

Lab #1 – GITting Used to Web Development and JavaScript

Albert Kochaphum

Week 1 | June 23rd, 2021

Today's Agenda

- 1. What is programming**
- 2. GITting down with GitHub**
- 3. Hello World of Web Development**



Lecture

Coding

~1:15p

2:20p

The pre-lab took:

Less than 1 hour



1-2 hours



More than 2 hours



The homework load was:

Too much



Just right

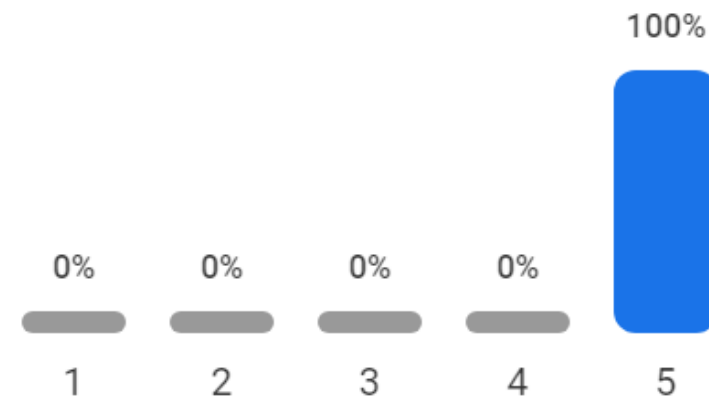


Too little



Rate the course reader reading:

Score: 5.0



1.1. What is programming?

Programming is a collection of instructions



1.1. What is programming?



"How do you get to UCLA?"

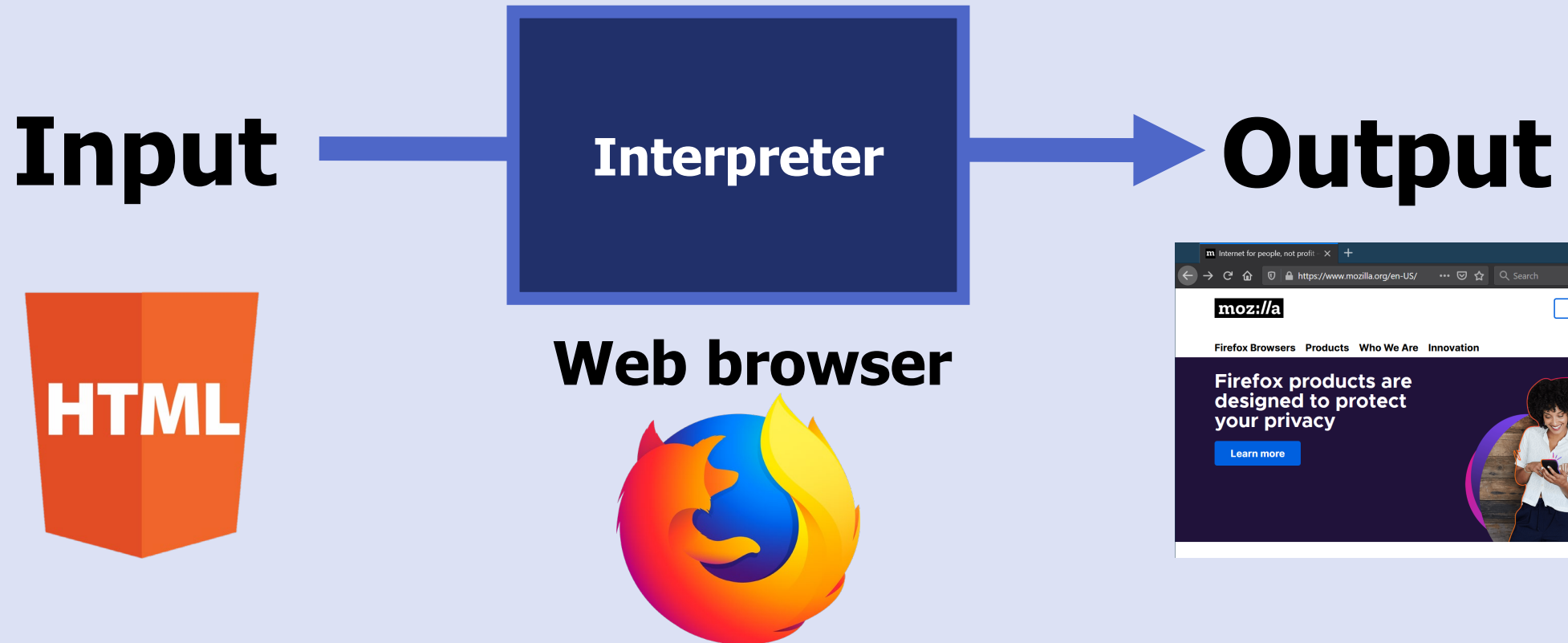
- "Leave SF heading north?"
- "Leave SF going south?"
- "Take the BART to Oakland?"
- "Fly to LAX?"

- Take Muni to Bart
- Take BART to Amtrak
- Amtrak to Westwood
- Arrive at UCLA

1.1. What is programming?



1.1. What is programming?



How to be a programmer

Step 1. Get a programming keyboard



How to be a programmer

Step 2. Run this loop:

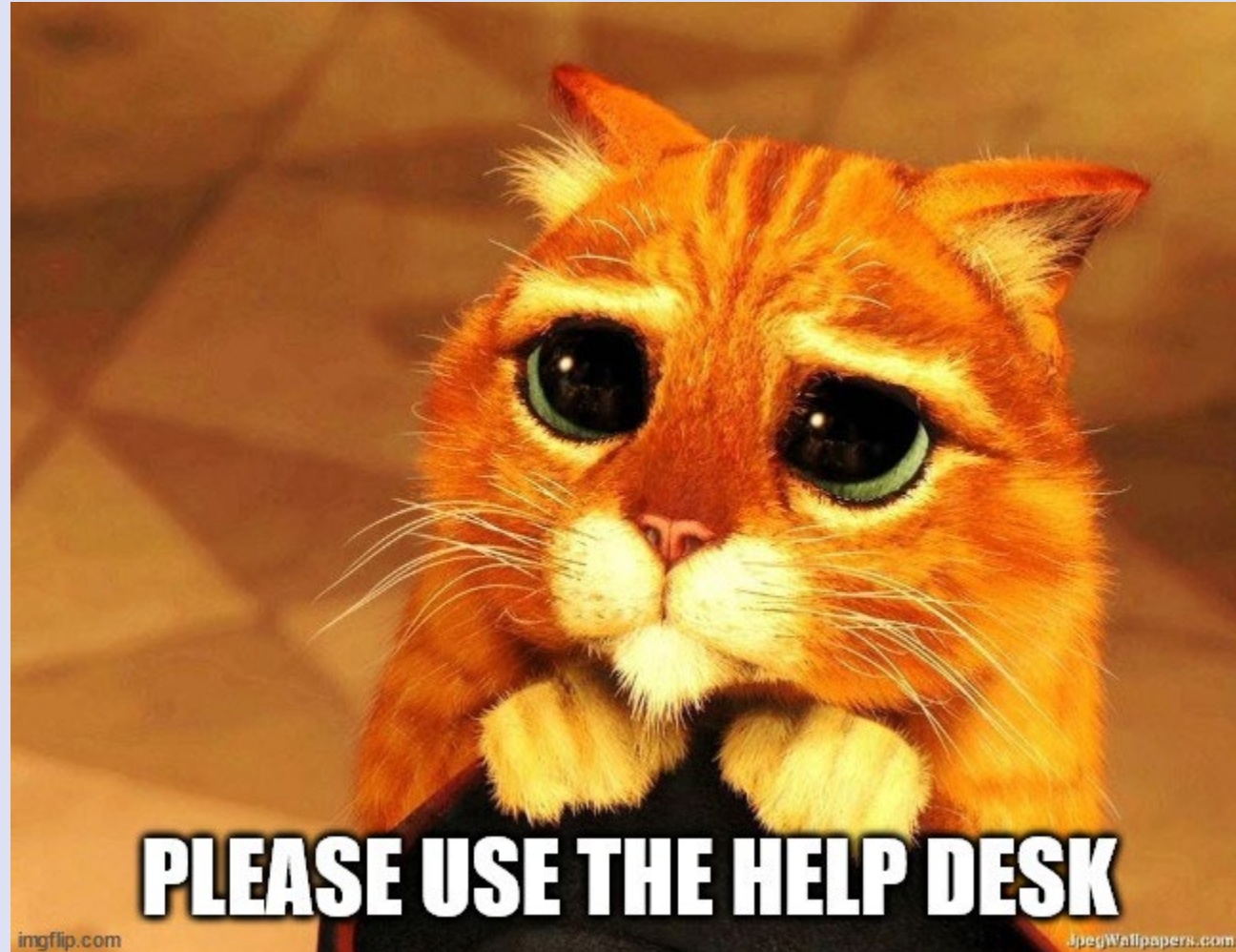
```
intellisense
  ||
  \/
code >>> compile >>>> run >>>> success ;- )
  /\              ||              ||
  ^^              \/              \/
  ^^              errors          errors
  ^^              \\\             //
  ^^              \\\             //
  ^^              google
  ^^              ||
  \\\             \/
  \<<<<<<< copy N paste
```

<https://secretgeek.net/howtobeaprogrammer>

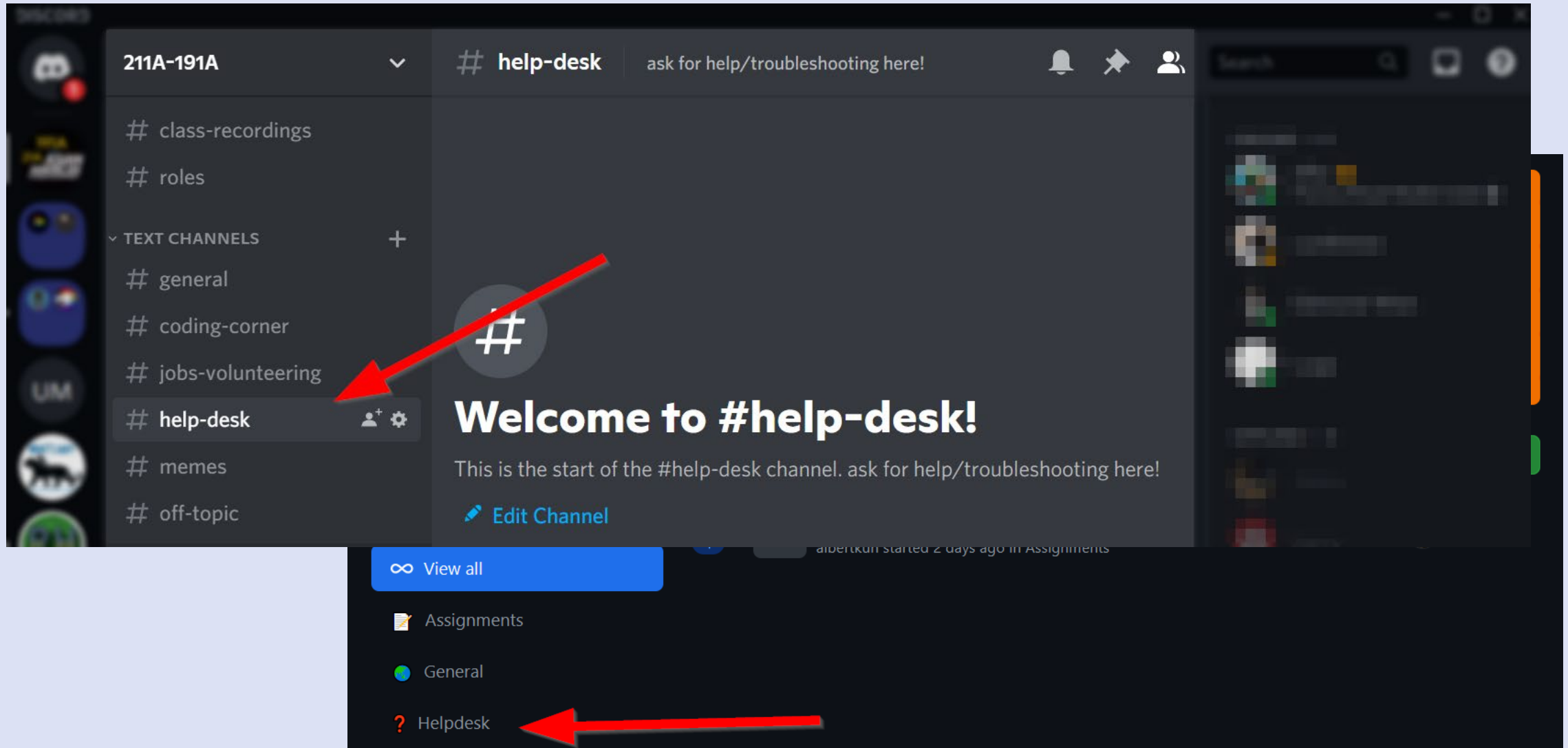
How to be a programmer

It's like learning a new language, conversing with others helps everyone get better at it.

On that note...



On that note...



Remidner: Places to get help

- **Search online**

[StackOverFlow.com](https://stackoverflow.com)

- **Class Discord**

<https://discord.gg/5VWcMgQmSN>

- **Ask on the class discussion forum**

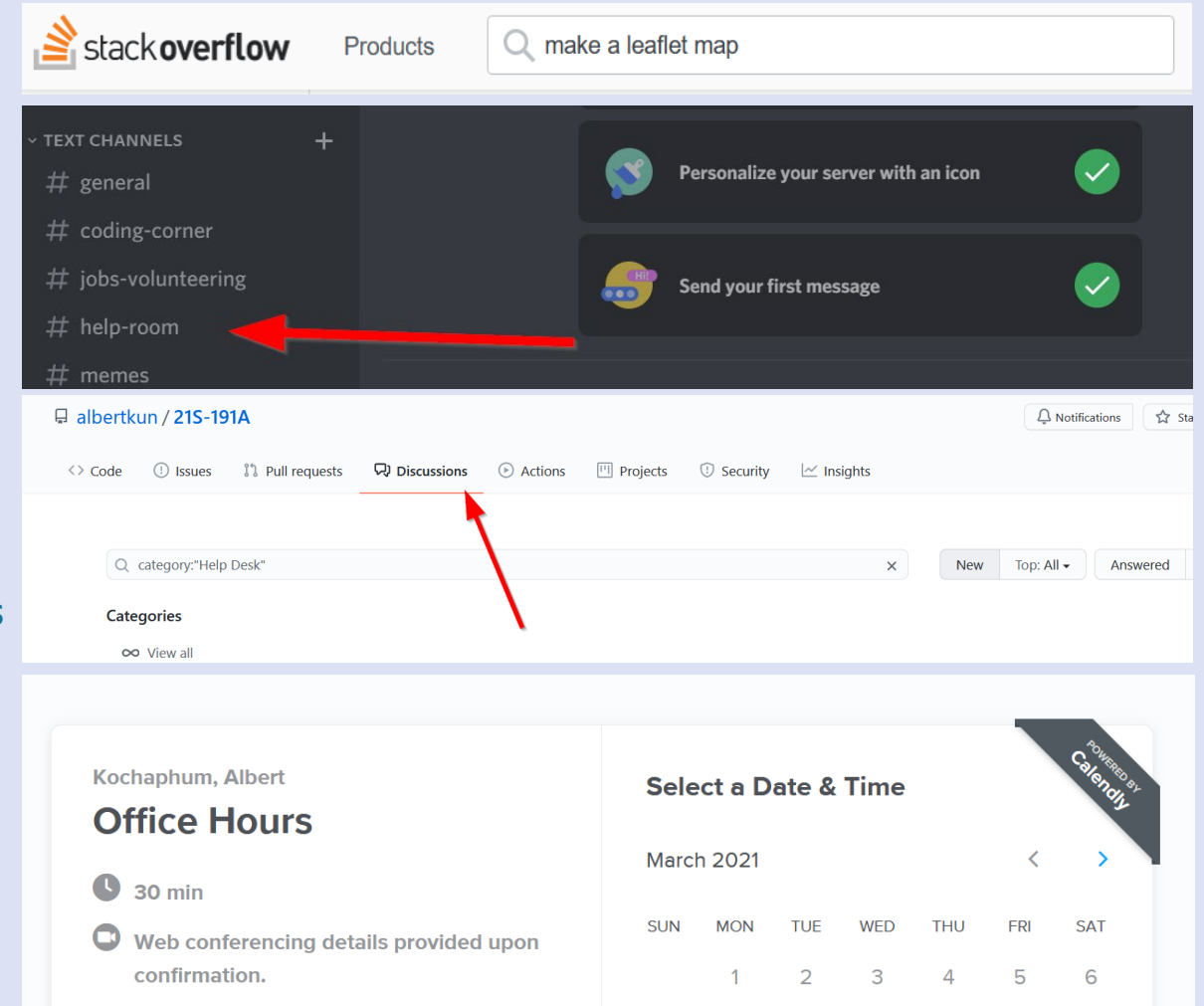
<https://github.com/albertkun/211A-ASIAAM-191A/discussions>

- **Drop by office hours**

<https://calendly.com/albertkun/office-hours>

- **Email the instructor**

albertkun@oarc.ucla.edu



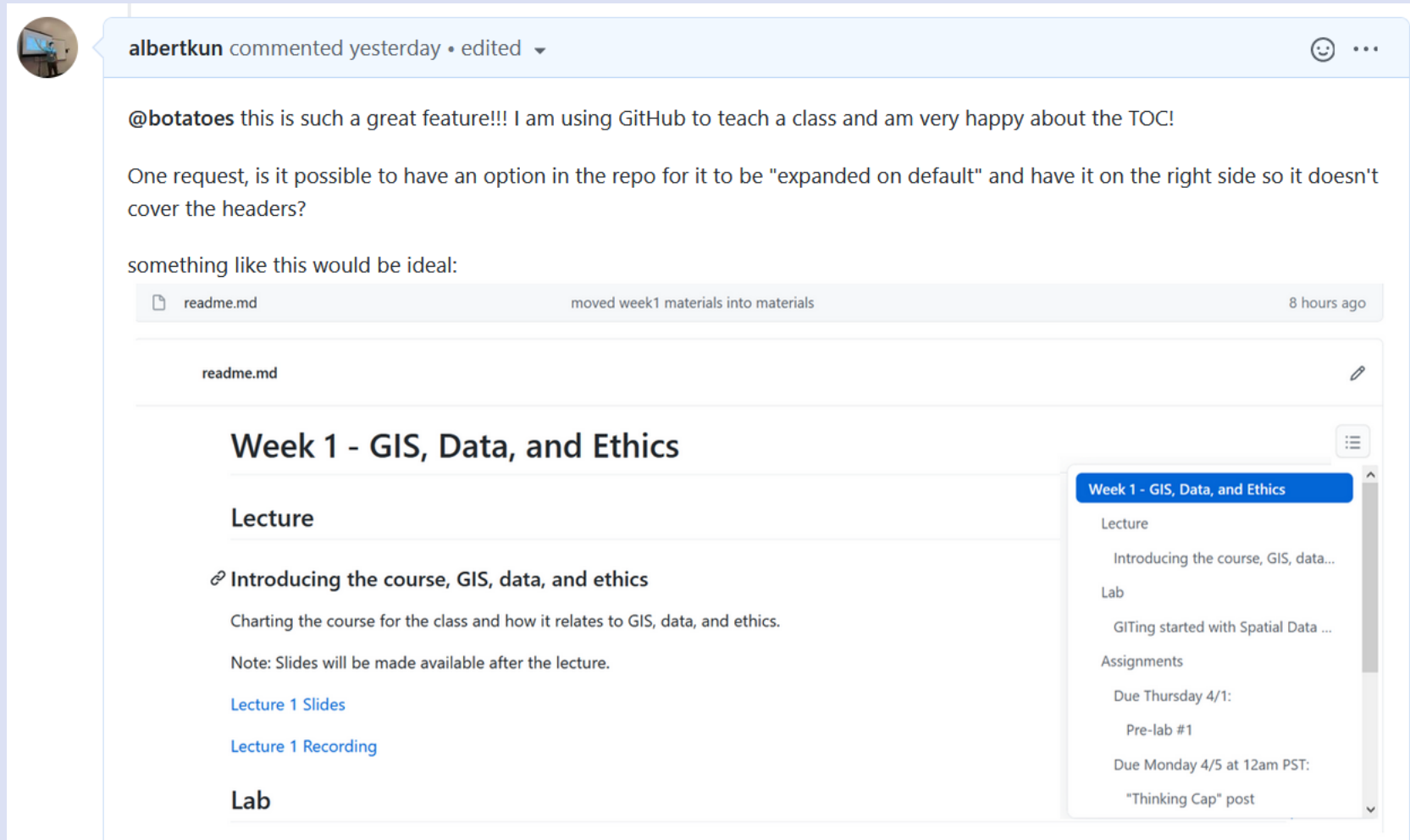
Lab – GITting down with GitHub

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)**

<https://www.github.com>

Why GitHub?



The screenshot shows a GitHub interface. At the top, a comment by user **albertkun** is displayed, stating they are using GitHub to teach a class and requesting a feature to expand the table of contents (TOC) on the right side of the repository. Below the comment, a file named `readme.md` is shown, which has been updated 8 hours ago with the message "moved week1 materials into materials". The content of the `readme.md` file is visible, featuring a title "Week 1 - GIS, Data, and Ethics" and sections for "Lecture" and "Lab". The "Lecture" section includes a link to "Introducing the course, GIS, data, and ethics" and a note about slides. The "Lab" section is partially visible. On the right side of the README, a table of contents (TOC) is shown, listing the sections and their corresponding links.

albertkun commented yesterday • edited

@botatoes this is such a great feature!!! I am using GitHub to teach a class and am very happy about the TOC!

One request, is it possible to have an option in the repo for it to be "expanded on default" and have it on the right side so it doesn't cover the headers?

something like this would be ideal:

readme.md moved week1 materials into materials 8 hours ago

readme.md

Week 1 - GIS, Data, and Ethics

Lecture

🔗 **Introducing the course, GIS, data, and ethics**

Charting the course for the class and how it relates to GIS, data, and ethics.

Note: Slides will be made available after the lecture.

[Lecture 1 Slides](#)

[Lecture 1 Recording](#)

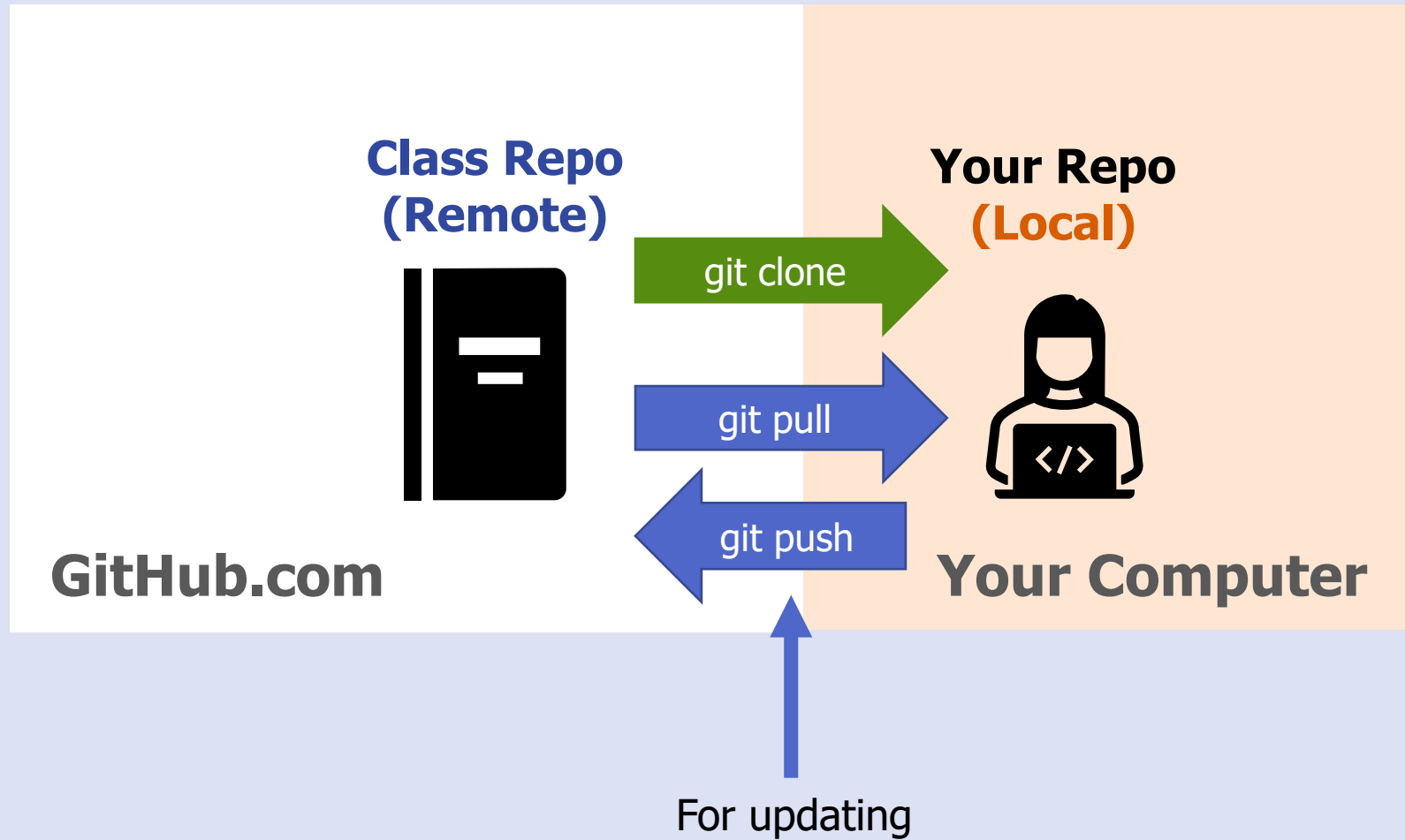
Lab

Week 1 - GIS, Data, and Ethics

- Lecture
 - Introducing the course, GIS, data...
- Lab
 - GITing started with Spatial Data ...
- Assignments
 - Due Thursday 4/1:
 - Pre-lab #1
 - Due Monday 4/5 at 12am PST:
 - "Thinking Cap" post

Building software better together!

1.1.1 Cloning

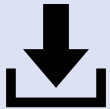


1.1.1 Git Cloning (the VS Code-sy way)

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 Clones vs. Forks

Clones



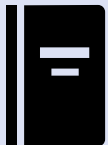
"Download" to my machine



When you need to contribute to the original repository



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



Used for Class repo

Forks



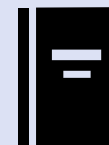
"Copy to my cloud drive"



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

Coding Lab: Hello World!

Hello Leaflet World!



an open-source JavaScript library
for mobile-friendly interactive maps

Overview

Tutorials

Docs

Download

Plugins

Blog

<https://leafletjs.com/>

Assignments

*For awards, submit part one by:
Tuesday at 2pm!

Due Wednesday 6/30:

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

Due Friday 7/2:

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.