Lab #1 – GITting started with Spatial Data Sets

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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

Clone Class Repo 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?

albertkun commented yesterday • edited 👻					
@botatoes this is such a gre	at feature!!! I am using GitHub to teach a class and am very I	happy about the TOC!			
One request, is it possible to cover the headers?	have an option in the repo for it to be "expanded on default	t" and have it on the right side so it doe			
something like this would be	e ideal:				
🗅 readme.md	8 hours				
Week 1 - G	IS, Data, and Ethics				
Lecture		Week 1 - GIS, Data, and Ethics Lecture			
	Introducing the course, GIS, data Lab				
Charting the course for	GITing started with Spatial Data				
Note: Slides will be ma	Assignments				
Lecture 1 Slides	Due Thursday 4/1:				
Lecture 1 Recording	Pre-lab #1				
		Due Monday 4/5 at 12am PS1:			

Building software better together!





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





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



1.1.2 Forking the Lab Assignments Repo



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

1.1.2 Submitting Lab assignments





1.1.2 Git Forking (the easy-ish way)

1. Go to the Lab Assignment Repository: <u>https://github.com/albertkun/21S-ASIAAM-191A-Assignments</u>

🕸 Settings

Ł Code 🗸

About

⊙ Unwatch → 1 🏠 Star 0 😵 Fork 1

No description website or tonics

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- 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



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 ulterior motives



Realigns power back to communities being harmed



Reinforces corporate, academic, or governmental institutions

Final Group Project



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
Торіс	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.