

Hello World (Wide) Web Development

GITting down with labs and code

Mini-Lecture

Lab

Group Time



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slido.com
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Albert Kochaphum
Lab 1 | June 26th, 2024



How are you feeling today?

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How long did the pre-lab take?

Less than 1 hour



Still doing it 🤔



1 - 2 hours



More than 2 hours



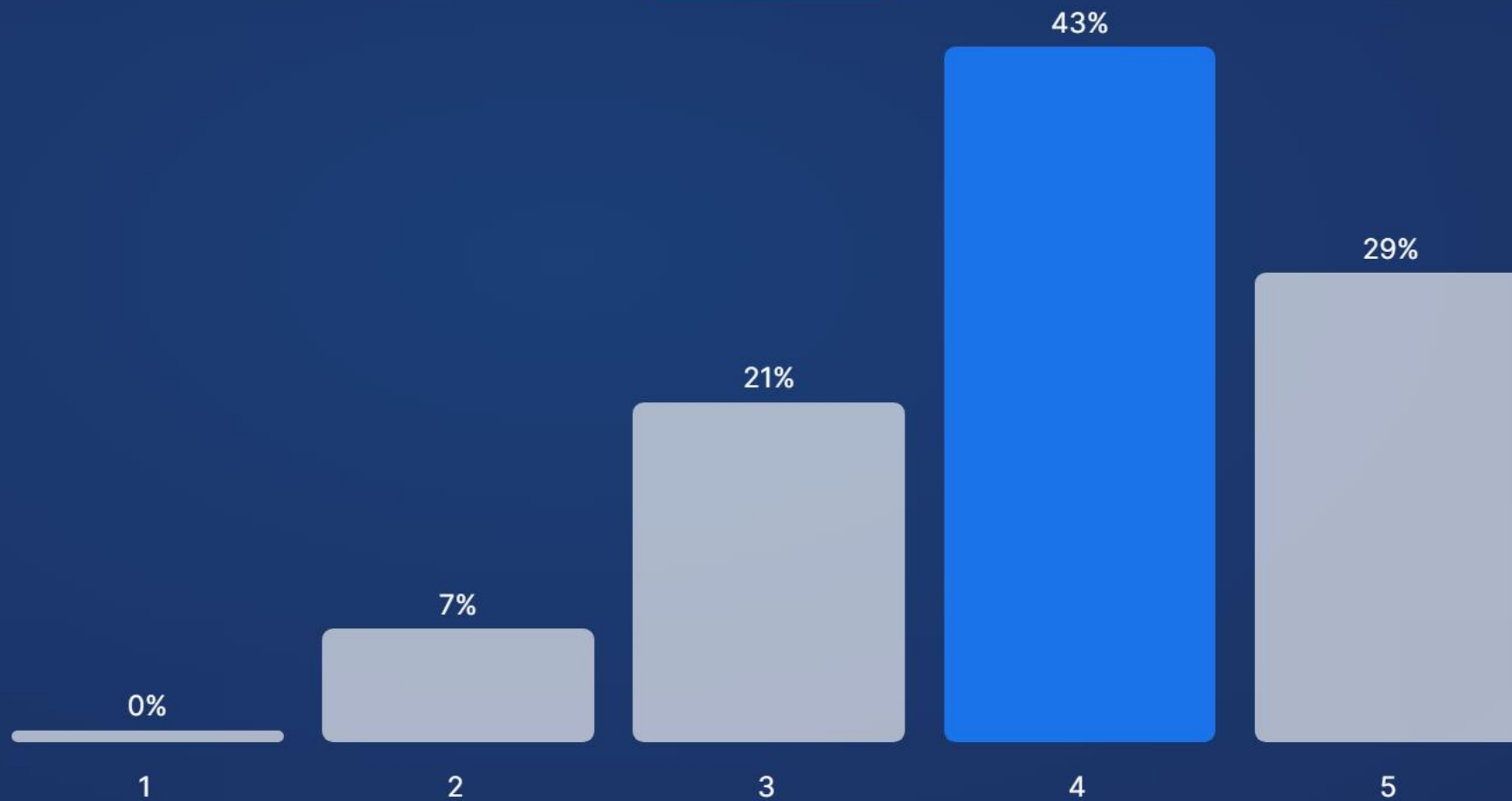
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How would you rate the Hands on Data Viz reading?

1 - Terrible 5 - Amazing

Score: ★ 3.9



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What is programming?

Instructions you give to a computer

designing/building

hard making programs

coding

writing code

a way to talk to computers

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Hello World (Wide) Web Development

Mini-Lecture

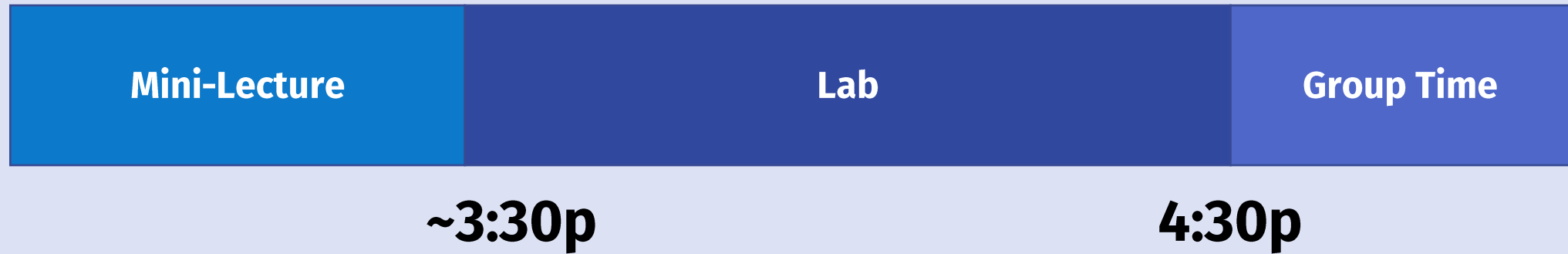


Mini-Lecture

Lab

Group Time

Today's Agenda



60 minutes of coding together! 🤖

Mini-Lecture

What is programming?



Programming
User stories
Group Project

What is programming?



Programming is a **collection** of instructions

```
#!/usr/bin/perl

my $name = "John";
my $age = 30;

print "Name: $name\n";
print "Age: $age\n";

my $greeting = "Hello, $name!";
print $greeting;

my $age_in_years = 365 * $age;
print "You are $age_in_years years old in total!\n";

my $age_in_days = 365 * $age;
print "You are $age_in_days days old in total!\n";

my $age_in_hours = 24 * $age_in_days;
print "You are $age_in_hours hours old in total!\n";

my $age_in_minutes = 60 * $age_in_hours;
print "You are $age_in_minutes minutes old in total!\n";

my $age_in_seconds = 60 * $age_in_minutes;
print "You are $age_in_seconds seconds old in total!\n";

my $age_in_milliseconds = 1000 * $age_in_seconds;
print "You are $age_in_milliseconds milliseconds old in total!\n";

my $age_in_nanoseconds = 1000000000 * $age_in_milliseconds;
print "You are $age_in_nanoseconds nanoseconds old in total!\n";
```

What type of instructions?



“How do you get to UCLA?”

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

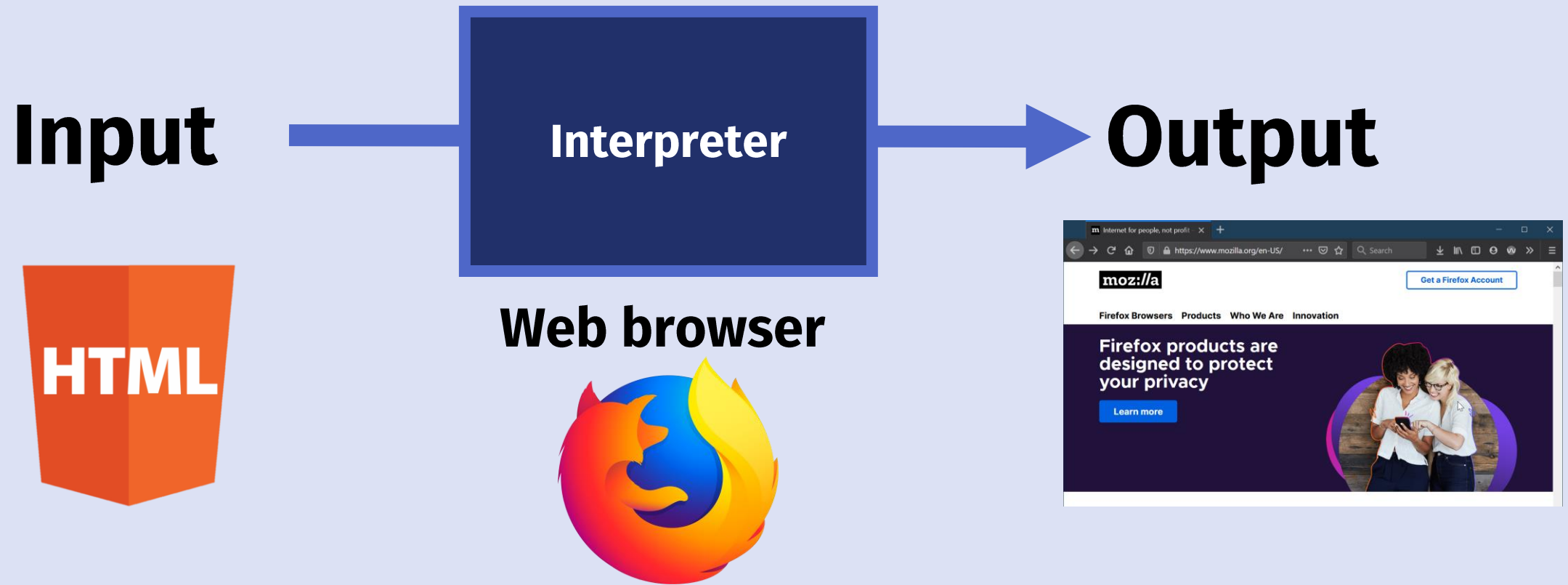
- Take Muni to Bart
- Take BART to Amtrak
- Amtrak to Westwood
- Arrive at UCLA

“Hello World”



“Hello World” is a basic example of these instructions.

What is web programming?



Programming for a web (browser)!

How to be a programmer

Industry secrets!

Programming

?????

User stories

Group Project

Step 1. Get a programming Keyboard



This is a must!

Step 2. Run this loop

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

Even the source of this loop is legit:

<https://secretgeek.net/howtobeaprogrammer>

A programming language is just like any other language



Conversing about it with others makes everyone better at it!

Main difference

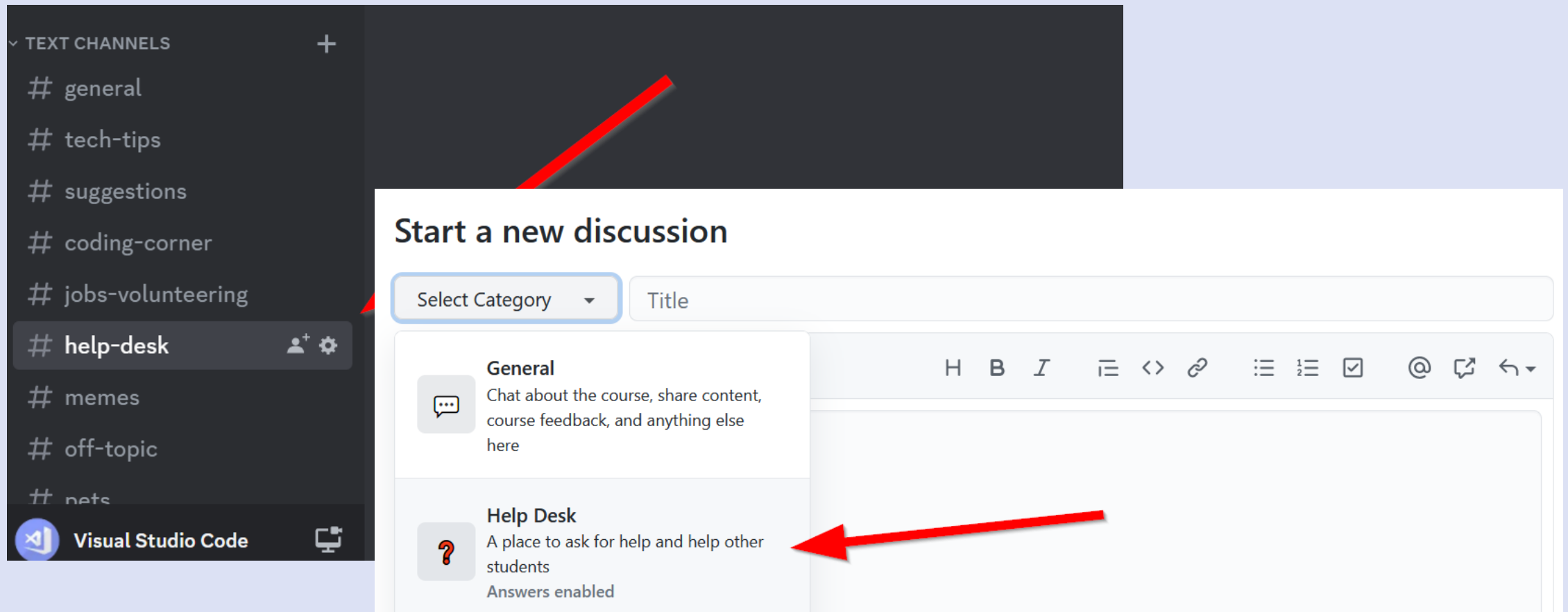


You are just communicating with a computer that is designed by other people.

Related to other people...



The help desk is for **use**!



The image shows a Discord server interface. On the left, a sidebar lists text channels: # general, # tech-tips, # suggestions, # coding-corner, # jobs-volunteering, # help-desk (highlighted), # memes, # off-topic, and # nets. At the bottom of the sidebar is the Visual Studio Code icon. A red arrow points from the # help-desk channel to a modal window titled 'Start a new discussion'. The modal has a 'Select Category' dropdown menu and a 'Title' input field. Below these are two category options: 'General' (with a speech bubble icon) and 'Help Desk' (with a question mark icon). The 'Help Desk' option is highlighted with a red arrow. The 'Help Desk' description reads: 'A place to ask for help and help other students' and 'Answers enabled'. To the right of the modal is a rich text editor with a toolbar containing icons for bold, italic, code, link, list, checkbox, mention, and reply.

TEXT CHANNELS +

- # general
- # tech-tips
- # suggestions
- # coding-corner
- # jobs-volunteering
- # help-desk
- # memes
- # off-topic
- # nets

Visual Studio Code

Start a new discussion

Select Category Title

General
Chat about the course, share content, course feedback, and anything else here

Help Desk
A place to ask for help and help other students
Answers enabled

H B I [code] [link] [list] [checkbox] @ [reply]

Mini-Lecture

User stories

Programming

User stories

Group Project

“Why am I programming?”

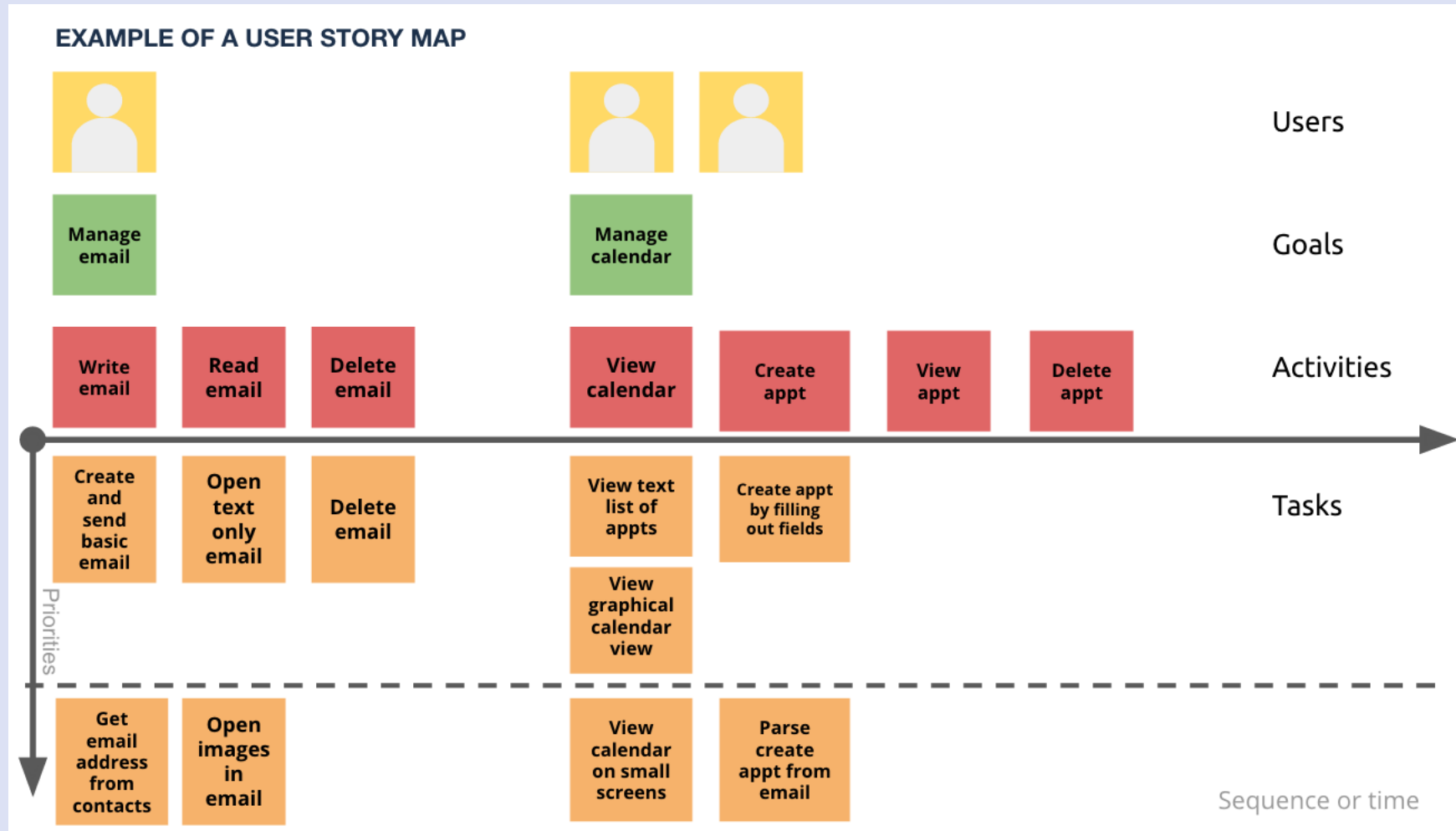
I need to complete this task for my job?

I want to make a website to show my skills?

I need this map for volunteers, how do I give them access?

“Who are you programming for?”

User Stories



An approach to focusing on the user first instead of the product

Basics of User Stories



Fictional User Story Example

persona + need + purpose



As a cat with only one life left, I need to get the wishing star, so I can get my 9 lives back.

Group Project User Stories Examples

persona + need + purpose

As an elderly Asian living in San Francisco, I want to see where I can get escorted when I walk home from grocery shopping, so I feel safe.

As a houseless person in Los Angeles, I want to share my stories about how destructive sidewalk sweeps have been for me, so LAPD can stop.

<https://www.atlassian.com/agile/project-management/user-stories>

Main take-away



Since coding is a set of **directions**, if you forget where you are going, user stories can act like a guiding star for your goals.

Mini-Lecture

Group Project

Programming

User stories

Group Project

Group Project: Overview

Final Group Project must



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



Use only government or private data sources



Designed for a social good and/or political campaign



Designed for-profit or for self-profit



Realigns power back to communities being harmed



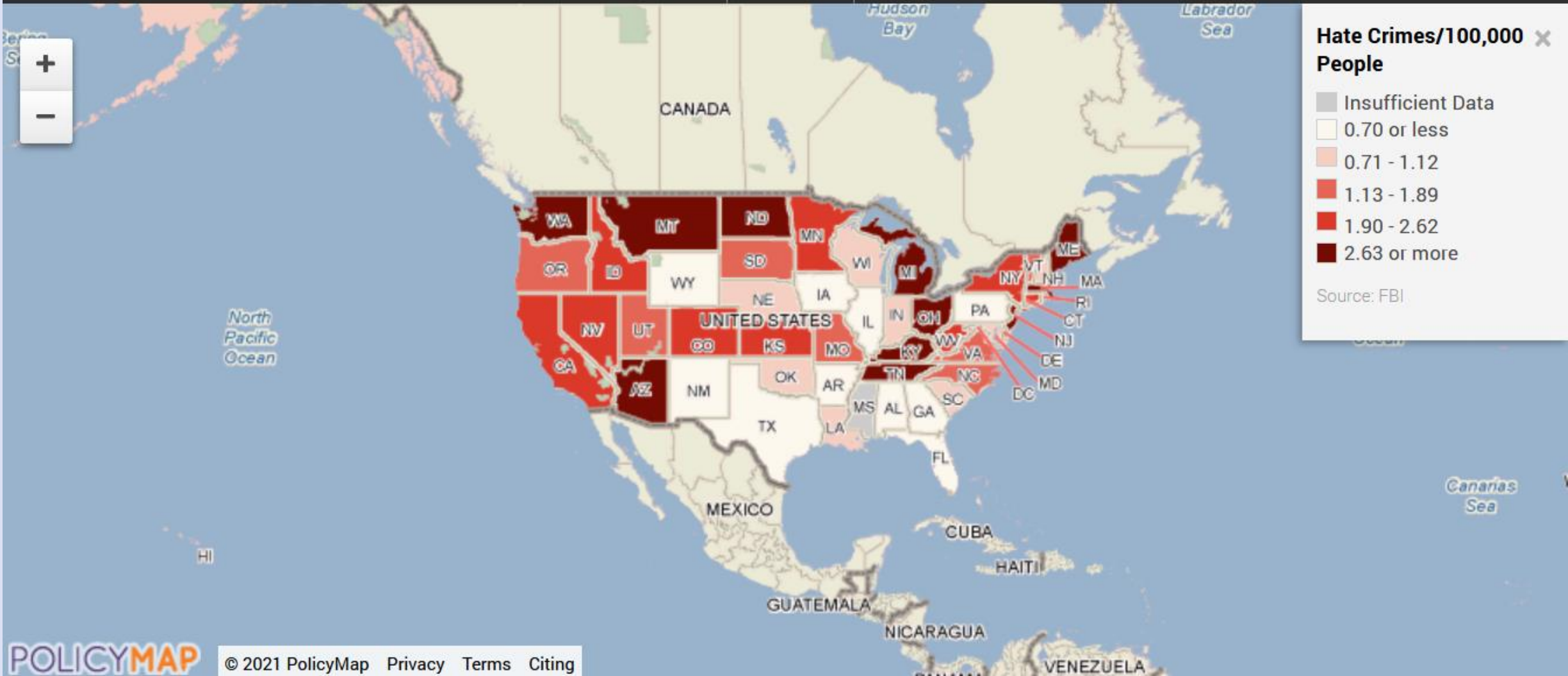
Reinforce corporate, academic, or governmental institutions

Focus on the people, not the data

Example: a tale of two hate crime maps

Rate of hate crimes reported per 100,000 people in 2015. i

SHADED BY:
State



POLICYMAP

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https://www.policymap.com/embedmap_dyn?lqid=286353&ew=755&eh=480&etitle=true&elegend=true



Mapping Hate Crimes in the US

#OneHateCrimesTooMany

[SEE COVID HATE INCIDENTS](#)

[REPORT INCIDENT](#)

[ABOUT](#)

Type

Date (M/D/YY)	City, State	Ethnicity	Gender	Type	Description
03/22/20	Los Angeles, California	Chinese	Male	Verbal Harassment, Physical Assault	I was helping a Chinese man translate chinese and English with hospital staff. He came in to the ER saying he was on the bus and a man just came up to him and started beating and kicking him for no reason. The assaulter was caught by police and charges were pressed.
03/22/20	Los Angeles, California	Chinese	Female	Verbal Harassment, Physical Assault	A homeless man saw me less than 100 feet from my apartment building. He threw punches and tried to kick my dog, chased me back to my building screaming racial epithets about me being a "nasty bitch" and "go back to China."
					Elderly (white) woman physically and verbally assaulted me in Trader Joe's in

CLOSE

This map is maintained by the UCLA American Indian Studies Center under the Institute of American Cultures. To contact us, email aisc@ucla.edu.

<https://www.hatecrimemap.com/>

Putting Community First

- **What story is missing from your issue?**
- **How would you represent that?**
- **What is their benefit from interacting with your tool?**

Group Project: Code of Conduct

Group Code of Conduct

- **Respect**
- **Be aware of your privilege**
- **Listen**
- **Criticize the action, not the person**
- **Step Up, Step Back**

<https://sfberniecrats.com/community-guidelines/>

There is no me in group

And  **groupme** **is no exception!**

Group Code of Conduct

We are trying to empower community voices, but we must empower each other too.

Please email or see me for any help:

<https://calendly.com/aa191a/office-hours>

Hello World (Wide) Web Development

Lab

Mini-Lecture

Lab

Group Time

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>

Hello Map Libre World!

Introduction

Introduction

MapLibre GL JS is a TypeScript library that uses WebGL to render interactive maps from vector tiles in a browser. The customization of the map comply with the [MapLibre Style Spec](#). It is part of the [MapLibre ecosystem](#), with a pendant for Mobile, Desktop, Servers called [MapLibre Native](#).

Quickstart

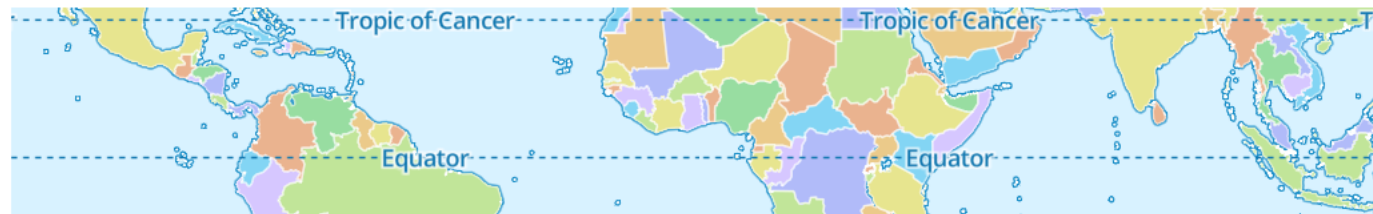


Table of contents

Quickstart

Reading this documentation

NPM

CSP Directives

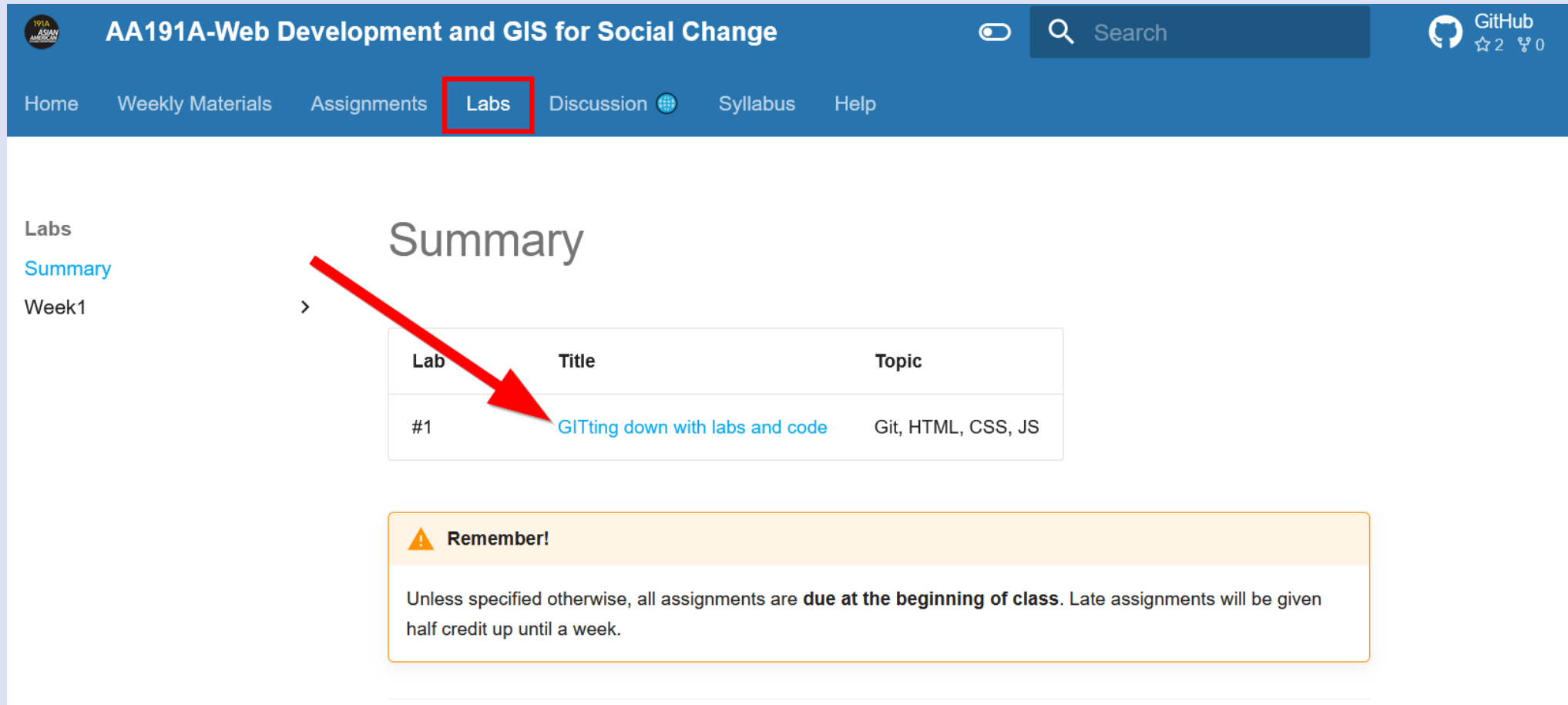
MapLibre CSS

CDN

Examples

<https://maplibre.org/maplibre-gl-js/docs/>

GITting down with labs and code



The screenshot shows a course website for 'AA191A-Web Development and GIS for Social Change'. The 'Labs' menu item is highlighted with a red box. A red arrow points to the lab entry in the table below.

Labs

[Summary](#)

Week1 >

Lab	Title	Topic
#1	GITting down with labs and code	Git, HTML, CSS, JS

Remember!

Unless specified otherwise, all assignments are **due at the beginning of class**. Late assignments will be given half credit up until a week.

<https://albertkun.github.io/24SU-ASIAAM-191A/labs/week1/>

Assignments

Due Monday 7/1:

1. “Thinking Cap” post and responses.
2. Read “Introduction to Critical Cartography”

Due Thursday 7/3:

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.