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Beyond Web Development and GIS for Social Change: Critical Data Studies for Transforming Civil Society

Keri Chen
Angeline Eow
Kristen Fu
Shubham Gupta
Emma Hanson
Xiong Her
Haven Jovel
Ananya Kodali
Nishaanth Krishnan
Willa Kurland
Lillian Lamb
Kaitlyn Li
Anthony Lin
Ashley Lu
Jenny Lu
Lindsey Mardona
Sine Polcharoen
Daiki Saito
Ivy Tang
Diana Tran
Ngoc Tran
Steven Tran
Albert S. Kochaphum
Week 10 | June 1st, 2022

Spoiler Alert



Lecture 10

- ⓘ Start presenting to display the poll results on this slide.



Final Class, Final Slido! How are you feeling?

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drowning in work but happy the year will be over soon!

realization of how fun this class is?was?

sweatier than ever

surviving

caffinated >:) tired

good 😢

Nervous trying to survive

sad

in utter disbelief.

excited

slay

pretty good! but sad!

sad that this class will end

IM GONNA MISS THIS

How are you feeling?

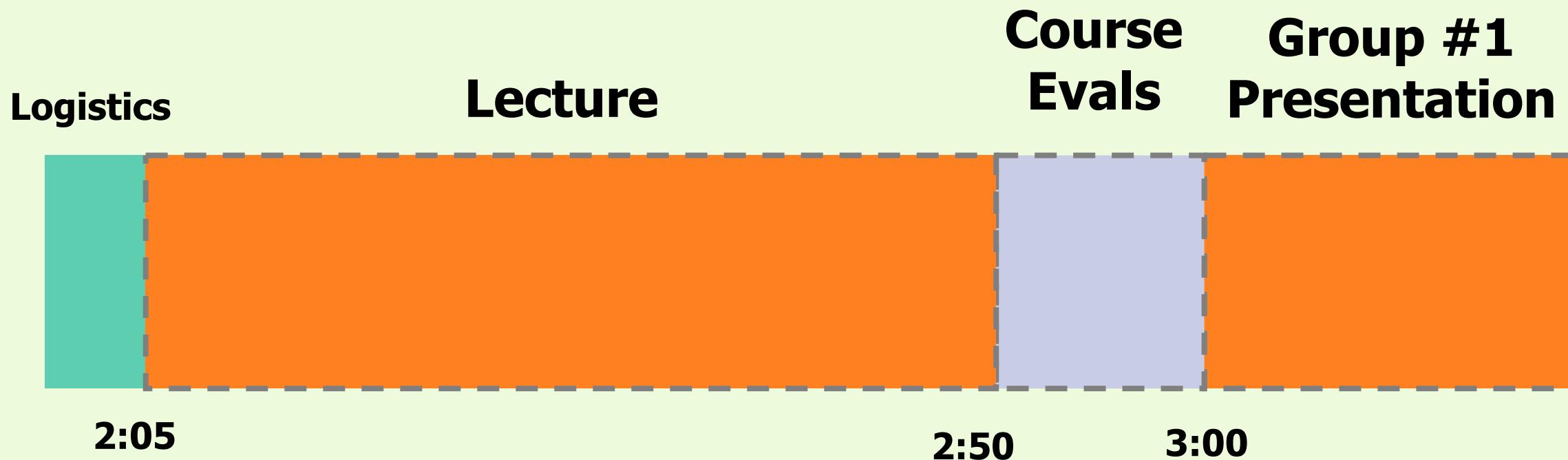


First Slido Word Cloud



Top 50 words Word Cloud

Today's Agenda



Presentation Guidelines

Point of the presentation:

Pitching the project to the audience, not simply demoing your website!

Presentation Guidelines

1. **Introduce** the project (< 30 seconds)
2. **Who** is the project for and why is it important? (2-3 mins)
3. **What** does your website do, and **how** does it empower people? (2-3 mins)
4. **Demo** of the website (or screenshots) (2 mins)
5. How would you like your project to be **used** in the **future** or **by the community members**? (2 mins)

<https://albertkun.github.io/22S-ASIAAM-191A/assignments/final/#presentation-guidelines>

Theme of the week

Thank you for an empowering 10 weeks!

Beyond Web Development and GIS for Social Change

**Enough stooling for time!
Wood you get on with the last lecture?**



All leveraged in different ways for social change

But don't forget this imbalance on technology



A CAUTIONARY TALE





Trending:

The best 5G phones to buy in 2021

5G News: Everything you need to know

MOBILE

Google Photos will start charging you for uploads today

By Christian de Looper

June 1, 2021 5:31AM PST



Google Photos has been one of Google's most popular services ever since it was launched in 2015, offering unlimited free photo storage at so-called "high-quality." As [was announced in November](#), however, that's coming to an end. Today, June 1, Google Photos will begin charging you for any [storage over 15GB](#).

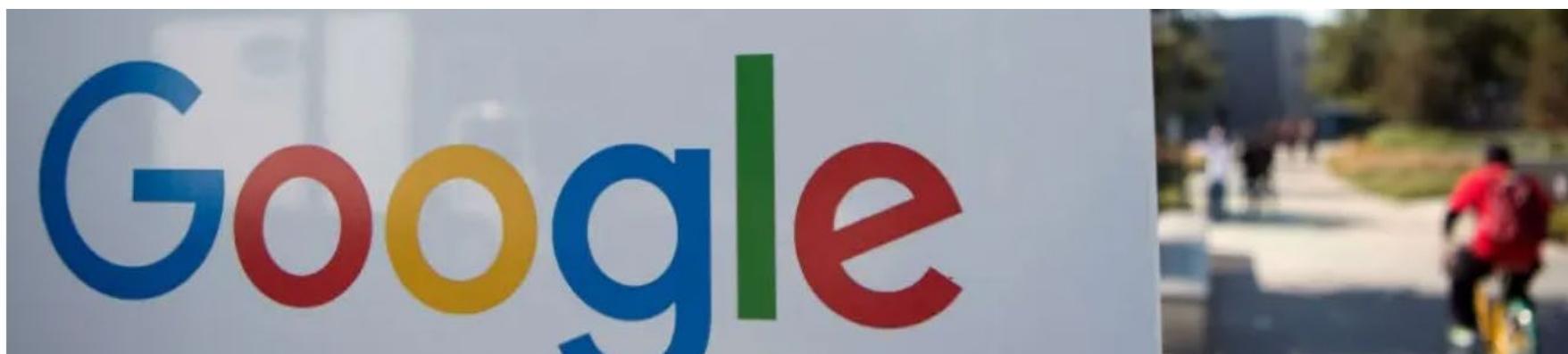


THE HILL

TECHNOLOGY

Activists, workers press Google founders to support racial equity audit

BY CHRIS MILLS RODRIGO - 05/27/22 9:00 AM ET



A collection of civil society groups and employees at Alphabet, Google's parent company, sent letters to Google founders Sergey Brin and Larry Page and former CEO Eric Schmidt Friday urging them to support a racial equity audit at Alphabet.

<https://thehill.com/policy/technology/3503534-activists-workers-press-google-founders-former-ceo-to-support-racial-equity-audit/>

Remember this?

Technological Determinism



THE WORLD IF...

WE ONLY HAD THE RIGHT TECHNOLOGY

I hope you learned to identify it...

Greenhouse gas emissions

Half of emissions cuts will come from future tech, says John Kerry

US climate envoy says people will not have to give up quality of life to achieve some of net zero goals

Jessica Murray

Sun 16 May 2021 07.01 EDT



235



TECHNOLOGY NEWS MAY 19, 2022 / 1:35 PM / UPDATED 11 DAYS AGO

U.S. launches \$3.5 billion program to speed development of up carbon removal tech

By Reuters Staff

3 MIN READ



<https://www.reuters.com/article/us-usa-energy-carbonremoval-idCAKCN2N51YS>

It's up to you how you apply this class.

[Home](#) / [Software](#) / [Feature](#)**UPDATED**

8 reasons to quit Chrome and switch to Firefox

From stopping autoplay videos in their tracks to reducing the system burden on your PC, there's plenty to love about this browser.

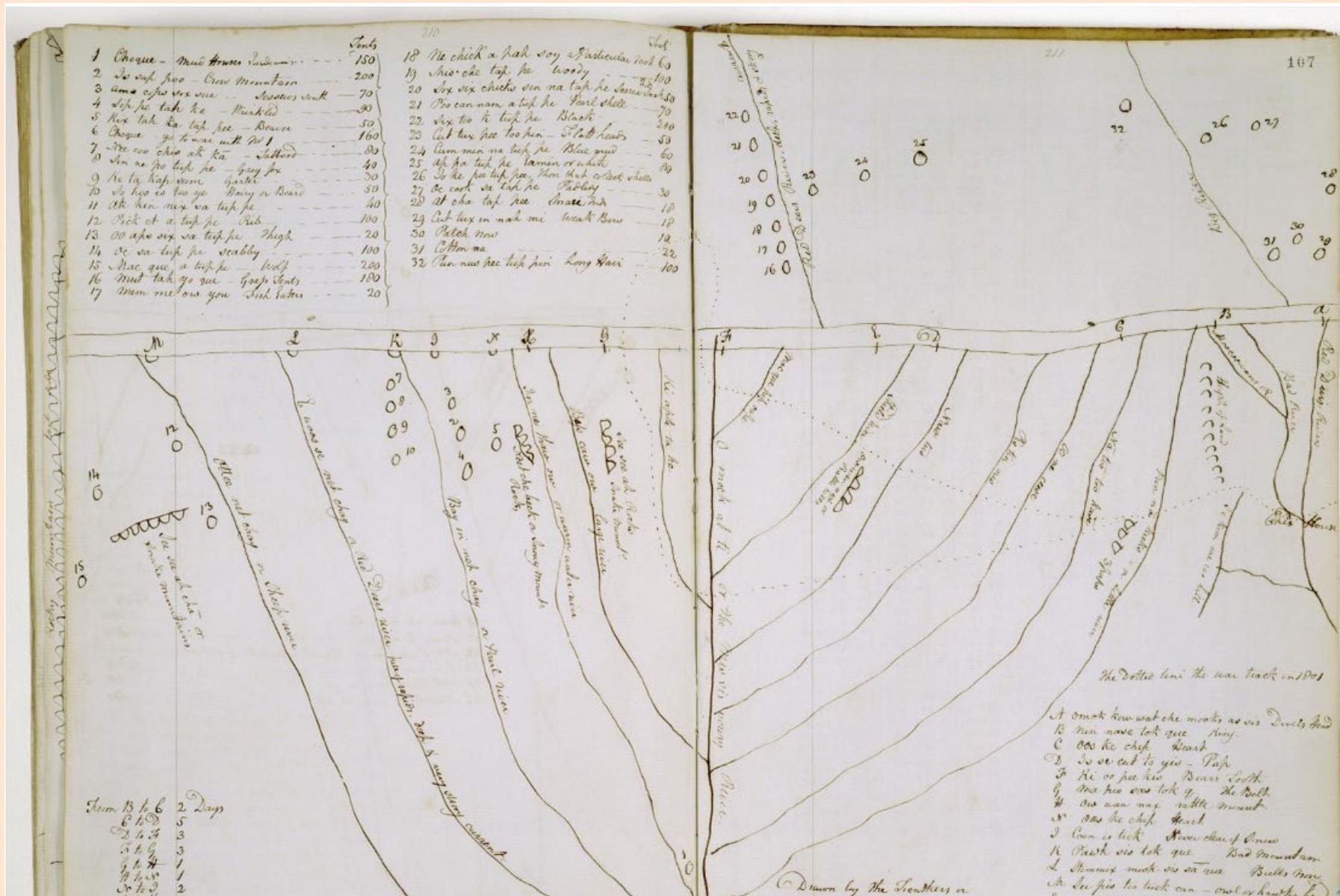
**By Alaina Yee**

Senior Editor, PCWorld

MAY 30, 2022 7:30 AM PDT

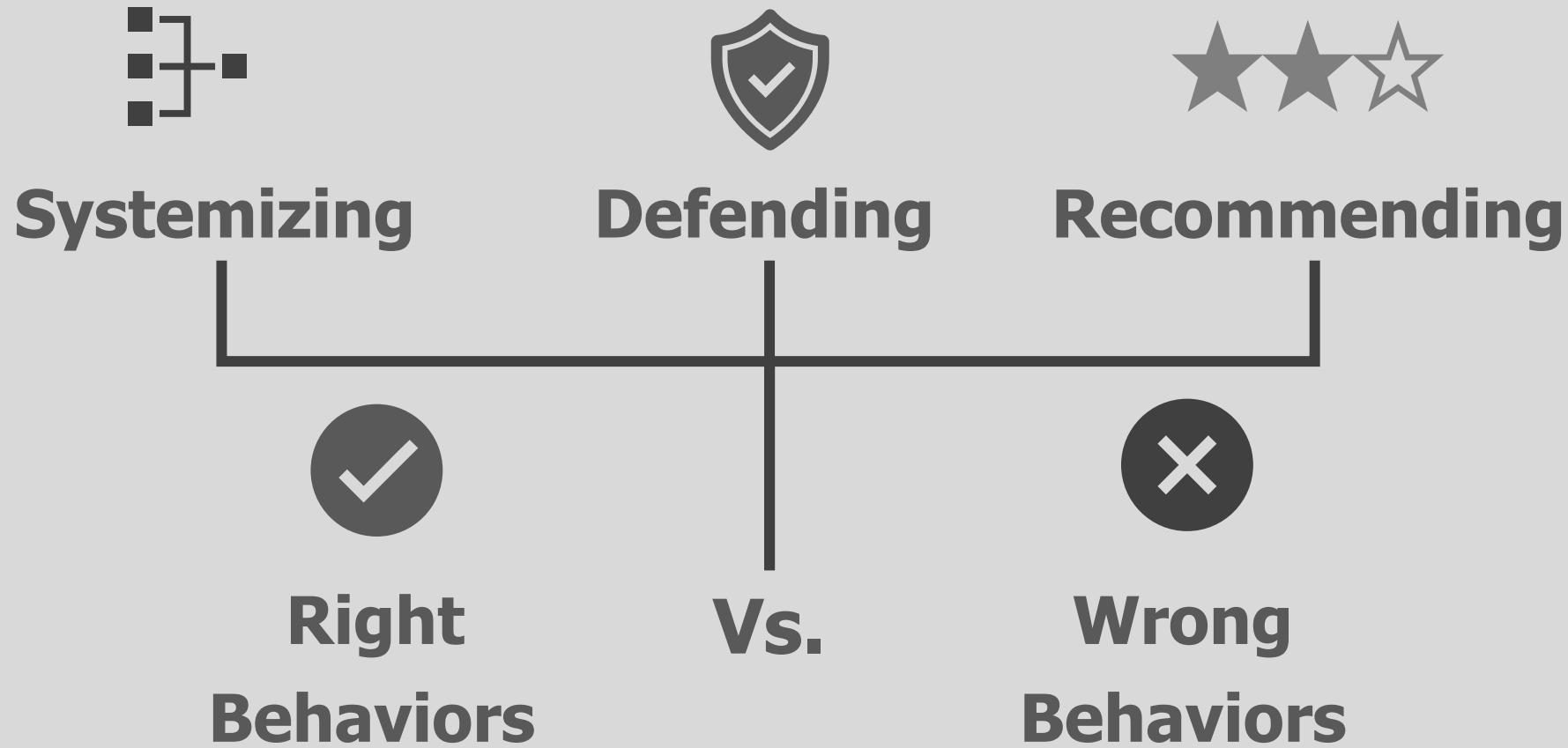


<https://www.ndstudies.gov/gr8/content/unit-ii-time-transformation-1201-1860/section-2-indian-maps-louisiana>



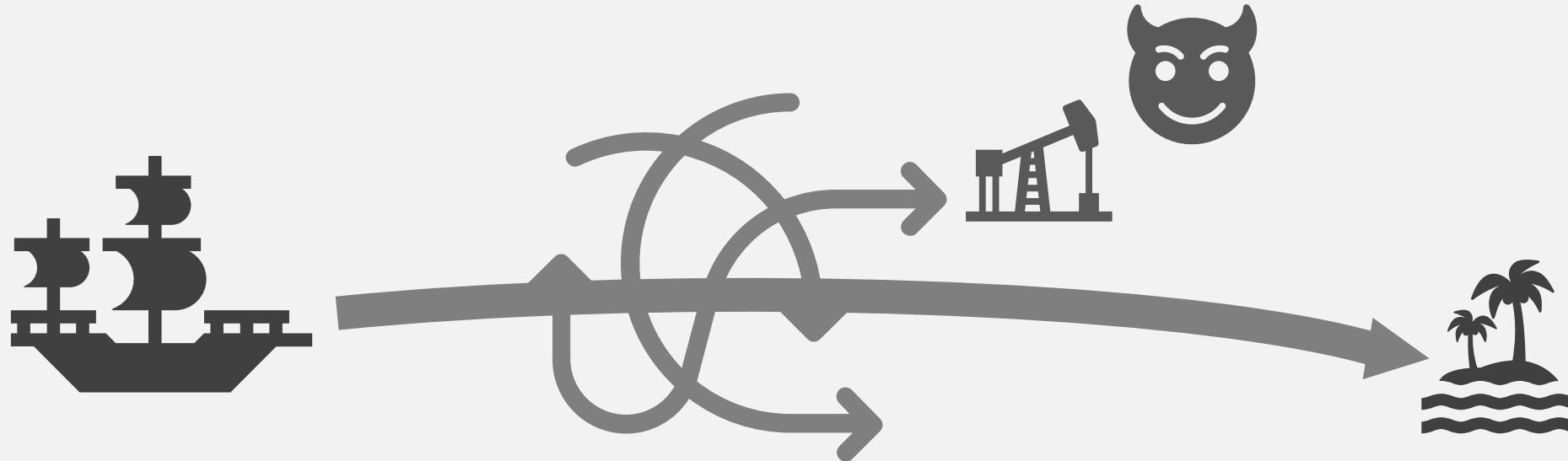
Remember this?

Ethics is about:



There are no **right** answers in ethics, but just thinking about it is the first step in the **right direction**

Why? Remember this?



Decide where you want to be going with your mapplication.

Or external forces will decide that for you.

Be intentional and thoughtful

**Without your own ethics, you are following
someone else's course.**

With ethics in mind, you are all equipped to explore!



Open Source Web Mapping

3D Mapping



<http://examples.webglearth.com/>



<https://github.com/wrld3d/wrld.js>

Complicated 2D Mapping



<https://openlayers.org/>



<https://d3js.org/>

<https://mappingwithd3.com/>

Open Source Web Mapping by companies



<https://cesium.com/platform/cesiumjs/>



<https://kepler.gl/>



<https://carto.com/>

Closed Source Web Mapping by Companies

ArcGIS API for JavaScript

<https://developers.arcgis.com/javascript/latest/>



ArcGIS StoryMaps

<https://storymaps.arcgis.com/>



Google Maps Platform

<https://developers.google.com/maps/apis-by-platform>

Mapbox GL JS

<https://www.mapbox.com/mapbox-gljs>

For this class...

Web development is not just about code

It's about developing a **web of connections!**

To software

To communities

To ethics

To each other

Remember this?

Design is relatively easy

Justice is hard

But...

You don't have to go at it alone.

We are **Linked**
together now!



Our journey has come to an end...

Thank you, Albert!

From Ray Hsiao, AAS 191A Spring 2021

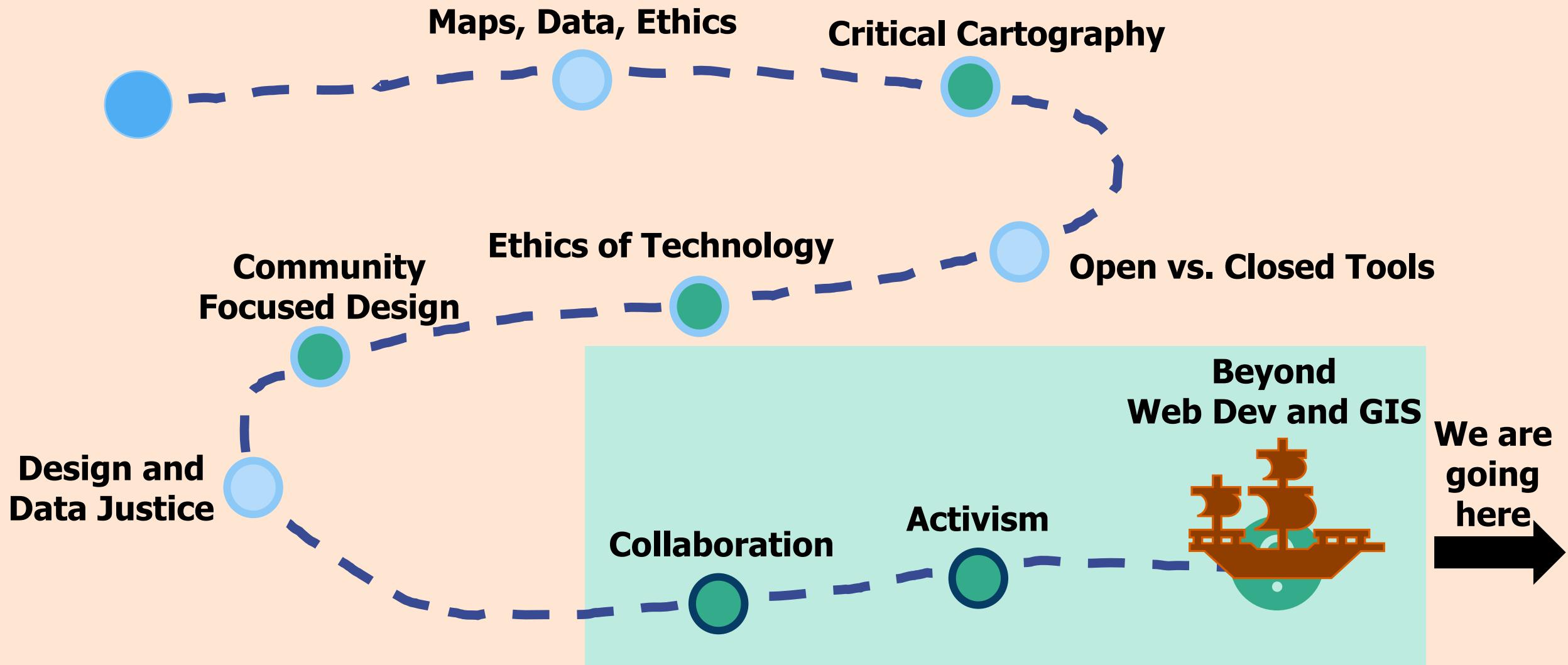


**Hopefully the journey
was mincciNO problem**

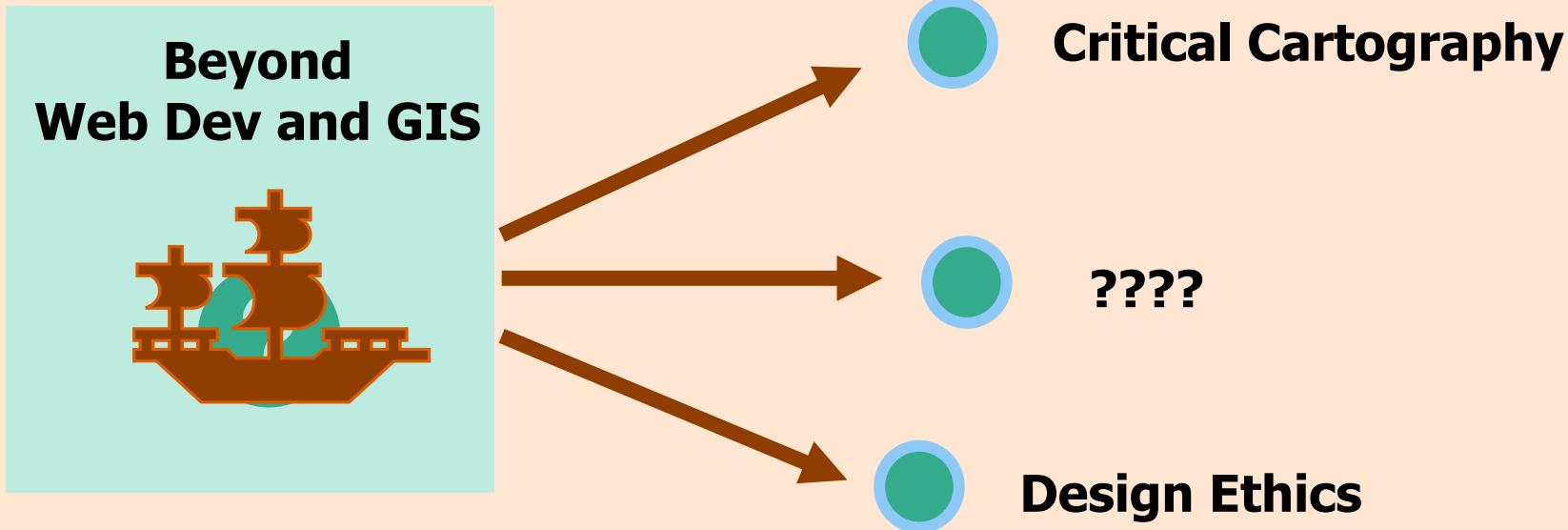


**At least this student thought it
was okRAY!**

The Course

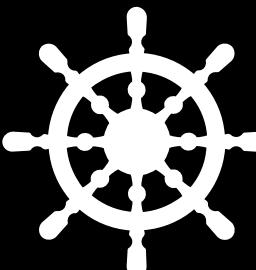


The End of a Journey...



Is the beginning of a new one...

IT'S DANGEROUS TO GO
ALONE! TAKE THIS.



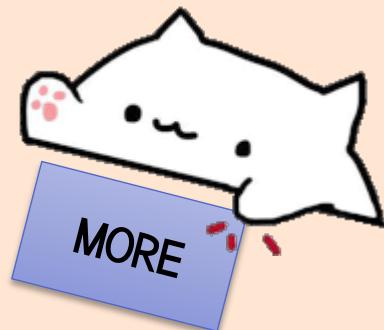
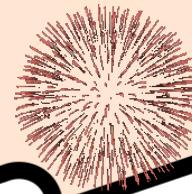
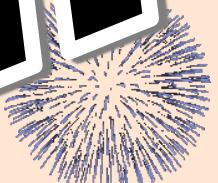
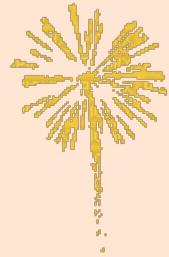
How do I know you will lead the ship well?

Because you all have shown you are great...

Thinking CapTains



visiting **the** **voice**
find-a-wards



The Visiting Voice

Fin AI wards

1. <https://github.com/albertkun/21S-ASIAAM-191A/discussions/154#>

Mariah Tso thoughtful response



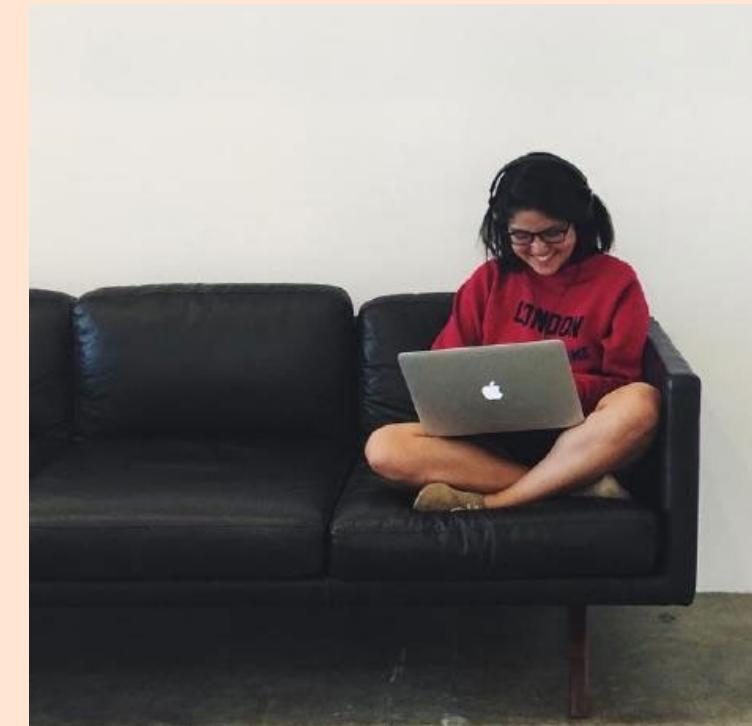
Mariah Tso played a major role in addressing my concerns with this question and therefore left the greatest impact on me. Her constant centering of indigenous communities and marginalized narratives within her lecture on what cartographers must do and know to be critical of structural oppression reminded me of this class's theme that technology is not intrinsically bad but rather can be used against marginalized communities. In a similar sense, folks complicit in neoliberal politics and other forms of oppression can create technologies that are meant to be harmful (I.e. predictive policing).

-Shubham Gupta

Machiko YasuDa-ng! Open Source projects with community is awesome

I found Machiko Yasuda's work with Maptime LA to be an important example of how such digital projects can be structured in order to center the community - having it be open source and listening to the community on their needs.

-Nishaanth Krishnan



Yoh Kawano'ing how to make an impact



Yoh's activity and his approach to interacting with people in Japan left the most impact on me because he demonstrated that community-centered projects can create a strong bond with the people you are surveying, but in order to do so, you must focus on listening to their stories and what they hope to achieve out of them. His presentation was especially memorable because the earthquake that happened in Japan in 2011 is very personal to me, and I remember a lot about it even though I was young.

-Daiki Saito

Ya'll got this, so Tiffany Guerra Huang-in there!

I thought that Tiffany's presentation left the most impact on me, because it was incredible how she used design justice to make such moving statements.

-Ananya Kodali

My favorite visiting voice was Tiffany. I appreciated the resources she shared with us, including the images and art she created. It spurred my interest in developing the skills to create similar artwork as a way to visualize the impacts of social inequities to more creatively communicate.

-Ngoc Tran



Nina Kinspirational Presentation



The most impactful visiting voice that I've met would be Nina given that I had the closest sense of relatability with her in terms of background and where she came from and her path to what she does now. I really liked her presentation and how she connected to a TV show that she really likes and hearing about her goals for her own life as well as the impact on the community she wants to place is important.

-Emma Hanson

The visiting voice that resonated the most with me was Nina Kin's collaboration and mentorship presentation. Though I've set myself up to take classes that I think I would be interested in, I still sometimes feel lost in terms of what I want to do in the future. For me, it was reassuring to see that despite traversing through rough waters, Nina took the time to explore things she was interested in and ended up finding a place for herself in the intersection of government and technology.

-Ashley Lu

And, that's a Rapi! Cas'till'o Next Time!

Although all the visiting voices were amazing in their own way, Rapi's visiting voice really impacted me. This is because he basically called me out. He said, "As engineers we love coming up with solutions. What we lack is understanding the problem". This really made me reflective of how I perceive any sort of design work that I do.

—Diana Tran

It was nice to hear about his works with Bernie Sander and other political campaigns, applying mapplication to solve real life issues and to advance certain social and political causes.

-Xiong Her



And, that's a Rapi! Cas'till'o Next Time!

I think Rapi's presentation was really powerful. He demonstrated that maps and GIS can have real political change. The app/map called REACH shows that technology can bring people together, and the fact that AOC used it for her campaign is a good demonstration of this. I appreciate that he acknowledged that engineers "lack the understanding of the problem", though I don't think it has to be that way. Moving forward I also want to keep in mind the words of wisdom from all the speakers!

-Willa Kurland





You are in charge of the ship!

Not just any ship though!

**SUPER
SMASH BRIDES.TM**

ULTIMATELY

RelationShips

Remember this?

What is this course, really?

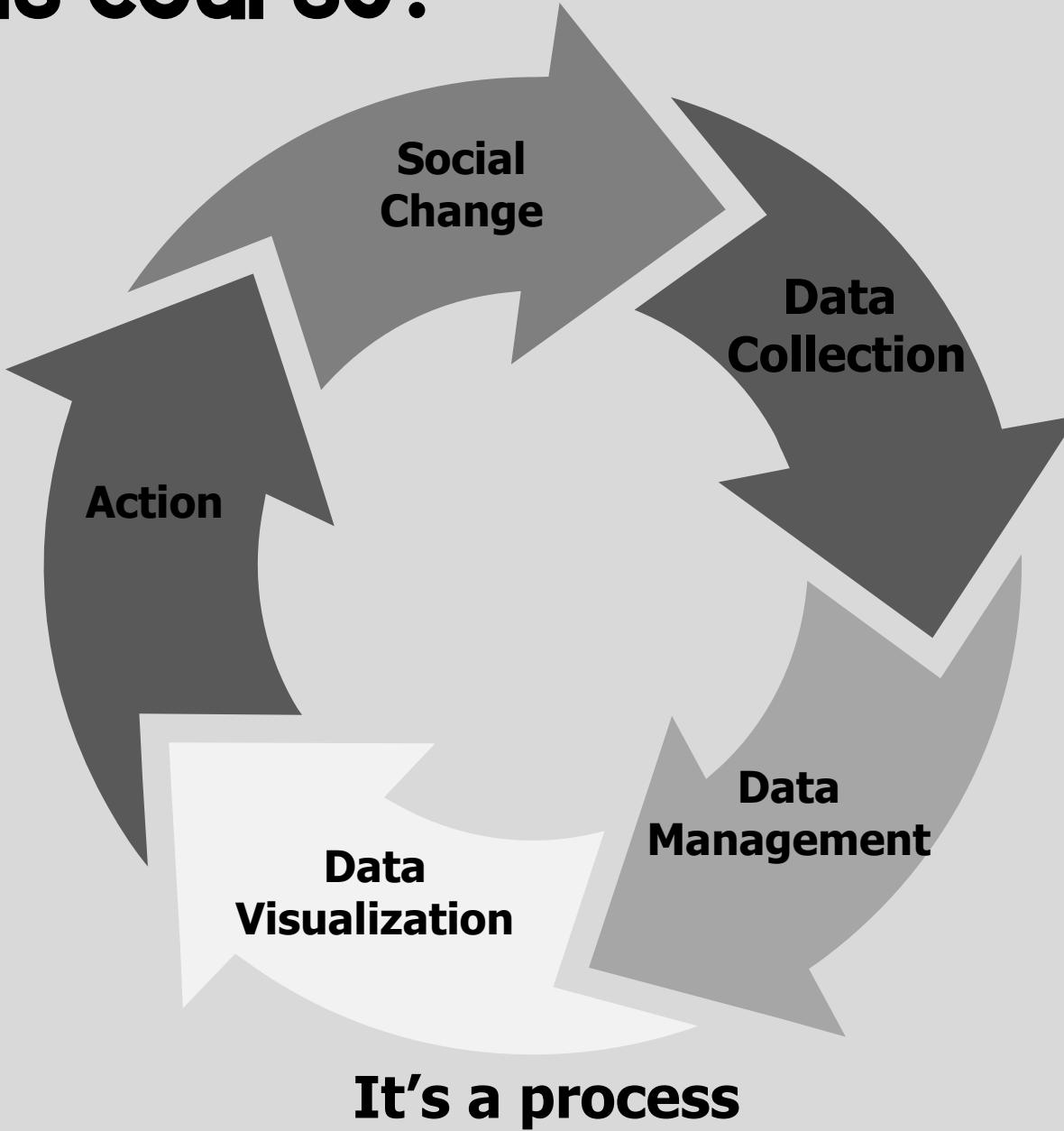


Tackling social problems together.

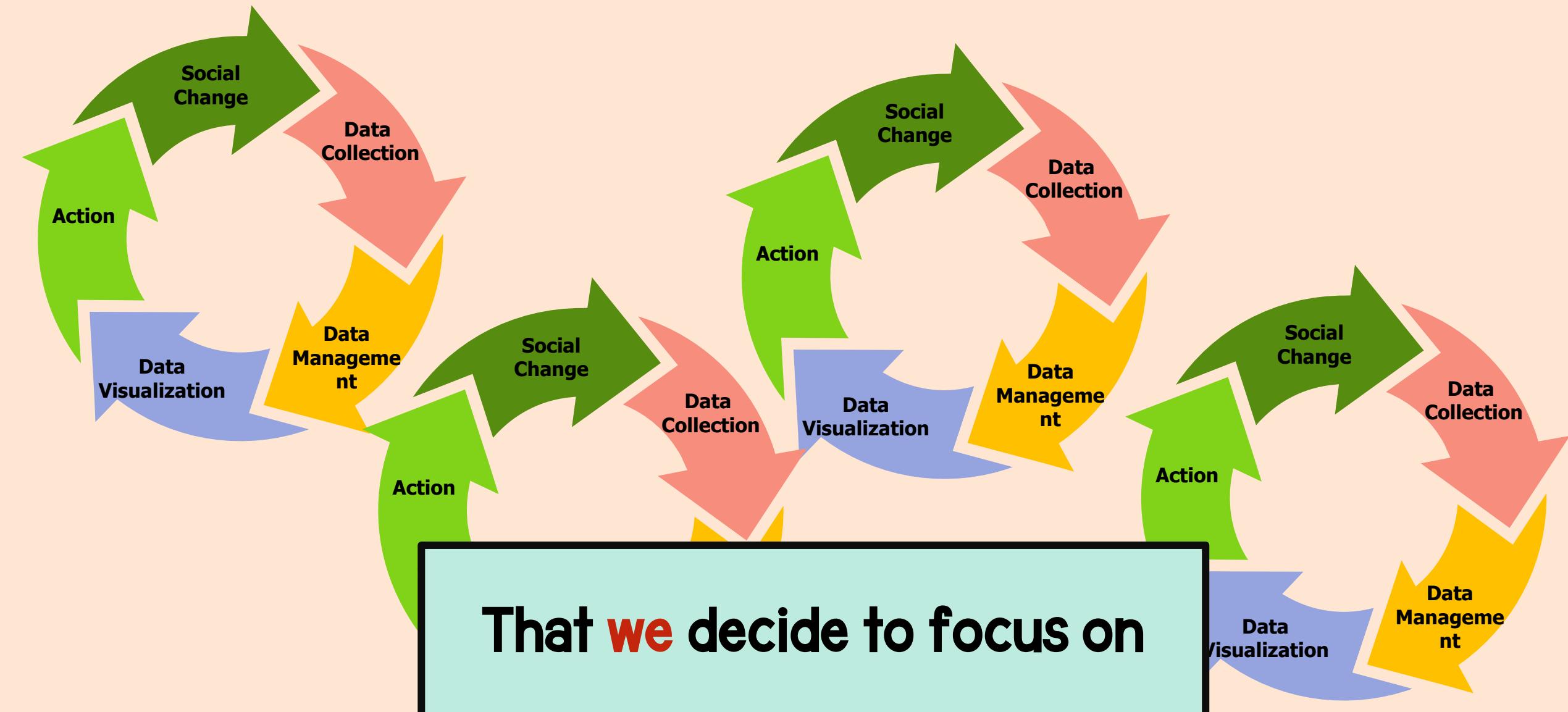


Remember this?

What is this course?



It's actually a collection of connected change processes



**Each Visiting Voice represents the relationships
between us and social change processes**

WEB DEVELOPMENT AND GIS:

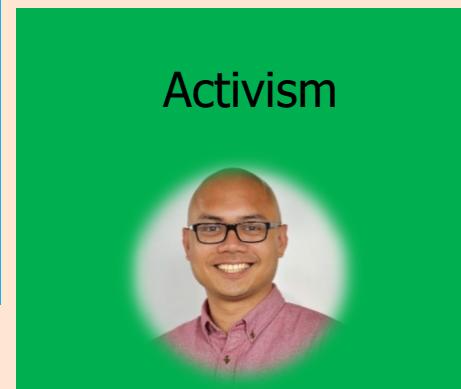
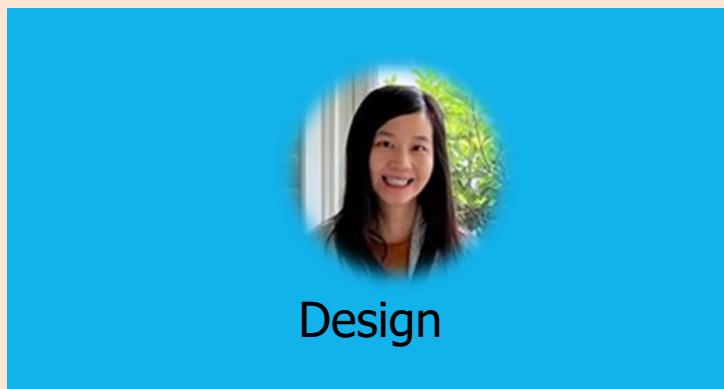


CODING WITH MANY LENSES

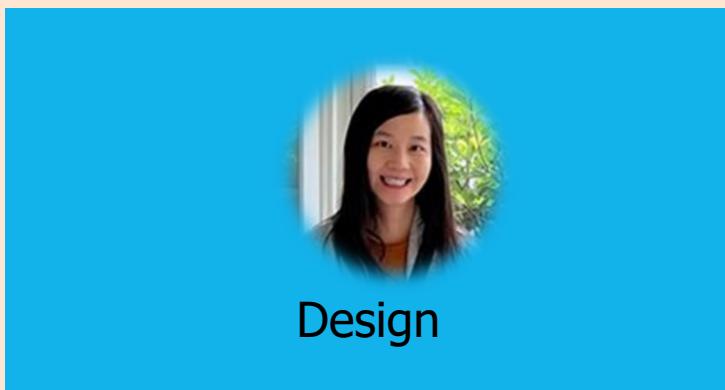
Each Visiting Voice represents those processes



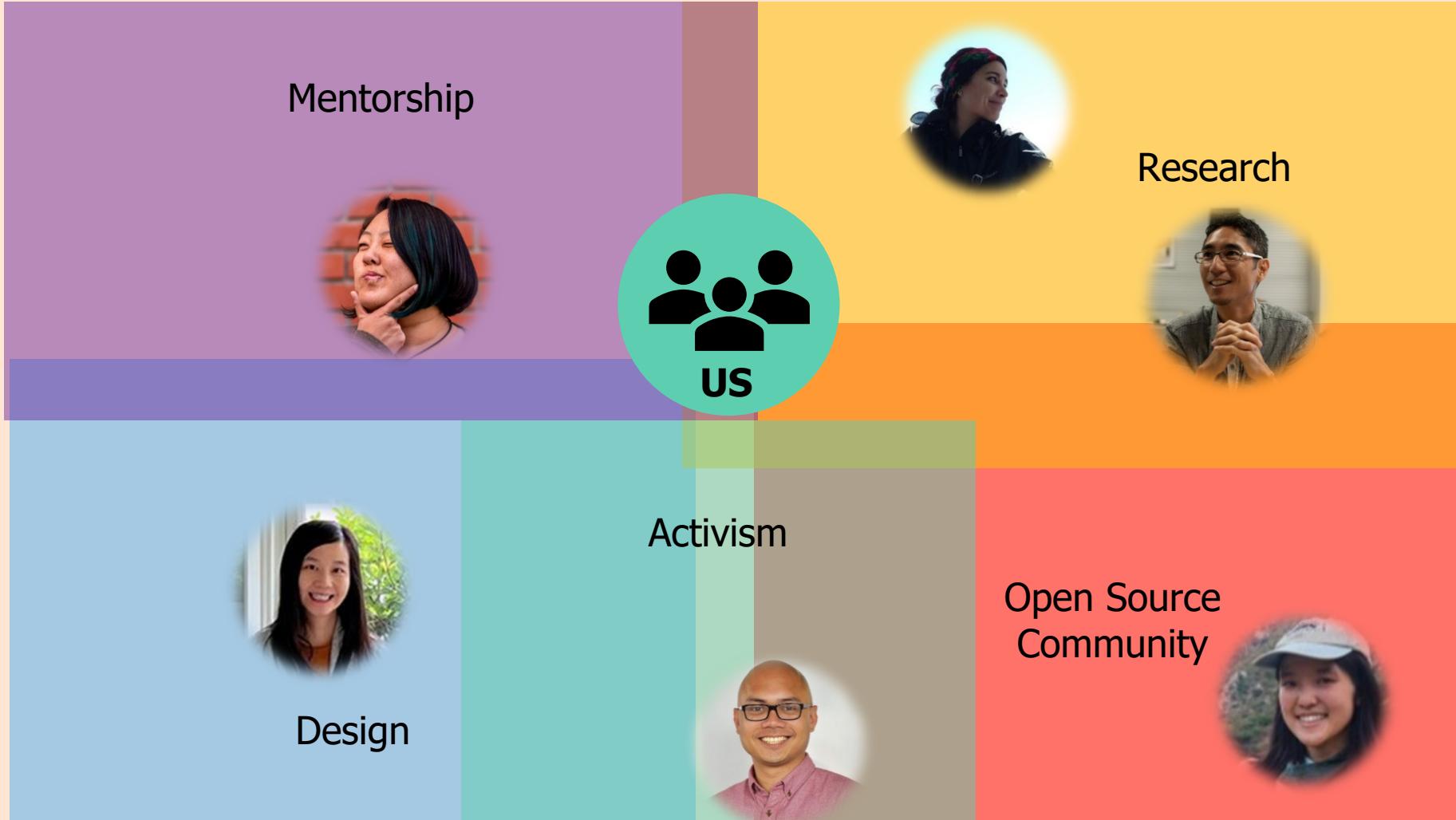
They were not separate boxes from each other...



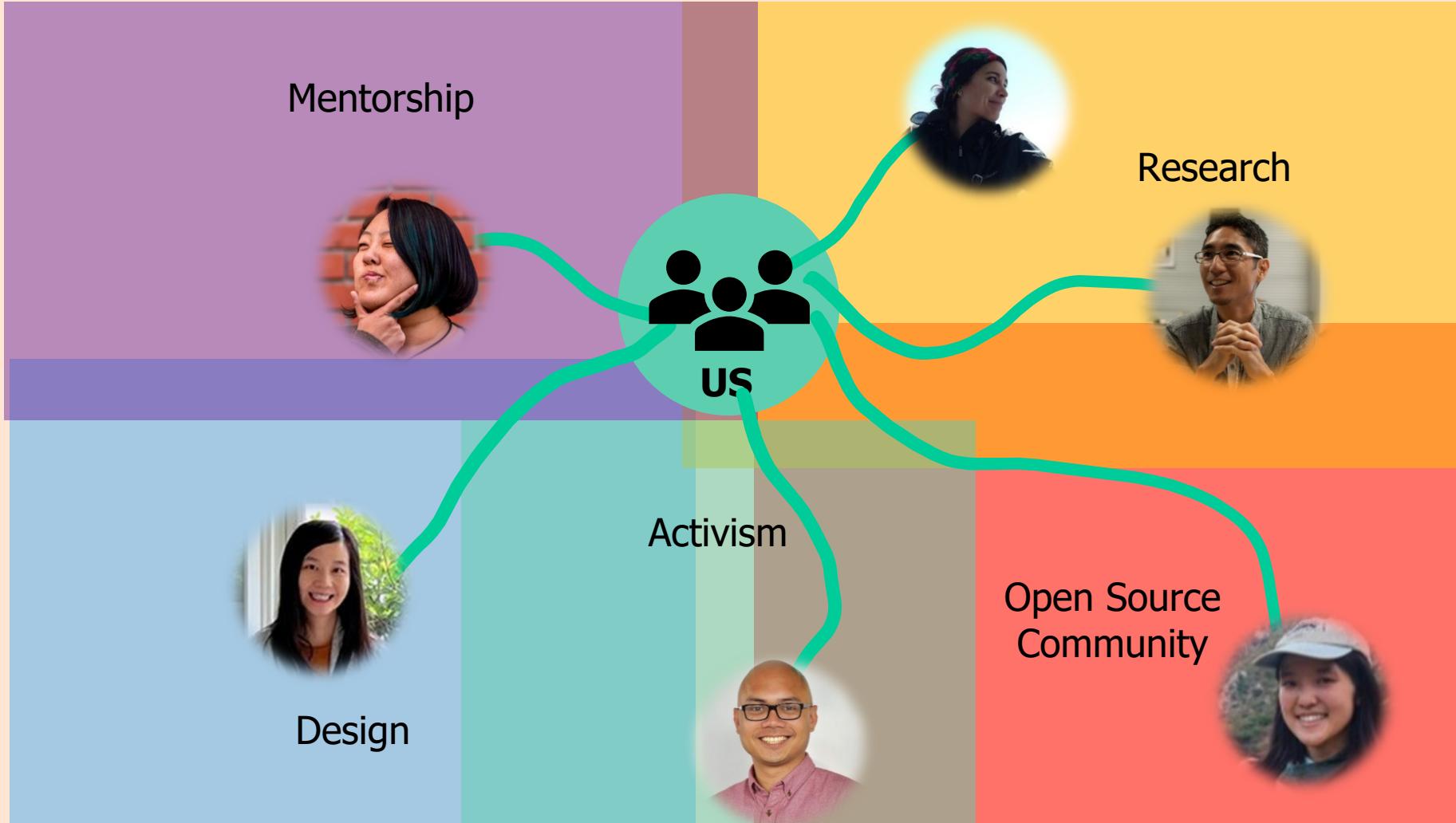
Each Visiting Voice represents these processes



They are interconnected non-boxes...



That build our network!



Point of the visiting voices:

Develop our web of connections

Or if you prefer JavaScript...

let myNetwork += yourNetwork!

One more JavaScript for the road:

```
let you = "Your Name";
let here = Date.now();
let message = "You finished the course" + you;

if ((you) && (here)){
    message += "and you are now my peer!"
    return message
}
else{
    message = "I hope you enjoyed this pirate course"
}
console.log(message)
```

Time to flip the (Java)script: We are all peers now!

We **should** share our knowledge and experiences with those beyond this class.

Remember this?

Community Care

- Post-event discussions and learnings
- Game nights and check-ins

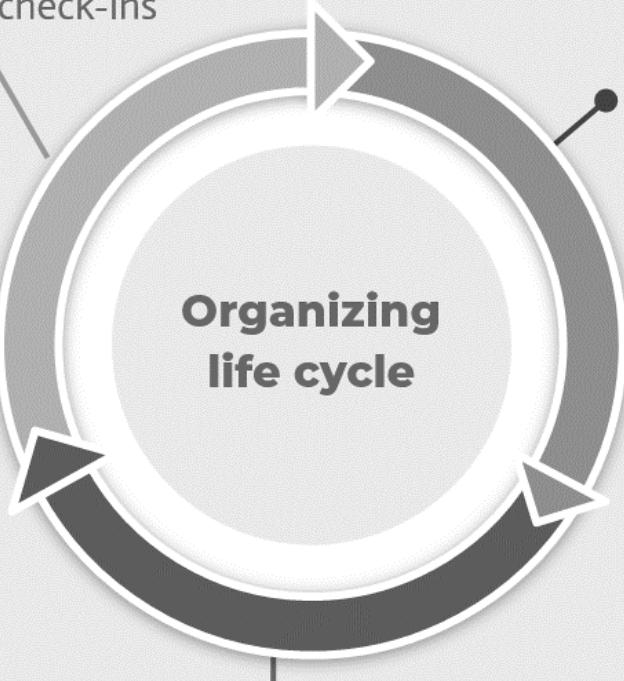
Issues-Based Organizing

- Strategizing on message
- Backchannel planning and delegation
- Conversations with elected officials

⚠
**Burnout
alert!**

Execution

- Send invitations, boost turnout
- Making meeting accessible
- Social media shenanigans
- Attend the event



Making **social change is a **social** process**

So, keep staying engaged!

How?

GIS



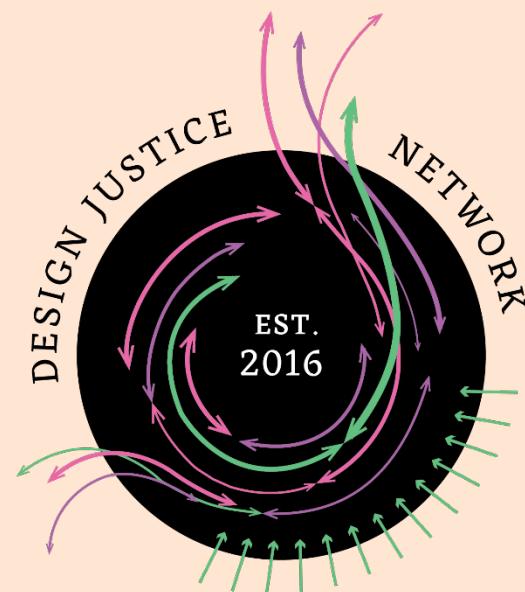
<https://gis-for-good-giscorps.hub.arcgis.com/>

Coding



<https://www.progcode.org/>

Design



<https://designjustice.org/>

Each of those have a “get involved” page

Best way to stay engaged:

Try something you are curious or passionate about and share that with the community to channel your energy

41.18. Case in point



NEWS

As anti-camping zones return for LA City Council vote, some experts map impact of such limits

Team of public health researchers maps out just how much of city would be subject to such a ban, if the ordinance passes on Wednesday.

By **ELIZABETH CHOU** | hchou@scng.com | Daily News

PUBLISHED: July 27, 2021 at 6:42 p.m. | UPDATED: July 27, 2021 at 7:20 p.m.

How my involvement in this issue started:

June 29, 2021

06/29/2021

hi Albert! I was wondering if you're still around on Discord. We're in need of urgent mapping for the proposed 41.18 motion

How its going:

 **Albert K** @albertkun · 3h ...

As a city we already spend way too much on policing in Los Angeles, why pass ordinance 41.18 to spend even more and further criminalize houselessness? We should be focusing on providing #HomesNotZones and a #Right2Rest.

More info:

Where can we be in the City of Los Angeles?



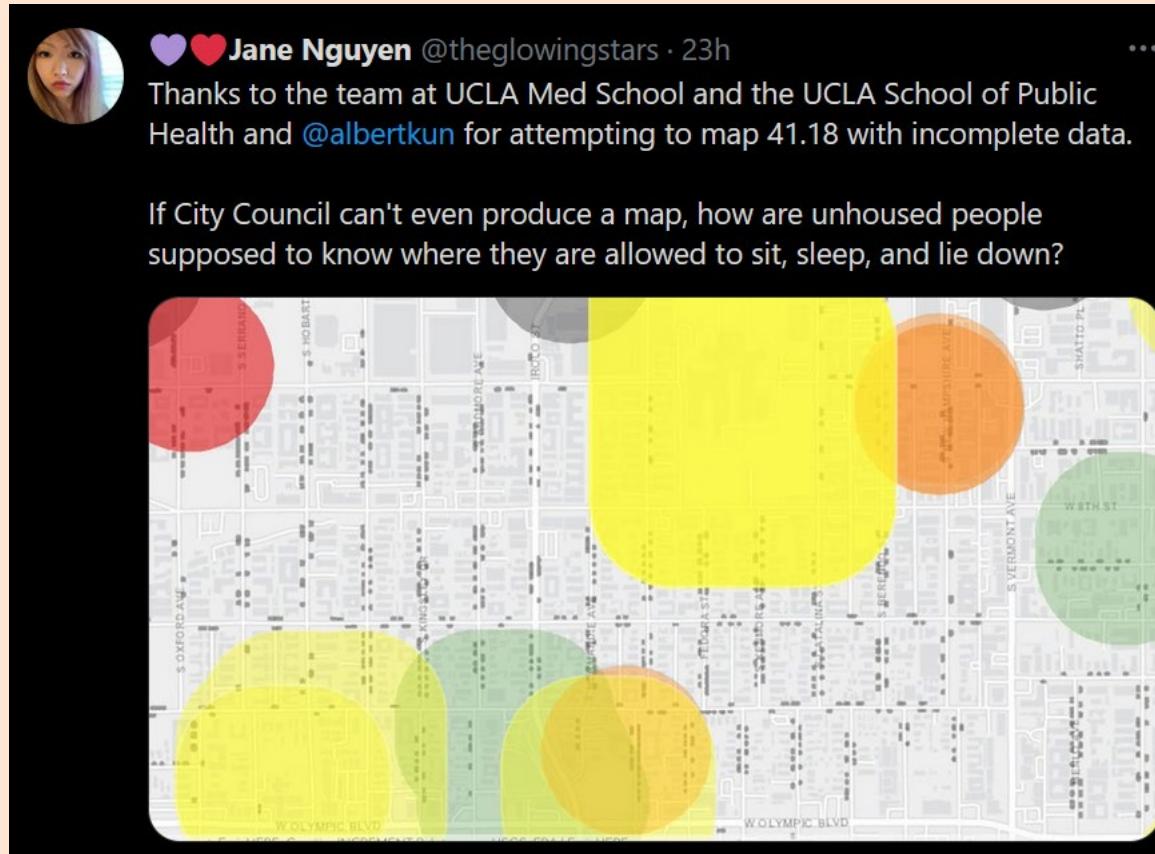
A map of the City of Los Angeles showing the 10% increase in policed area. The map highlights a small area in the central business district with a yellow overlay, labeled '10%'.

2 sections out of 11 in Ordinance 41.18 would **increase** the policed area of LAPD by about **10%***.

What about the rest

<https://twitter.com/albertkun/status/1420217742766993409>

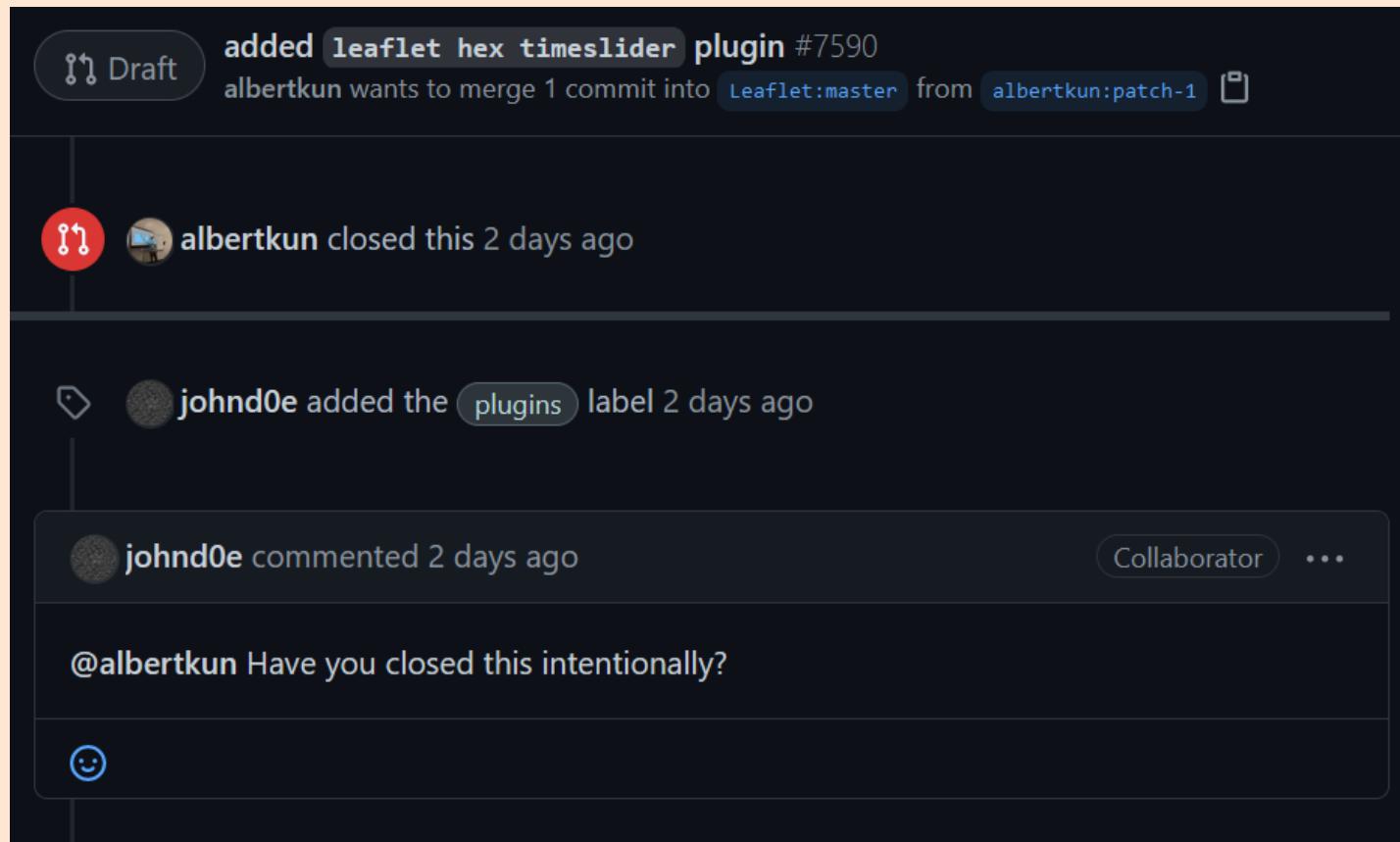
Community Organizations are always welcoming



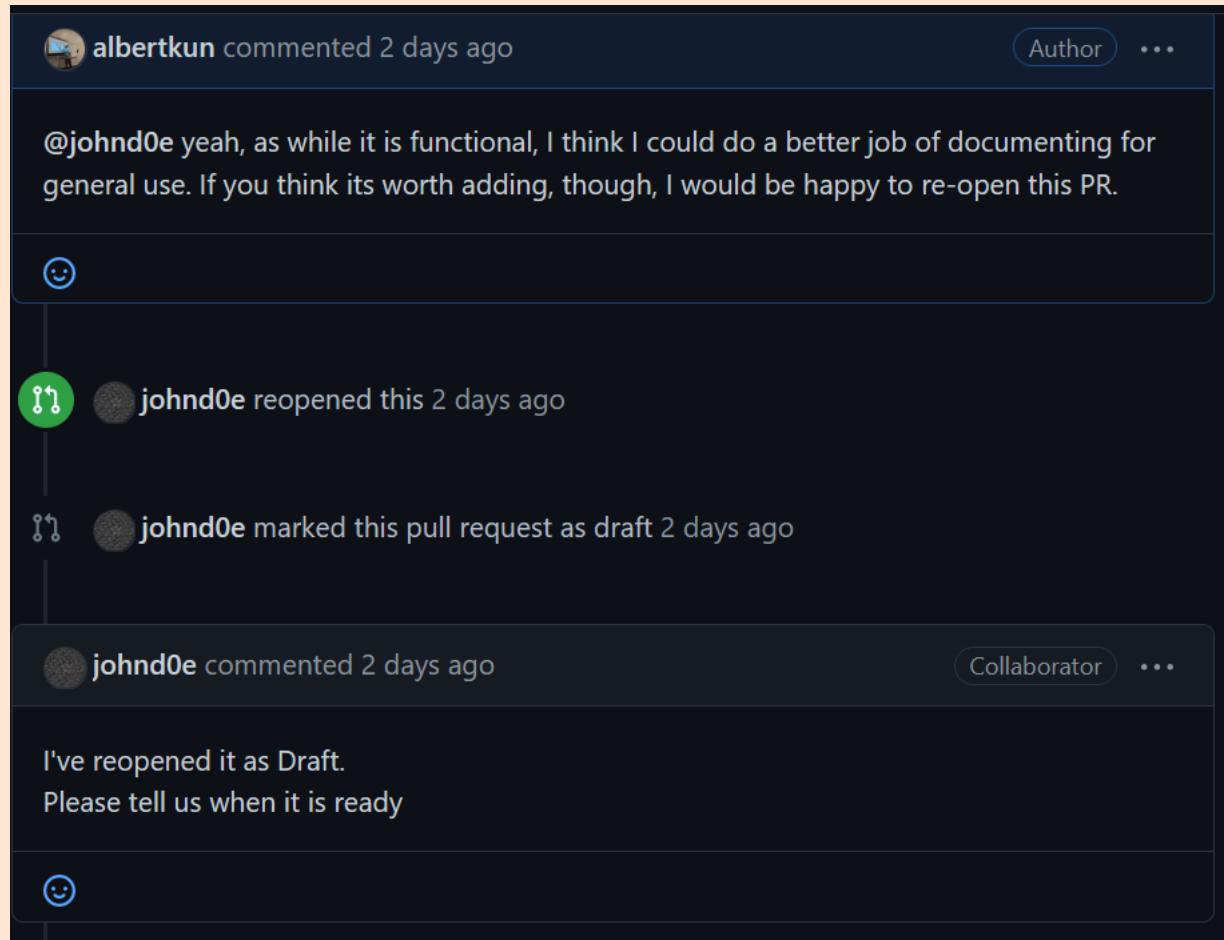
↳ <https://ktownforall.org/>

Don't be afraid of contributing...

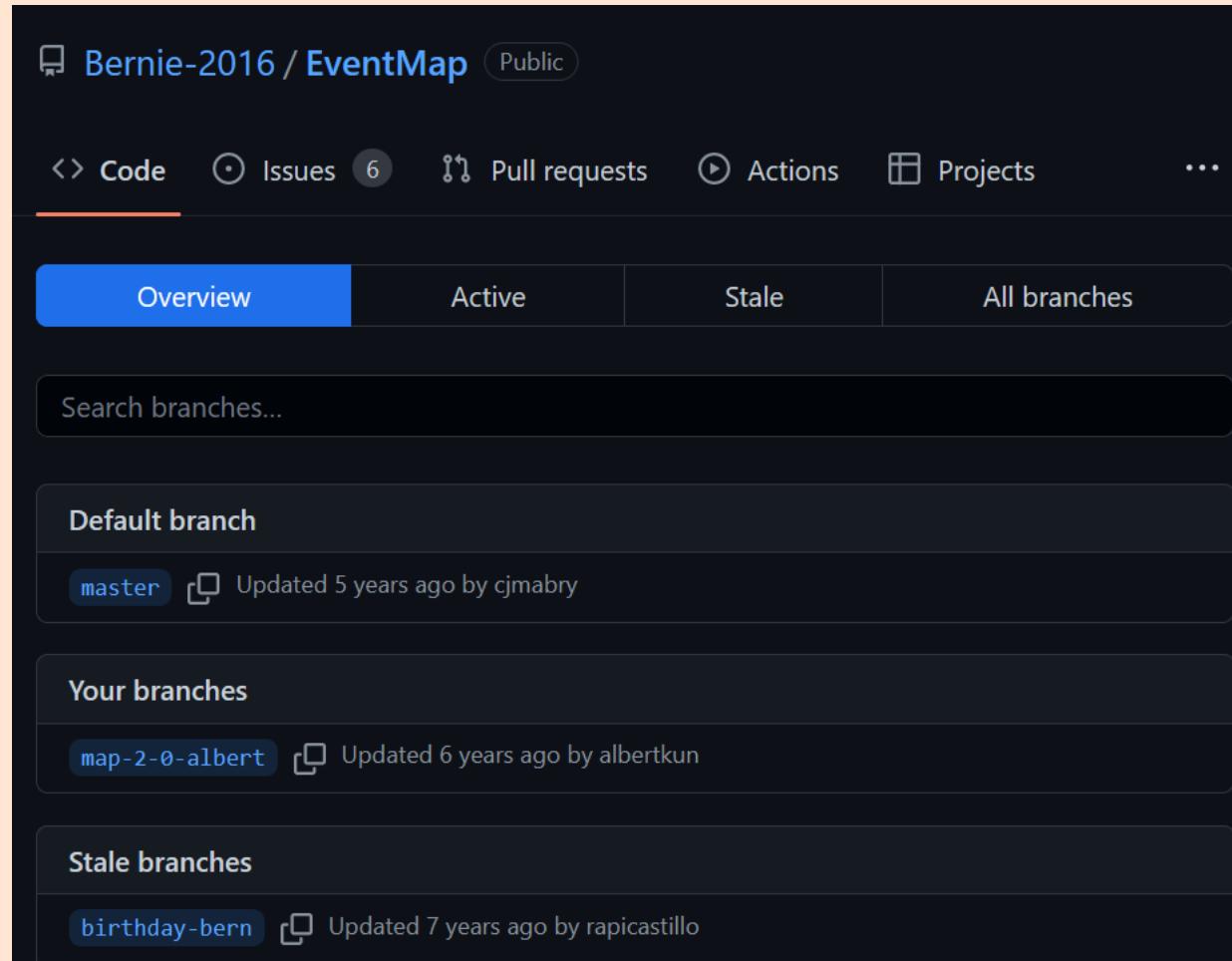
Open Source Community is always welcoming



Let's always pass on that goodwill forward!



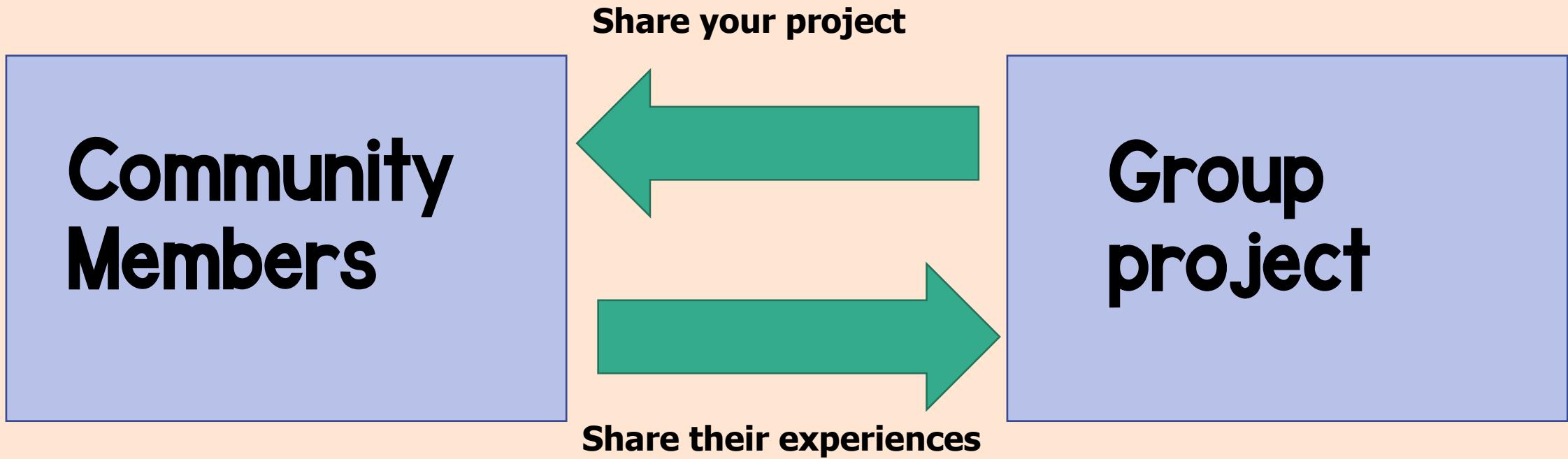
I became friends with Rapi through contributing code



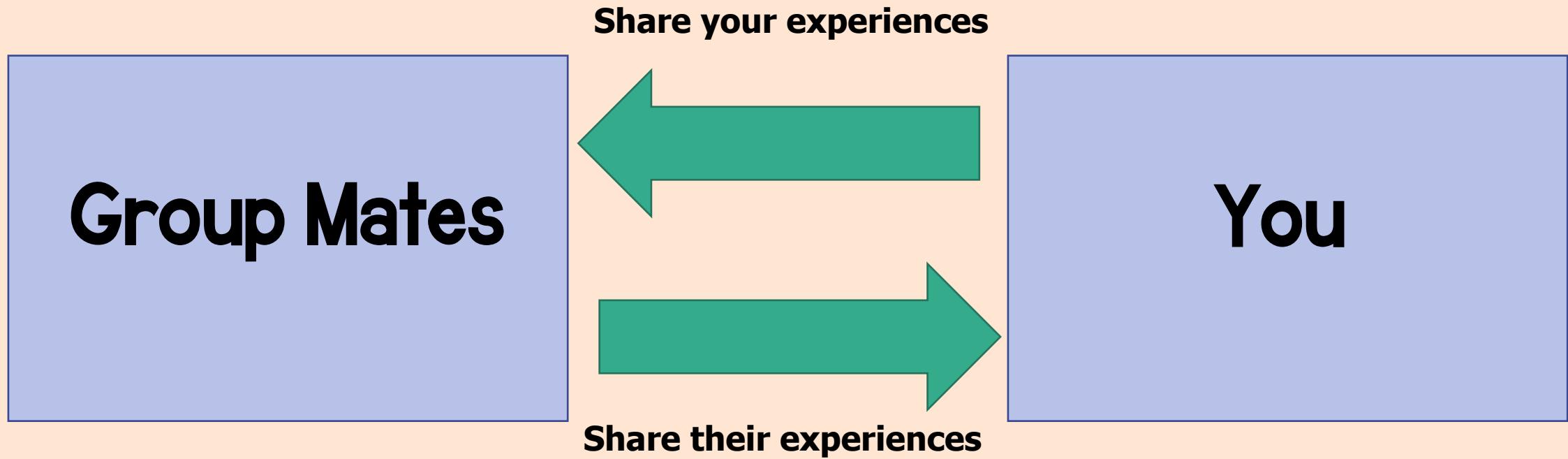
**The true nature of “[web development](#)” is creating
these welcome spaces for everyone to make a
difference.
(not just coders!!!)**

The final project puts all this into practice

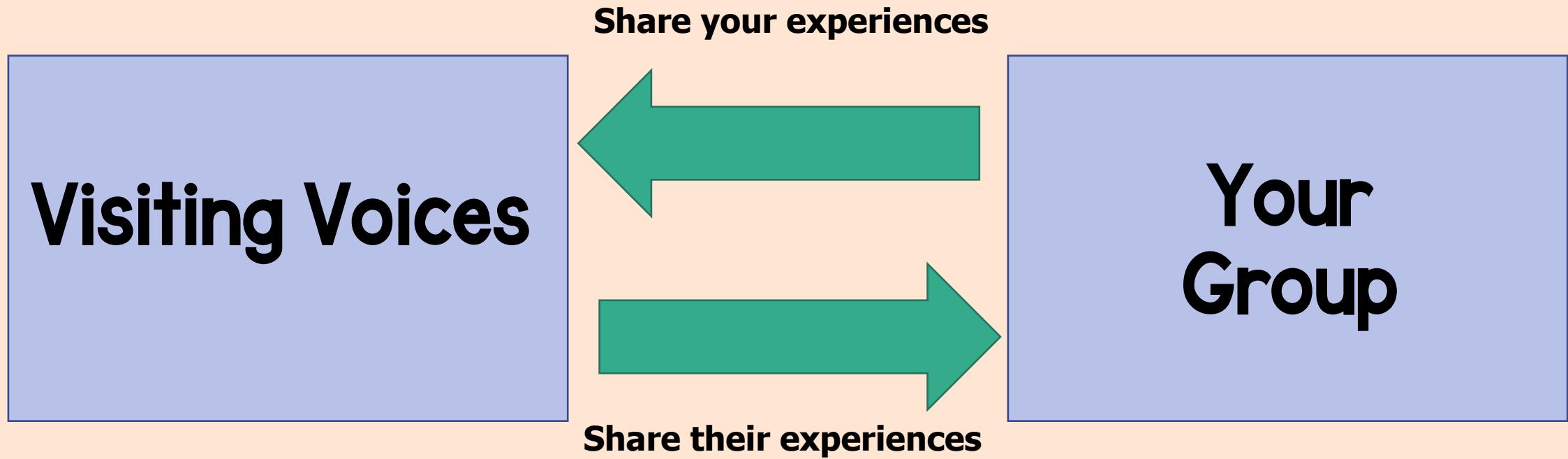
Final Presentations



Final Presentations



Final Presentations



Wrapping things up

Assignments

Final due Wednesday 6/8

**Class Material, GitHub repo, and Discussions
will always be open source**

<https://albertkun.github.io/22S-ASIAAM-191A/>

The Discord server will be around too!

ALumni Newsletter

Staying connected after the class

July "Welcome to Design Justice" Online Social

The [Design Justice Network](#) is having a "[welcome](#)" on [July 10th, 5pm PST](#)! I'd like to attend and also host a social event afterwards in the spirit of Lucy and not burning out, respond below if you'd like to participate in either the online social and the Design Justice webinar!

For the social I am thinking party games like, online pictionary, Jackbox.tv, and/or Among Us. We can also screen movies/shorts or raid Lucy's live stream! This event will take place on [Discord](#).

Register and learn more about the "Design Justice Network Welcome" here:
<https://designjustice.org/events-1/2021/3/28/welcome-to-the-design-justice-network-meeting-1pm-et-gmt-04-rethl-sylde>

I'm interested in this event!

Opport-June-ities

Here are some opportunities of interest:

[Paid] [June 21-24] [\$150] Asian American COVID-19 Public Service Announcement

Breanne Hamilton is a producer local to Los Angeles and her team, [Lion Heart Films](#), is working on a PSA about the importance of the COVID-19 vaccine for

<https://albertmaps.com/newsletter/>

Staying connected after the class

Spring 2022 Koreatown Wind down

RSVP for winding down from the Spring quarter in Koreatown between 6th Street and Alexandria on June 10th from 4pm to 8pm!

What would you like to do?

if you have suggestions, put it under other with a time!

- Boba (4p-5p)
- Dinner (5p - 6pm)
- Desserts (6pm - 7pm)
- Karaoke (7pm - ????)
- Other: _____

**If you can make it, see you at the Koreatown
wind down!**

(previous class alumni are invited too!)

Final Exercise



Final Exercise –

**Time for you to
Pie-Rate the course**

Final Exercise

- 1. Get Pie**

- 2. Take 5 – 10 minutes to fill out the class evaluation forms.**
<https://be.my.ucla.edu/>

- 3. Go to this Google Doc and find your name**
<https://docs.google.com/document/d/1djwzmSTmr1XdEYdkosqEoY55DfYAgwVJKzu8g5e3stU/edit?usp=sharing>

- 4. Optional: Please rate the class on BruinWalk too!**

One Piece of last advice...



Equivalent Exchange



Empowering civil society means that civil society empowers us all too.

Remember this?

**Our experiences and the communities we empower
is objective.**

~~Equivalent Exchange~~



Above all that, the experiences we share together
have no equivalence.

If you are feeling **low** that this course is ending..

Then let's end on a



note:

This course never ends!

Why?

No matter where we go and what we do...

Web Development and GIS for Social Change: Critical Data for Transforming Civil Society

So, let's keep developing together!

THANK YOU!!

Stay in touch!



albertk@gmx.com



@albertkun