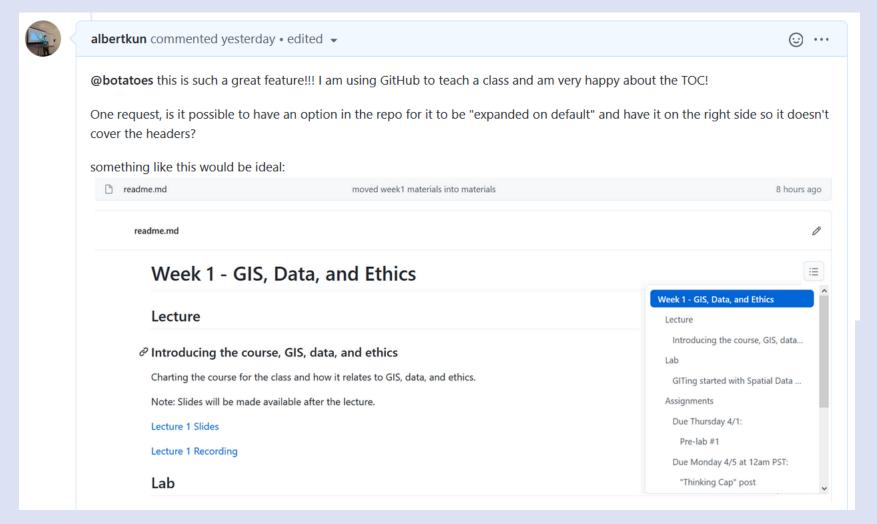
- 1. Clone Class Repo
- 2. Fork the Lab Assignment Repo

Both cloning and forking only needs to be done once!

1.1. What is GitHub?

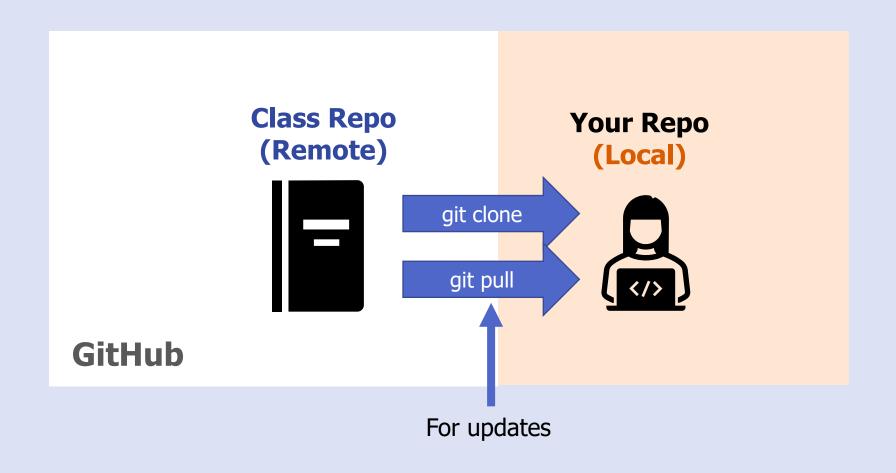
- It's a web site for using Git
- Git is software for tracking changes
- We will be submitting our assignments to GitHub using Git (Vis-à-Vis Vs Code)

1.1. Why GitHub?



Building software better together!

1.1.1 Cloning

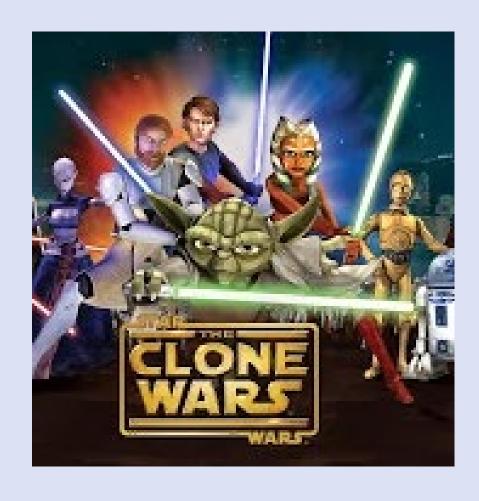


1.1.1 Git Cloning (the VS Code-sy way)

- 1. Start VS Code
- 2. Click "Clone repository"
- 3. Search for the class repo or add it: https://github.com/albertkun/21S-ASIAAM-191A.git
- 4. Select a folder
- 5. Open the cloned repo.
- 6. To update new files: Run git pull in the VS Code terminal

1.1.2 We can't FORKet about forking!

1.1.2 Clones vs. Forks





1.1.2 Clones vs. Forks

Clones



"Download" to my machine



When you need to contribute to the original repository



Keeps your local changes to synced to the web (remote)



Used for Class repo

Forks



"Copy to my cloud drive"



When contributing to the original repository is optional



Can still connect local changes to the original upstream (remote) without adding your changes



Used for Lab Assignments Repo

1.1.2 Forks and Clones work together

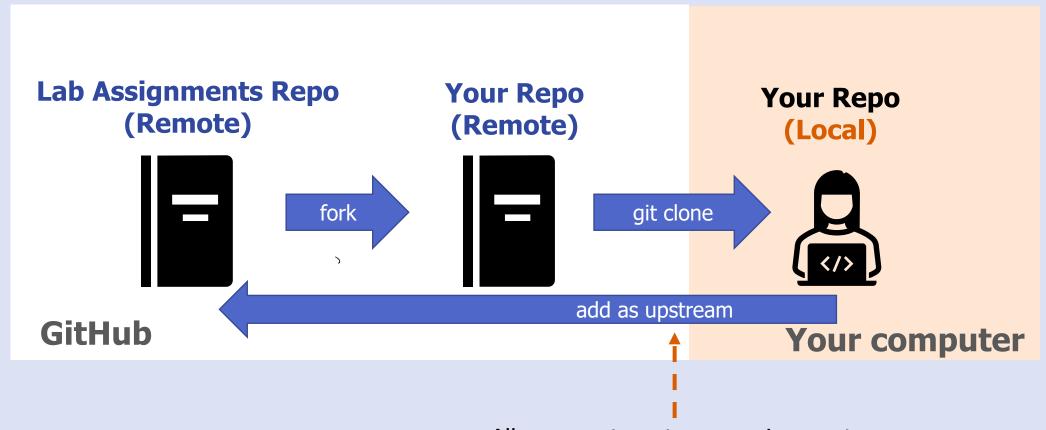
Fork



Profit



1.1.2 Forking the Lab Assignments Repo

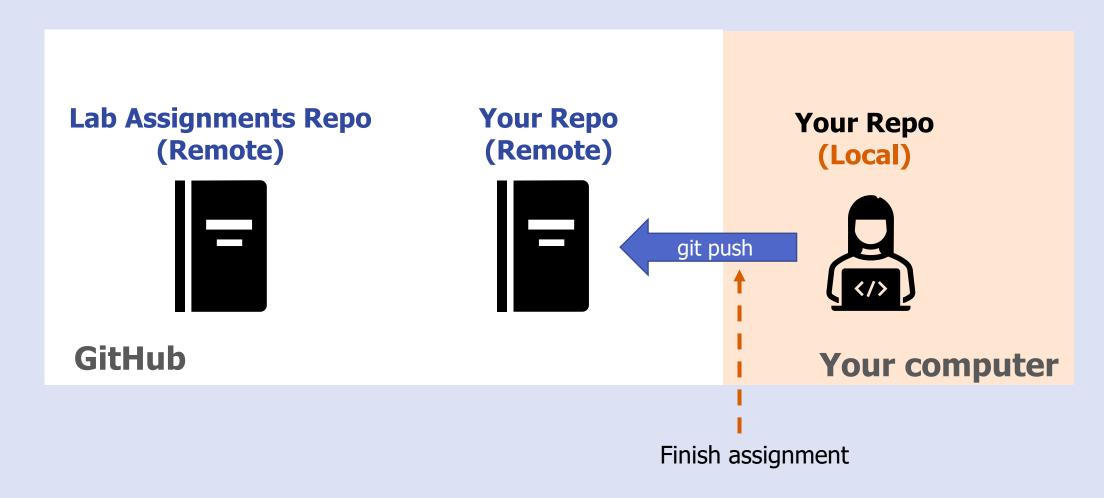


Advanced method:

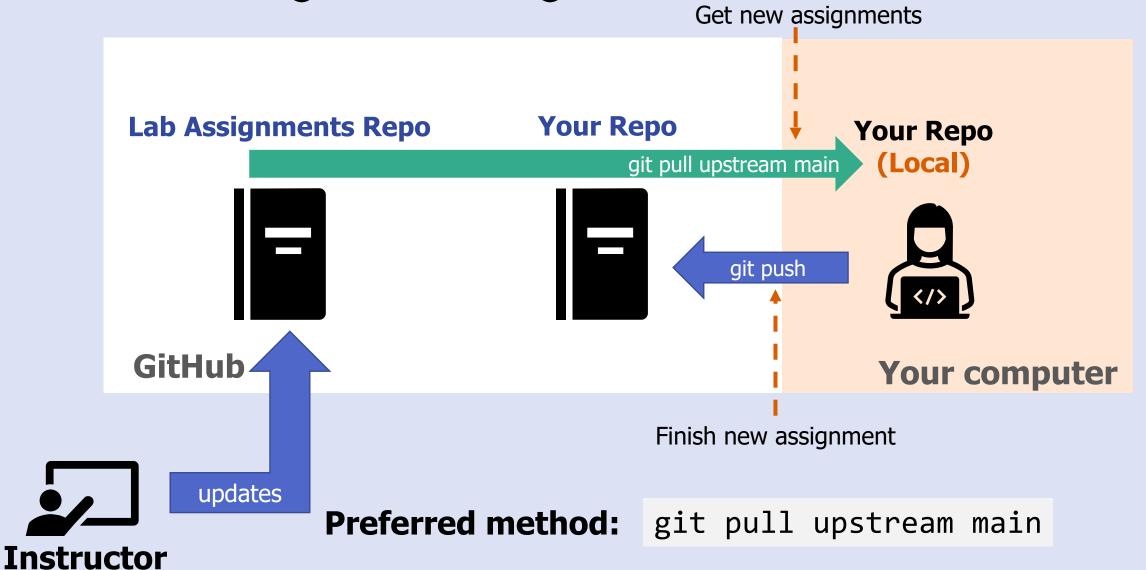
Allows you to get new assignments

git remote add upstream https://github.com/albertkun/21S-ASIAAM-191A-Assignments.git

1.1.2 Submitting Lab assignments

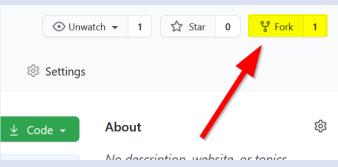


1.1.2 Getting new assignments

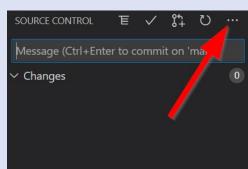


1.1.2 Git Forking (the easy-ish way)

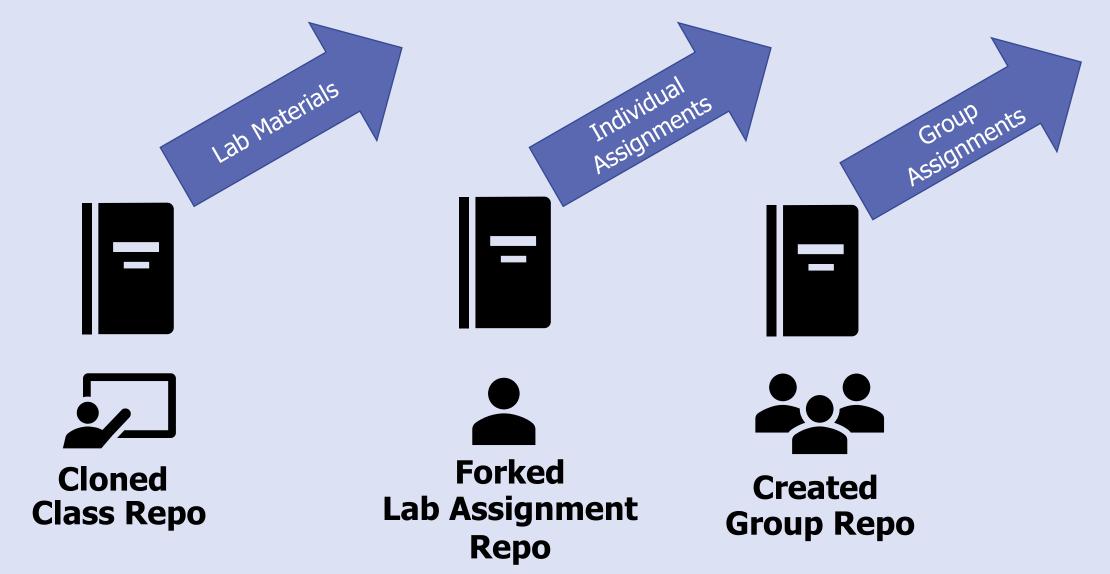
- Go to the Lab Assignment Repository: <u>https://github.com/albertkun/21S-ASIAAM-191A-Assignments</u>
- 2. Click "Fork"
- 3. Start VS Code
- 4. Clone your Forked repository
- 5. Add Remote Repository
- 6. git push when you are finished with labs
- 7. git pull remote upstream for new labs







Summary of repositories

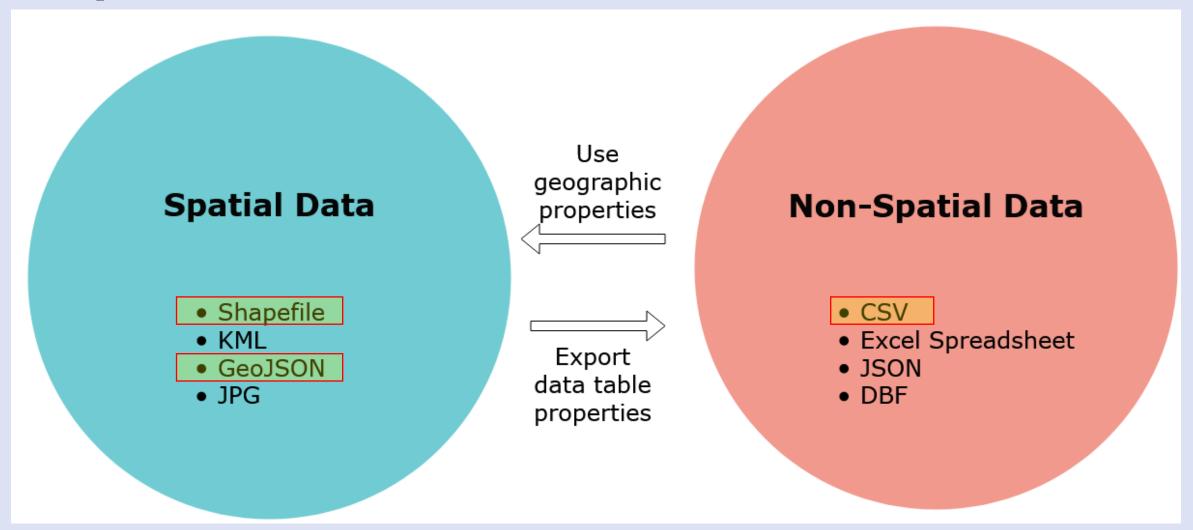


Lab - Part 2 - Spatial Data Management (QGIS)

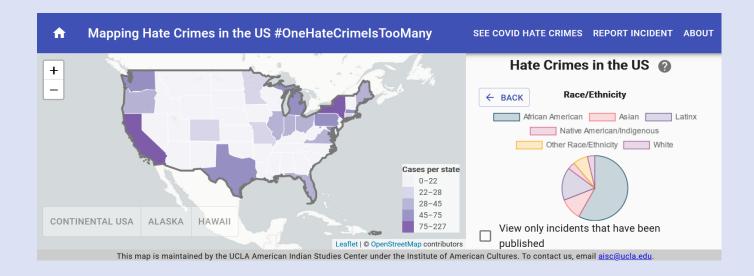
Objectives

- 1. Add datasets
- 2. Calculate a new field
- 3. Visualize data
- 4. Export data as GeoJSON

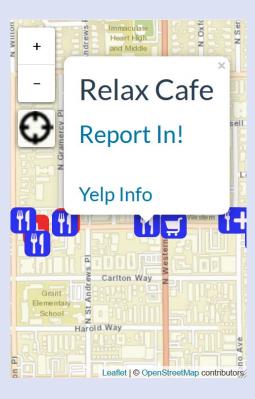
Spatial Data

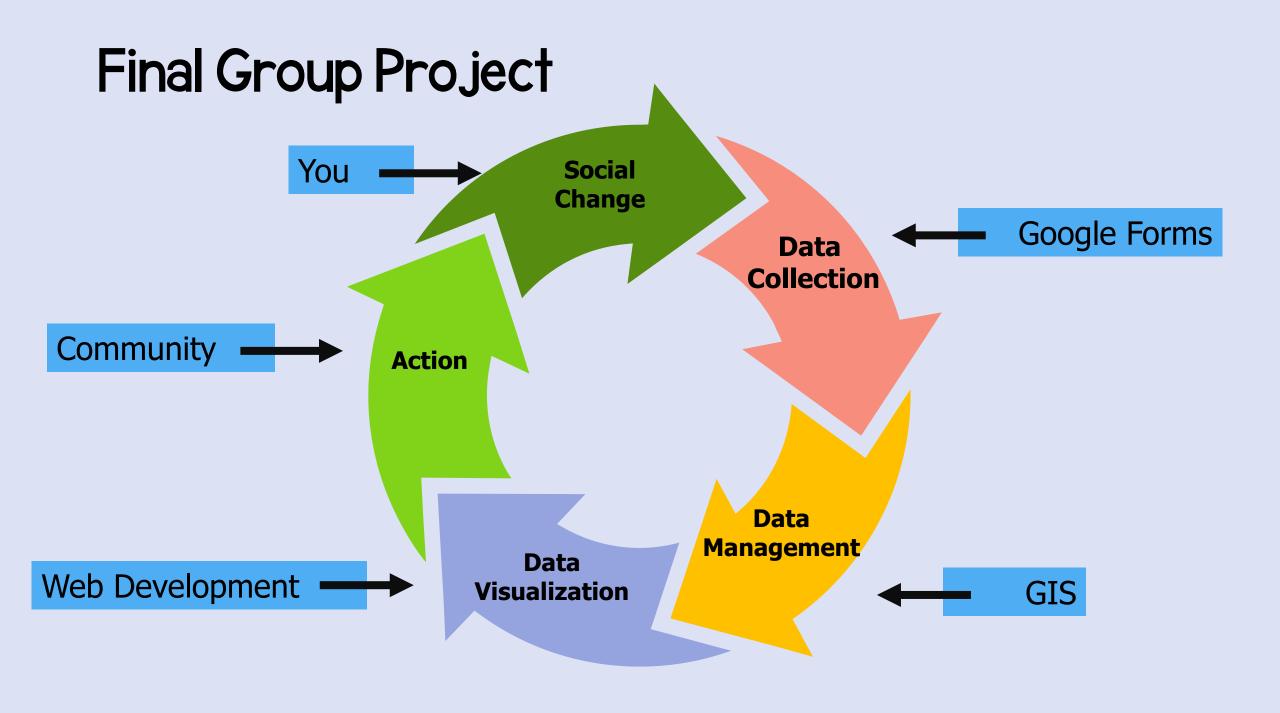


Lab - Part 3 -Final Group Projects









Final Group Project

	Identify issue	Create Survey	Test survey	Code application	Present application	
Assigned	Week 1	Week 2	Week 3	Week 4	Week 10	
Due	Week 2	Week 3	Week 4	Finals Week	Finals Week	

Final Group Project



Relies on community-based and/or crowd-sourced data



Only uses government or private data sources



Designed for a social good and/or political campaign



Designed for-profit or for self interest



Realigns power back to communities being harmed



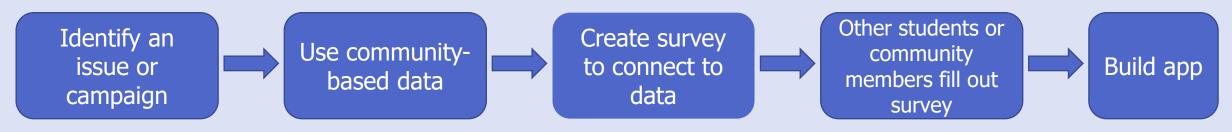
Reinforces corporate, academic, or governmental institutions

Final Group Project

Option A:

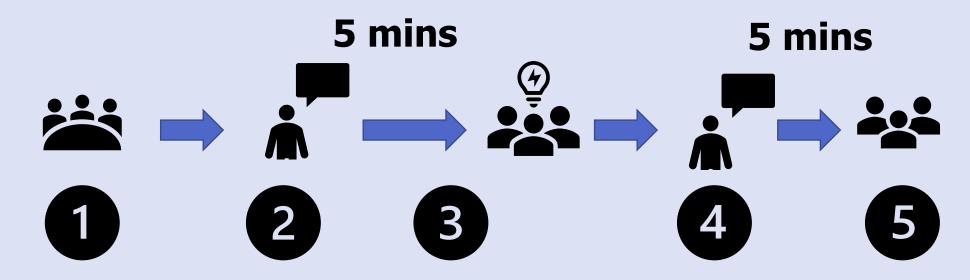


Option B:



Final Project Grouping

- 1. Pre-assigned breakout rooms
- 2. Message me to check out a different topic in another room
- 3. After 5 minutes I will move people who requested to change topics
- 4. After another 5 minutes I will move people again on request
- 5. Exchange contact information



Final Project Grouping

Breakout	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9
Topic	anti-imperialism	asian-american	climate change	education equity	health equity	mental health	racial equity	sustainability	transportation
Person 1	Nina Monet Reynoso	Adhvaith Vijay	Jason Nathanael Muljadi	Brian Zamora	Ericko Halim	Vanessa Ta	Nathakin Leepreecha	Ray Hsiao	Emily Pham
Person 2	Alize Magana	Ana Gu	Jess Xu	Christine Tran	Anny Rodriguez Viloria	Michelle Nguyen	Kathryn Greenler	Sam Karakas	Nina Long
Person 3		Rachel Chan		Lauren Valles	Wilny Duong				

https://docs.google.com/spreadsheets/d/1B5QTtB3iDFuOXT3z6kv1Dwr1eNku9AeVAHF55YEZXFs/edit?usp=sharing

Assignments

*Part one is due Monday at 12am!

Due Tuesday 4/6:

- 1. Post a "Thinking Cap" and two responses*
- 2. Read "Introduction to Critical Cartography"

Due Thursday 4/8:

- 3. Lab assignment #1
- 4. Group assignment #1
- 5. Pre-lab #2

Note: Unless specified otherwise, all assignments are due at the beginning of classes. Late assignments will be given half credit up to a week.