



ConditionALs, Map Layers, and Visual Design

Putting the “us” into Design Justice

Logistics
Lecture
Lab

Join at
slido.com
#ucla

Albert Kochaphum
Lab 7 | May 18th, 2023



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Lab (but really Lecture) 7! How are you feeling today?





Join at
[slido.com](https://www.slido.com)
#ucla

What were your thoughts on the group exercise?

pretty helpful



very helpful!!!

eh

helpful

Decent

fine

It was helpful



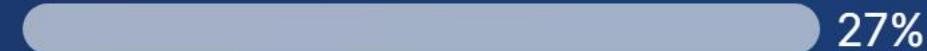
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Extension for Group Assignment #4 Wire-frames?

Doesn't matter



Yes, please even though that means we get less time to work on rough draft



No, keep it to Tuesday!





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slido.com
#ucla

What do you think of lecture/lab format?

Good way to cover lots of content

60%

Doesn't matter!

27%

Not good, way too much information!

13%

Logistics

Putting the “us” into Design Justice



**Logistics
Lecture
Lab**

Group Assignment #4 due Tuesday!



Should revise your survey as soon as possible to make the assignment easier!

Not many assignments left!

- **1 Lab**
- **2 Thinking Caps**
- **2 In-class assignments**
(Lab and Thinking Cap)
- **2 Group Assignments**

Light at the end of tunnel!

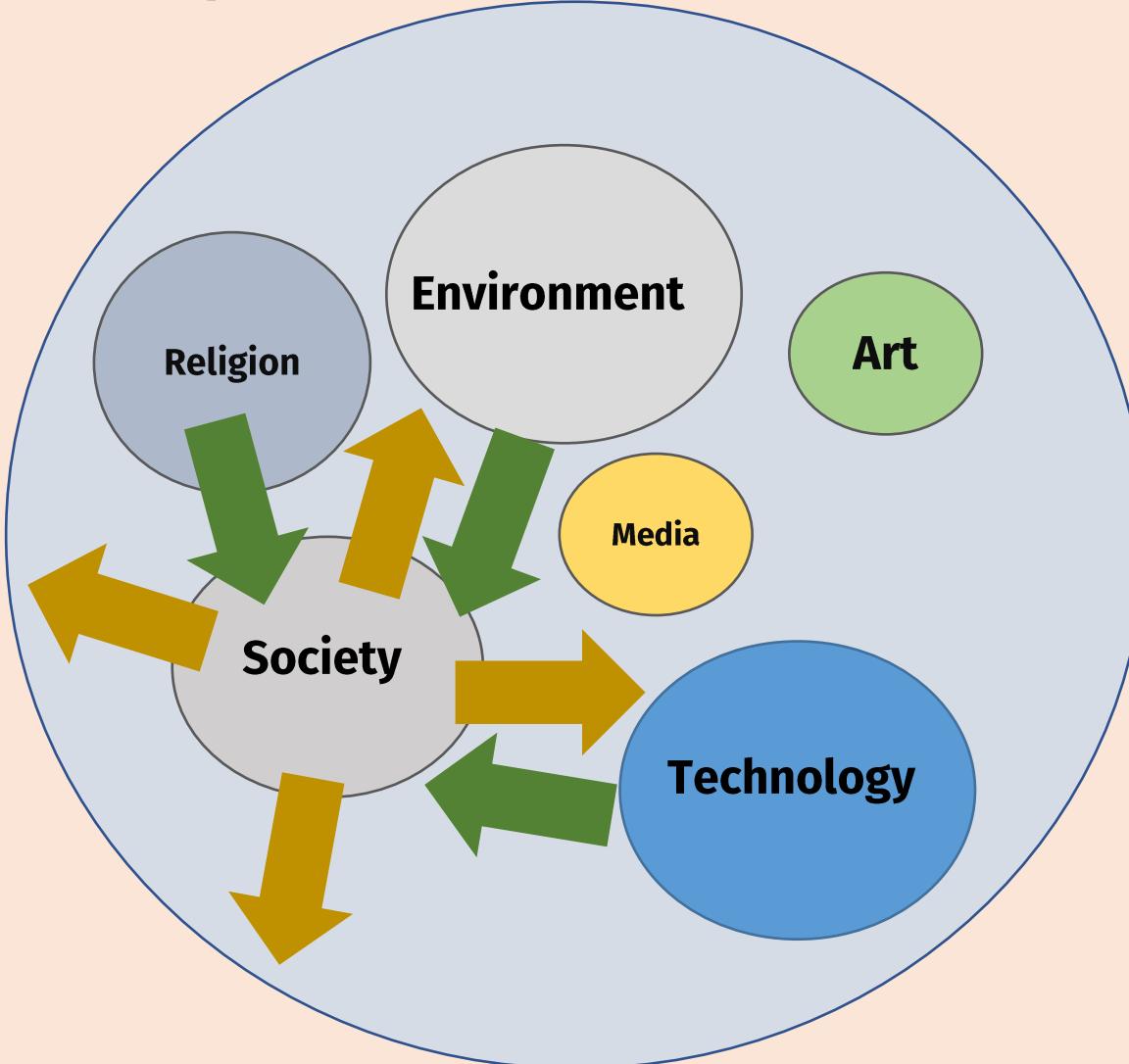
Data Justice

Putting the “us” into Design Justice



Logistics
Lecture
Lab

Design Justice.....



Pushes back from the interplay of other forces, by healing, sustaining, and empowering civil society

What do you do when.....

Science and Society are at odds....

How do you apply design justice here?

THERE THEY GO | MAY 5 by DAN ROBITZSKI

Biotech Company Officially Unleashes Gene-Hacked Mosquitoes in Florida

After a decade of local resistance, Oxitec got its way.

/ Hard Science / Environment / Genetics / Mosquitoes

<https://futurism.com/biotech-unleashes-gene-hacked-mosquitoes-florida>

How do you apply design justice here?

Florida approves extension of field trial of GE mosquitoes despite concerns

But scientists, environmental groups and public health experts warned that the Florida Department of Agriculture's (FDAC) approval for Oxitec's continued field trial came despite major health and ecosystem concerns.

By **Ashley Curtin** - May 6, 2022

👁 485

<https://www.nationofchange.org/2022/05/06/florida-approves-extension-of-field-trial-of-ge-mosquitoes-despite-concerns/>

“Who” you choose to empower is more difficult than the technical “what”

What about people rejecting vaccinations?

Reaching ‘Herd Immunity’ Is Unlikely in the U.S., Experts Now Believe

Widely circulating coronavirus variants and persistent hesitancy about vaccines will keep the goal out of reach. The virus is here to stay, but vaccinating the most vulnerable may be enough to restore normalcy.



By [Apoorva Mandavilli](#)

Published May 3, 2021 Updated May 7, 2021

What about people rejecting vaccinations?

Fauci says herd immunity is ‘likely unattainable’ with COVID-19

April 29, 2022

https://news.yahoo.com/fauci-says-herd-immunity-likely-161932300.html?fr=syccsrp_catchall

What about “declaring the end of COVID”?

The New York Times

SUBSCRIBER-ONLY NEWSLETTER

David Wallace-Wells

OPINION

Apparently the Pandemic Emergency Is Over

May 5, 2023



<https://www.nytimes.com/2023/05/05/opinion/covid-pandemic-emergency-over.html>

Justice and Society at odds.....

When do you stand up to corporations with powerful influence?



COP28 climate team queried over ties to national oil company

The UN is inquiring if the climate team is independent of the Abu Dhabi National Oil Company, as both are headed by the same person.



BY FEDERICA DI SARIO, GIAN VOLPICELLI AND KARL MATHIESON

JANUARY 22, 2023 | 3:45 PM CET | 4 MINUTES READ

<https://www.politico.eu/article/cop28-climate-team-uae-shares-offices-un-abu-dhabi-national-oil-company-ahmed-al-jaber/>

When do you stand up to corporations with powerful influence?

The
Guardian

Shell accused of ‘profiteering bonanza’ after record first-quarter profits of \$9.6bn

Jillian Ambrose Thu 4 May 2023 08.58 EDT



<https://www.theguardian.com/business/2023/may/04/shell-makes-record-quarterly-profits-of-nearly-10bn>

When do you stand up to corporations with powerful influence?

The
Guardian

Floodlight Louisiana

In 'Cancer Alley', US chemical giants mount campaign against grassroots organizers

Chevron and ExxonMobil are among the companies in a 'sustainability council' countering grassroots activists

Pam Radtke for Floodlight Thu 4 May 2023 06.00 EDT



<https://www.theguardian.com/environment/2023/may/04/cancer-alley-louisiana-environment-oil-industry-opposition>

When do you stand up to corporations with powerful influence?

Shell chemical plant that burned near Houston had a record of nearly 2,000 violations

MAY 9, 2023

Brendan Gibbons



<https://news.oilandgaswatch.org/post/shell-chemical-plant-that-burned-near-houston-had-a-record-of-nearly-2-000-violations>

Should we even??



The Carbon Majors Database

100 fossil fuel producers and nearly 1 trillion tonnes of greenhouse gas emissions



<https://cdn.cdp.net/cdp-production/cms/reports/documents/000/002/327/original/Carbon-Majors-Report-2017.pdf?1501833772>

Should we even??

The
Guardian

News | Opinion | Sport | Culture | Lifestyle

Environment ► Climate crisis Wildlife Energy Pollution Green light

Guardian sustainable business

Just 100 companies responsible for 71% of global emissions, study says

A relatively small number of fossil fuel producers and their investors could hold the key to tackling climate change



<https://www.theguardian.com/sustainable-business/2017/jul/10/100-fossil-fuel-companies-investors-responsible-71-global-emissions-cdp-study-climate-change>

When do you stand up to corporations with powerful influence?

The New York Times

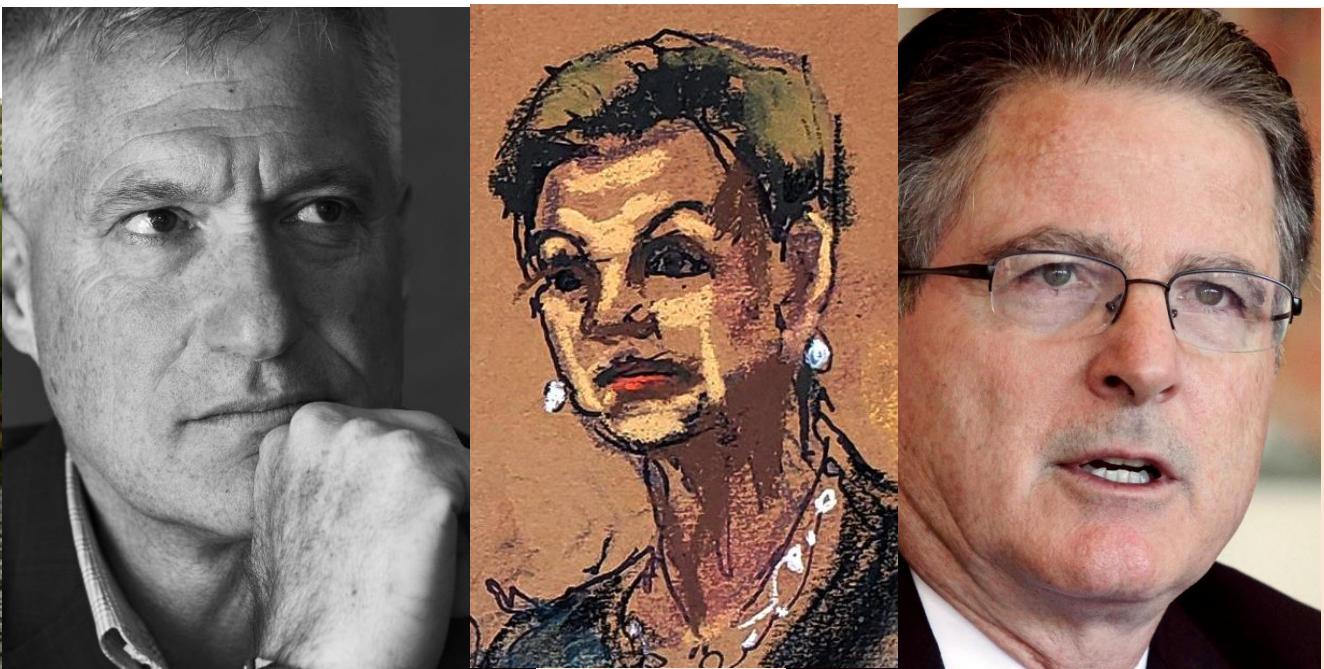
Ecuador Judge Orders Chevron to Pay \$9 Billion

Local residents washed in the contaminated Santa Fe River, in the oil producing Amazon region of Ecuador. Moises Saman for The New York Times



Crime & Justice

Lawyer on trial a decade after winning huge Ecuador verdict against Chevron



When do you stand up to corporations with powerful influence?

'I've Been Targeted With Probably the Most Vicious Corporate Counterattack in American History'

Steven Donziger has been under house arrest for over 580 days, awaiting trial on a misdemeanor charge. It's all, he says, because he beat a multinational energy corporation in court. ▶



By Jack Holmes Mar 18, 2021



<https://www.esquire.com/news-politics/a35812573/steven-donziger-chevron-house-arrest/>

When do you stand up to corporations with powerful influence?



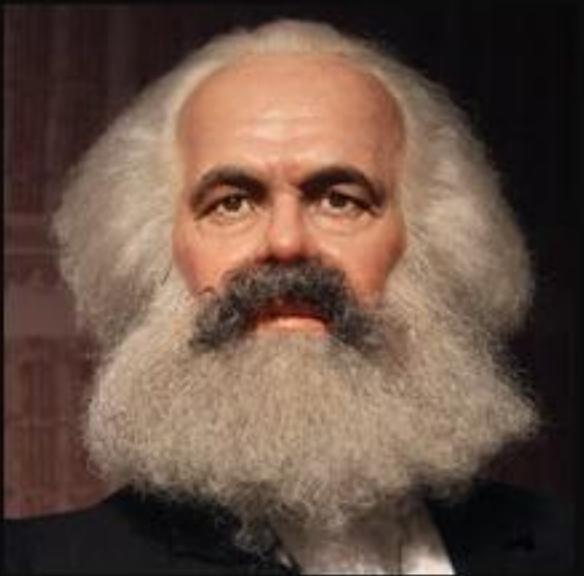
<https://www.thenation.com/article/society/caitlin-halligan-judge-donziger-chevron/>

Why is this allowed to happen?

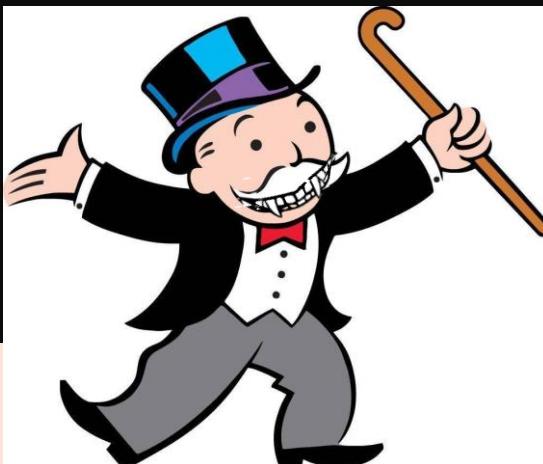
Because Capitalists suck.

Literally:

— Karl Marx —



Capital is dead labor, which, vampire-like, lives only by sucking living labor, and lives the more, the more labor it sucks.



Marx my words: More money leads to more exploitation.

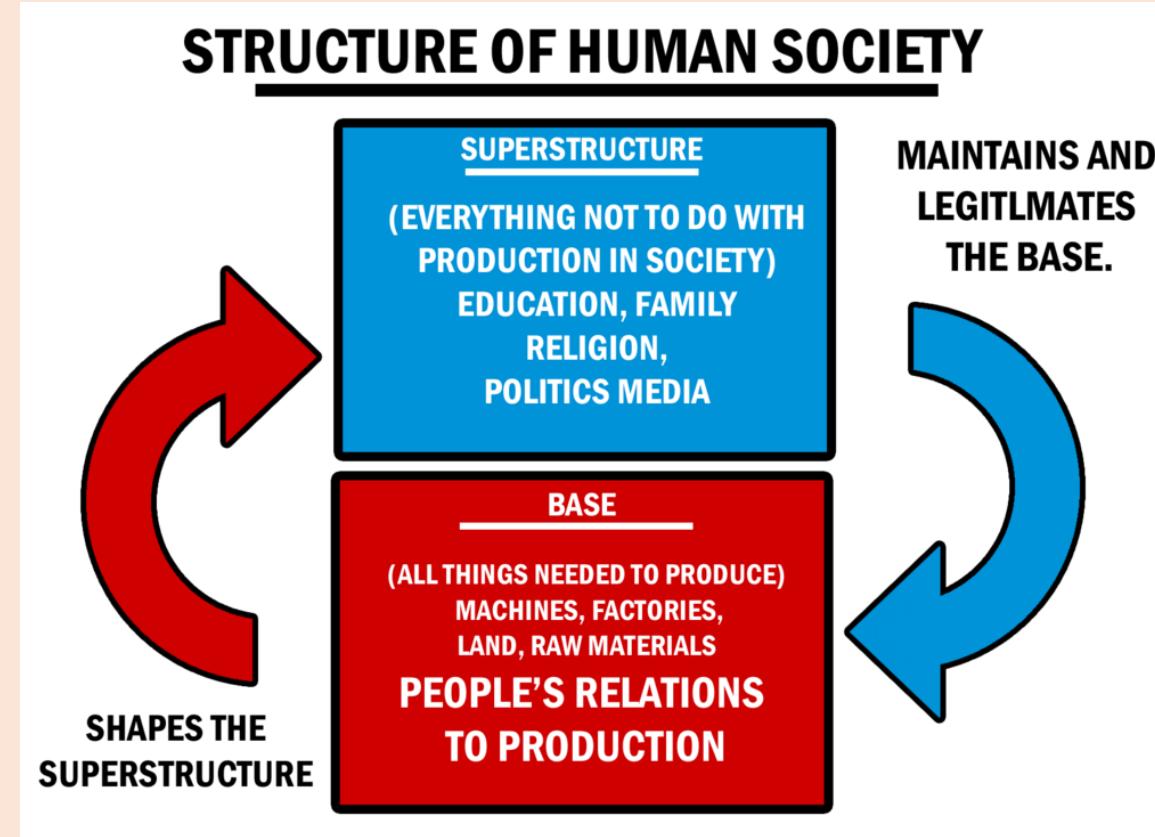
Unlimited exploitation of cheap labour-power is the sole foundation of their power to compete.

“**THERE MUST BE
SOMETHING ROTTEN
IN THE VERY CORE
OF A SOCIAL SYSTEM
WHICH INCREASES
ITS WEALTH
WITHOUT DIMINISHING
ITS MISERY.**”

KARL
MARX
MAY 5, 1818 – MARCH 14, 1883

It just leads to more **exploitation** of the environment, society, and people.

False consciousness allows this to happen



The **owners of production** (rich) make it so that the **workers** (poor/working class) cannot believe an alternative.

One last note:

Socialism



Autocracy

Dictatorship

**No personal
property**

Socialism just means that the **WORKERS** are the **OWNERS** of production,
so there is no “**ruling class**”.

Housing, health care, etc. becomes a right not privilege!

Socialism in the USA

Public Roads

Police

Fire department

Social Security

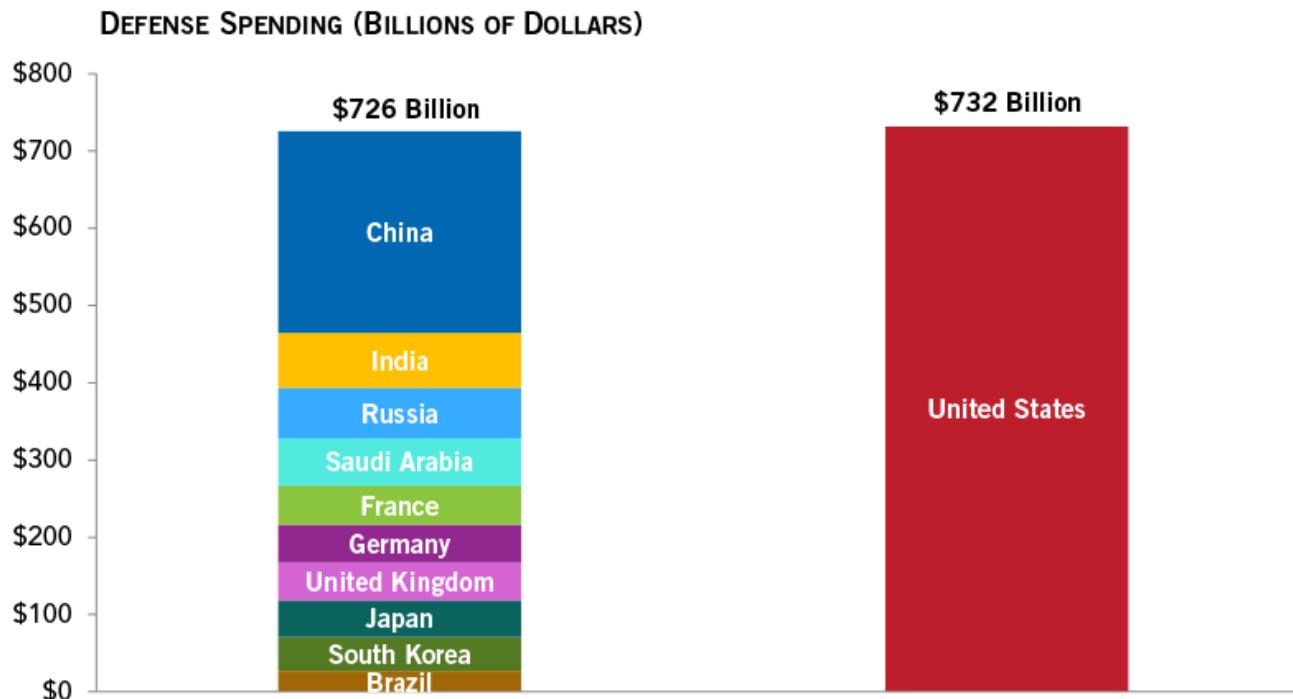
Subsidies (Oil, Gas, Weapons)

Seems prevalent?

Socialism in the USA



The United States spends more on defense than the next 10 countries combined



SOURCE: Stockholm International Peace Research Institute, SIPRI Military Expenditure Database, April 2020.

NOTES: Figures are in U.S. dollars converted from local currencies using market exchange rates. Data for the United States are for fiscal year 2019, which ran from October 1, 2018 through September 30, 2019. Data for the other countries are for calendar year 2019. The source for this chart uses a definition of defense spending that is more broad than budget function 050 and defense discretionary spending.

© 2020 Peter G. Peterson Foundation

PGPF.ORG

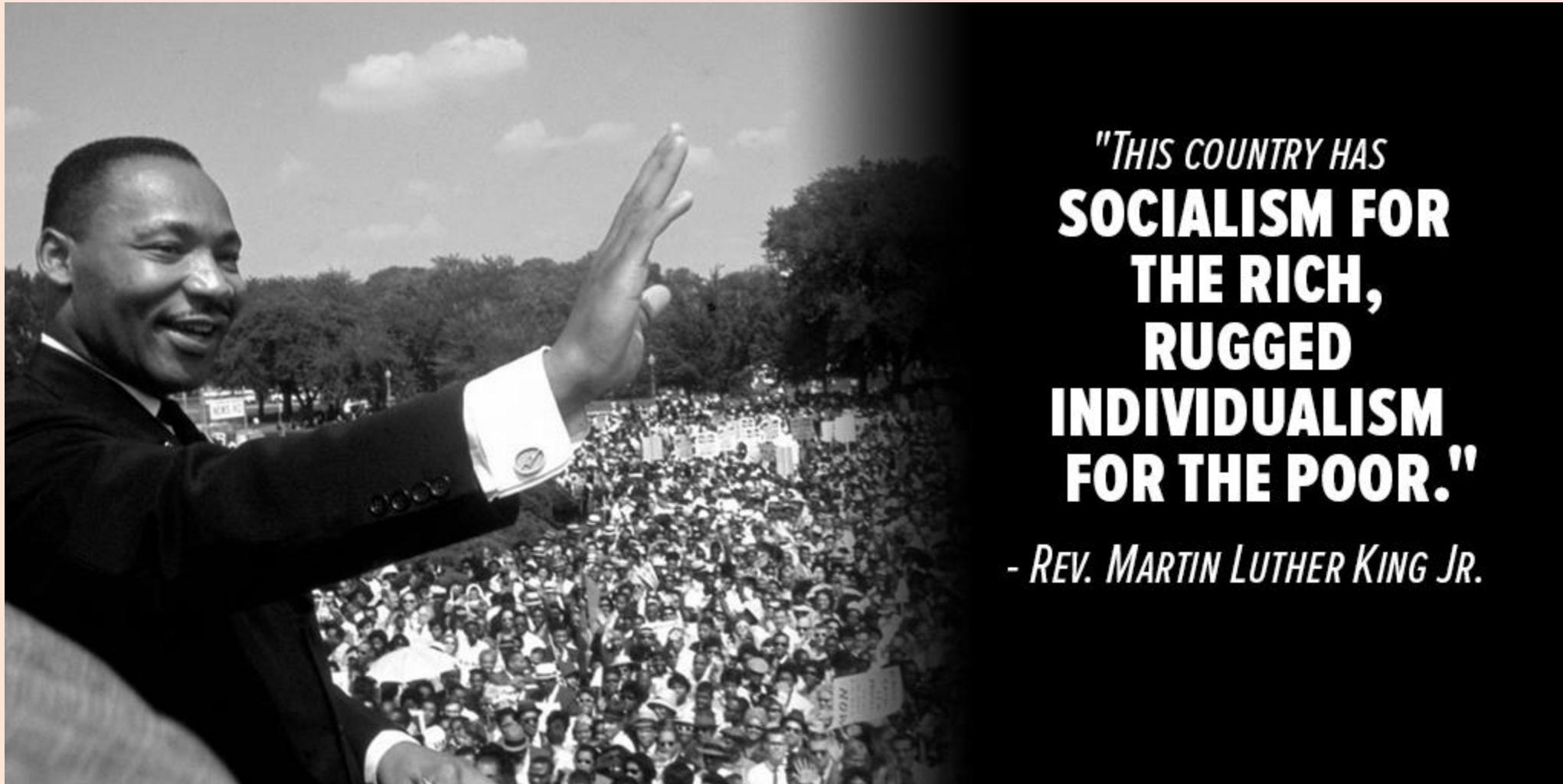
We heavily socialize military.

Who said this?

"THIS COUNTRY HAS
**SOCIALISM FOR
THE RICH,
RUGGED
INDIVIDUALISM
FOR THE POOR."**

Hint: A dream.

Martin Luther King Jr.



"THIS COUNTRY HAS
**SOCIALISM FOR
THE RICH,
RUGGED
INDIVIDUALISM
FOR THE POOR."**

- REV. MARTIN LUTHER KING JR.

We'll pay him a visit later!

Revisiting Design Justice to.....

Do it justice.

And put us in it.

Because

Clearly the current system is not working.

Let's Link ethics and action together



Thinking about your group project

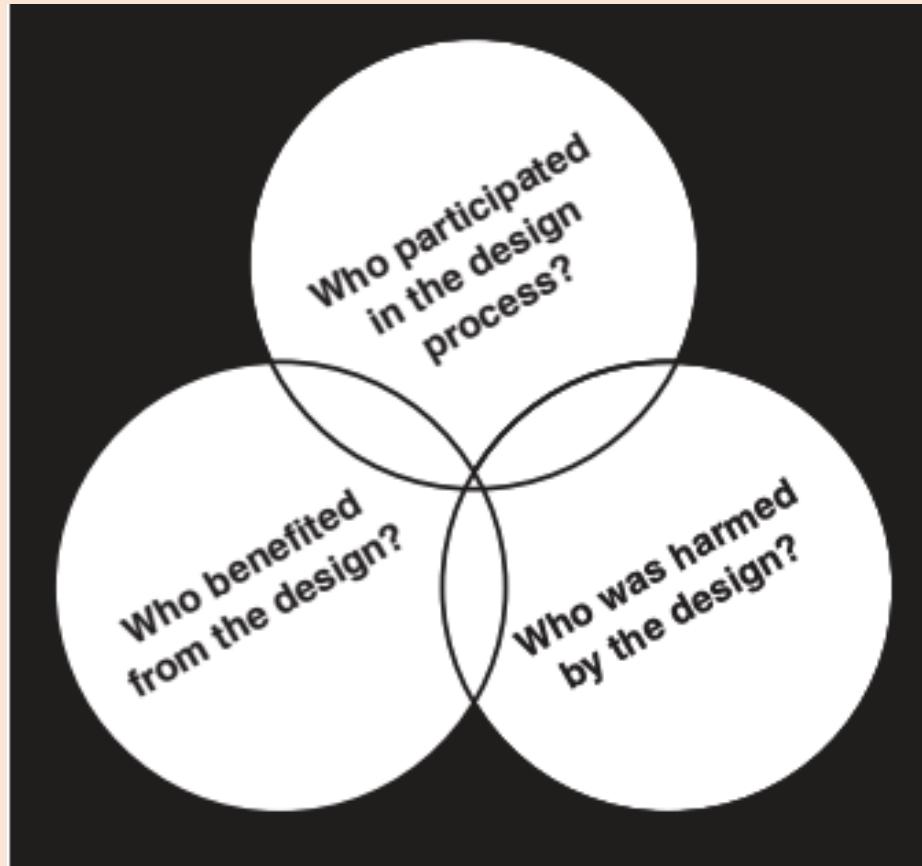
Reflect on these questions

- **How close am I to the issue at hand?**
- **Does this community want me to work on this project?**
- **Am I the appropriate person to work on this project?**
- **How can I step back and facilitate the design of solutions by the community?**

Let's Link design justice and data together



Your user stories and Design Justice



You can use the diagram above to think about your users in relation to designing your mapplication

Your user stories and Design Justice

Network News

Submit a news item

[See all →](#)



2023 Issue #02, Design
Justice Newsletter

Mar 17, 2023

Upcoming Events

Submit an event

[See all →](#)



Design Justice is relatively new, so you can get involved easily!

Data Justice

What is Data Justice?

Fairness in the way people are:

1. Made visible
2. Represented
3. Treated

That involve their digital data.

Why bring up data justice now?

We are collecting data next week!!!

Why bring up data justice now?

Personal data and data privacy should be a right, like clean air, water, food, and housing.

Why bring up data justice now?

The screenshot shows a news article from the website 'Futurism'. The header features the word 'Futurism' in a large, bold, black font. To the left of the title is a menu icon (three horizontal lines) and to the right is a search icon (magnifying glass). Below the title, the author's name 'MAGGIE HARRISON' is mentioned along with the publication date 'MAY 11'. The main headline is 'Google Unveils Plan to Demolish the Journalism Industry Using AI', displayed in a large, bold, black font. A subtitle below the headline reads 'This could change everything.' At the bottom of the article excerpt, there is a small line of text indicating the categories: '/ Artificial Intelligence / Ai / Google / Large Language Models'.

UPSIDE DOWN | MAY 11 by MAGGIE HARRISON

Google Unveils Plan to Demolish the Journalism Industry Using AI

This could change everything.

/ Artificial Intelligence / Ai / Google / Large Language Models

Surveillance capitalism and fascism are fast growing issues.

<https://futurism.com/google-ai-search-journalism>

Why bring up data justice now?

"Google has unveiled its vision for how it will incorporate AI into search," [tweeted](#) [The Verge's James Vincent](#). "The quick answer: it's going to gobble up the open web and then summarize/rewrite/regurgitate it (pick the adjective that reflects your level of disquiet) in a shiny Google UI."

Research [has shown](#) that information consumers hardly ever make it to even the second page of search results, let alone even the bottom of the page. And worse, it's not like Google's taking clicks away from its longtime information merchants by hiring an army of human content writers to churn out summarization. [Google's new search interface, which is built on a model that's already been trained by way of boatloads upon boatloads of unpaid-for human output](#), will seemingly be swallowing even more human-made content and spitting it back out to information-seekers, all the while taking valuable clicks away from the publishers that are actually doing the work of reporting, curating, and holding powerful interests like Google to account.

Chrome user search patterns and behaviors is being used to train all this!



Why bring up data justice now?

WHO, ME? | MAY 13 by MAGGIE HARRISON

Google CEO Baffled by Suggestion That AI Will Take People's Jobs

He's stumped.

/ Artificial Intelligence / Ai / Google / Labor



Unsurprising that “Google/Alphabet” took away the “Do no evil” slogan years ago..

<https://futurism.com/google-ceo-baffled-ai-take-jobs>

Los Angeles Writers Guild Strike 2023

Los Angeles Times

Letters to the Editor | How to submit a letter | Tips | View All >

LETTERS TO THE EDITOR

Letters to the Editor: The writers' strike isn't just about AI — and AI threatens more than writers



Concern that studios will downgrade screenwriters to reworking AI-produced scripts is one issue behind the Writers Guild of America strike. (Jay L.

MAY 15, 2023 11:45 AM PT

AI is part of the issue, but the main issue is about society being unequal.

<https://www.latimes.com/opinion/letters-to-the-editor/story/2023-05-15/writers-strike-ai-regulations-jobs>

Some key



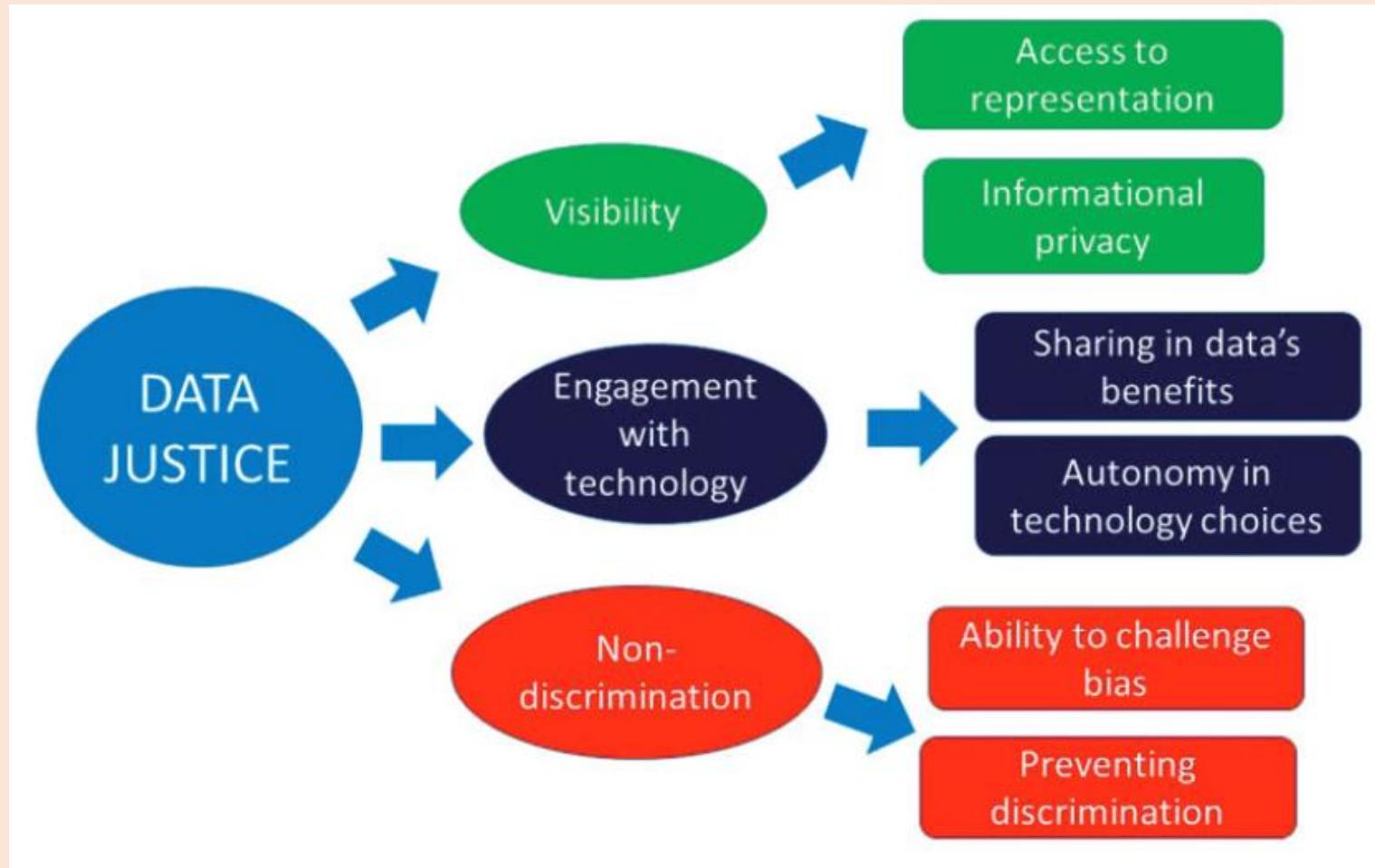
s about
Data Justice

Three pillars of data justice

- (in) visibility
- (dis) engagement with technology
- non-discrimination

Note the **opposite** of the first two concepts.

Connecting Design Justice to Data Justice



[What is data justice? The case for connecting digital rights and freedoms globally](#)

Consider your surveys

(In)Visibility

- How are you making community data visible?
- How are you allowing data to be removed?

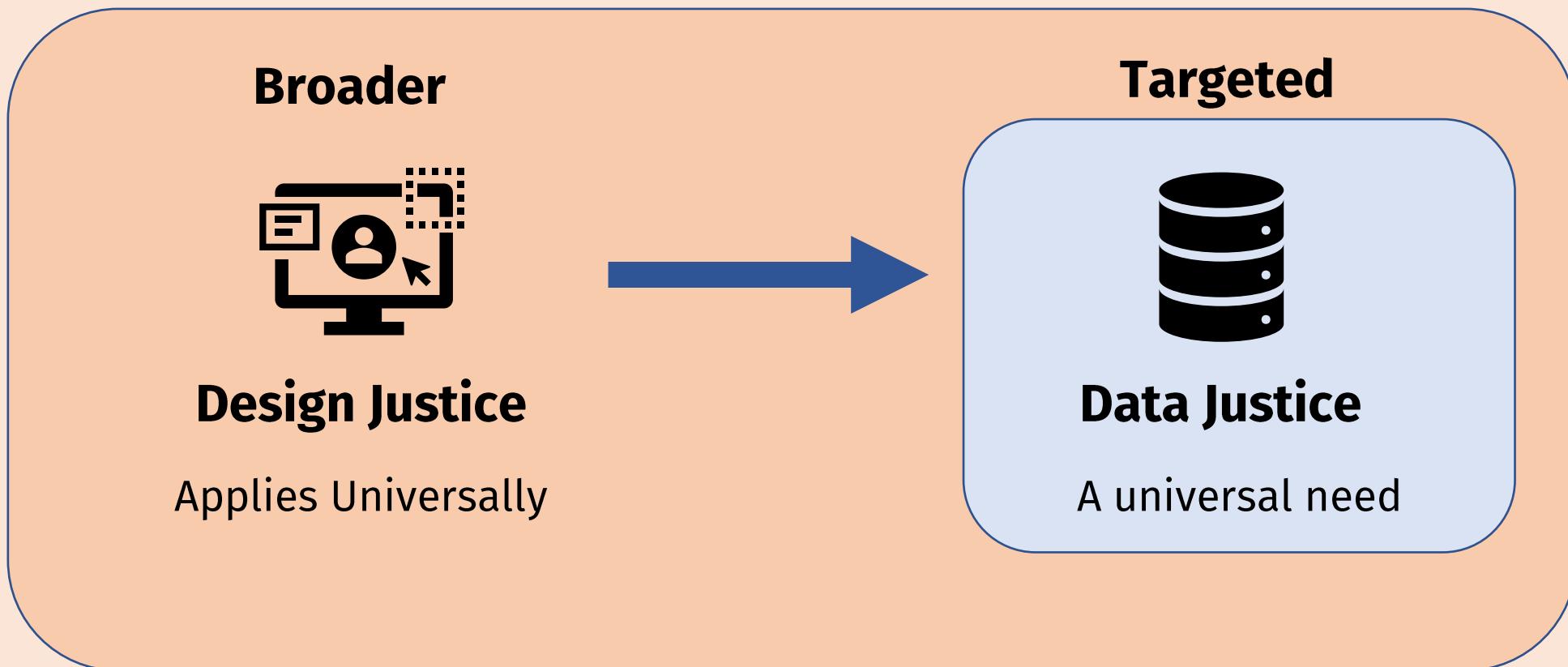
(Dis)engagement with technology

- Are participants allowed to use any technology? (Smart phone/web browser)
- How are you enabling participants to opt-out using technology but still participate?

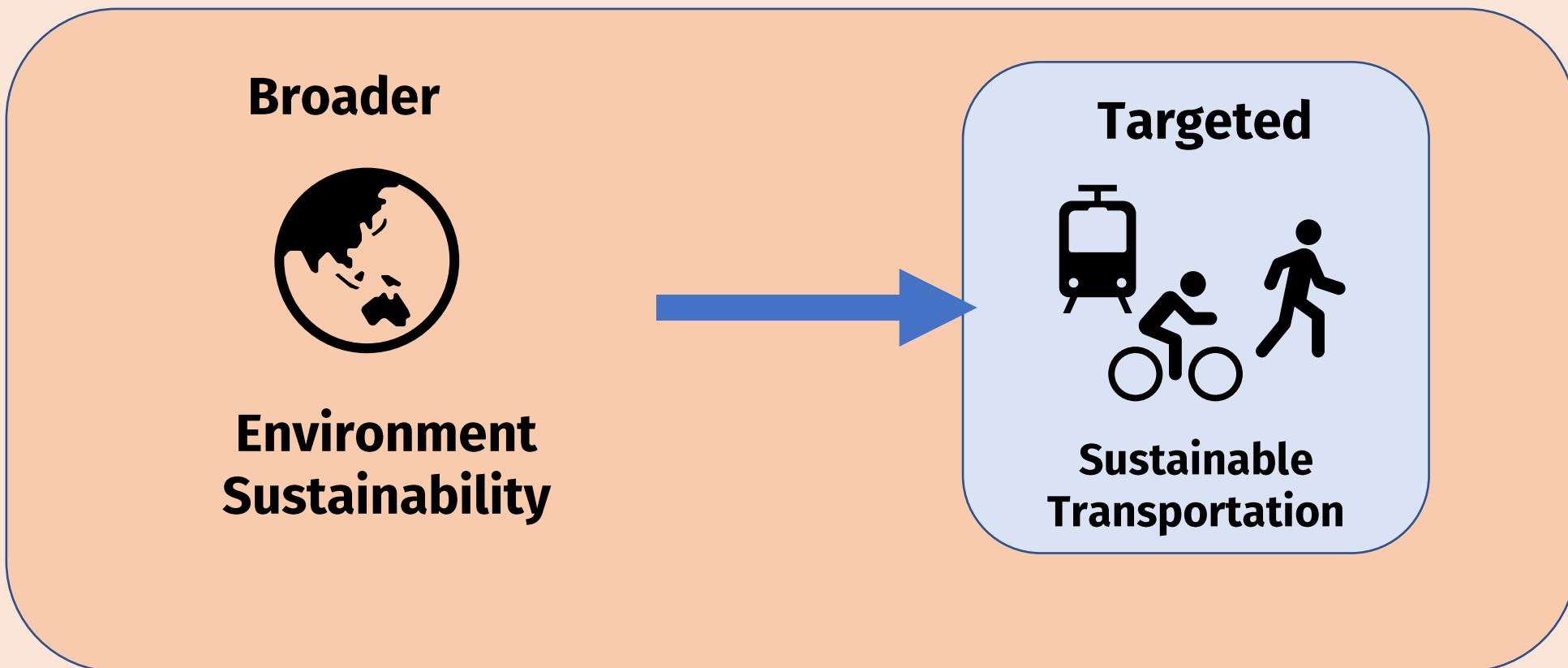
Non-discrimination

- How can survey participants voice their concerns about how their data is being displayed?
- How can participants prevent discrimination?

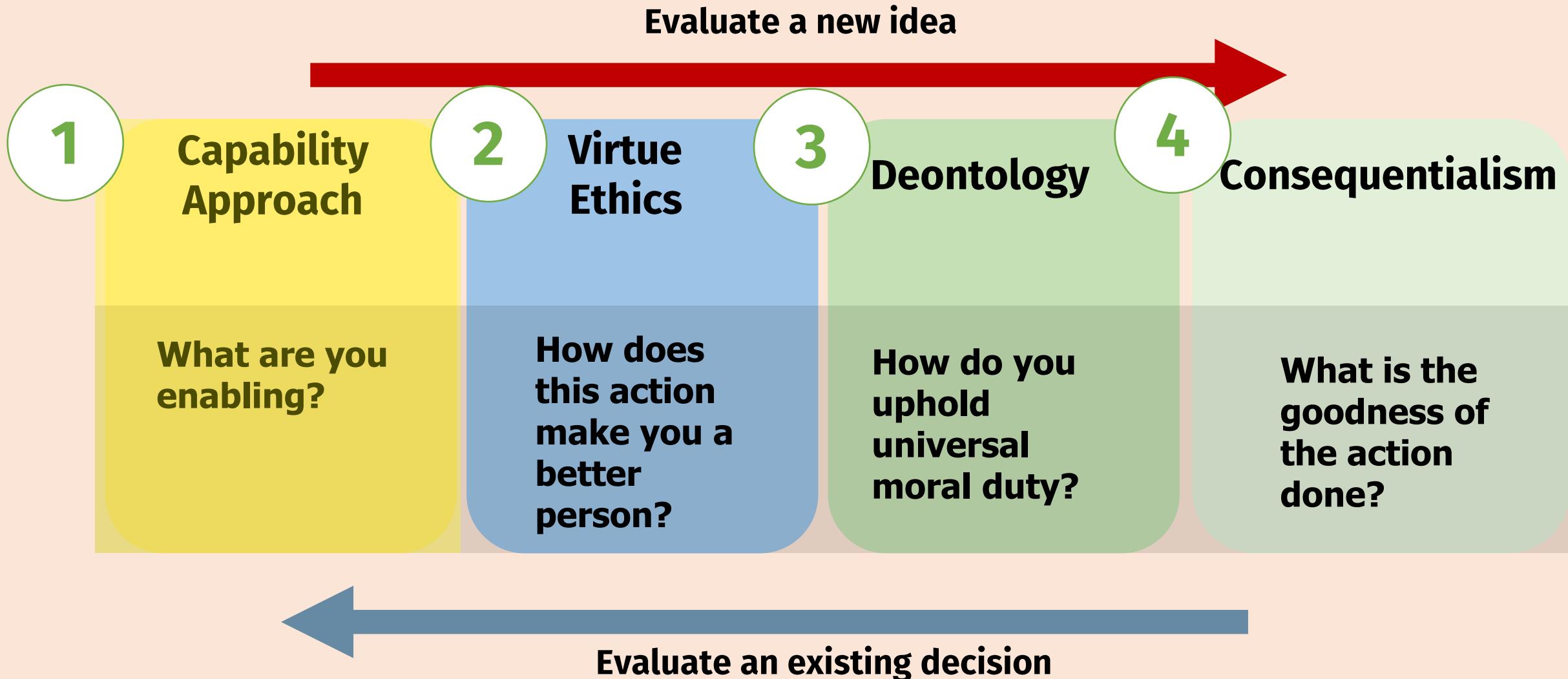
Connecting Design Justice to Data Justice



Connecting Design Justice to Data Justice



The Bridge of E (lden)thics



Bridge of E(ldin)thics



Bridge of E(ldin)thics

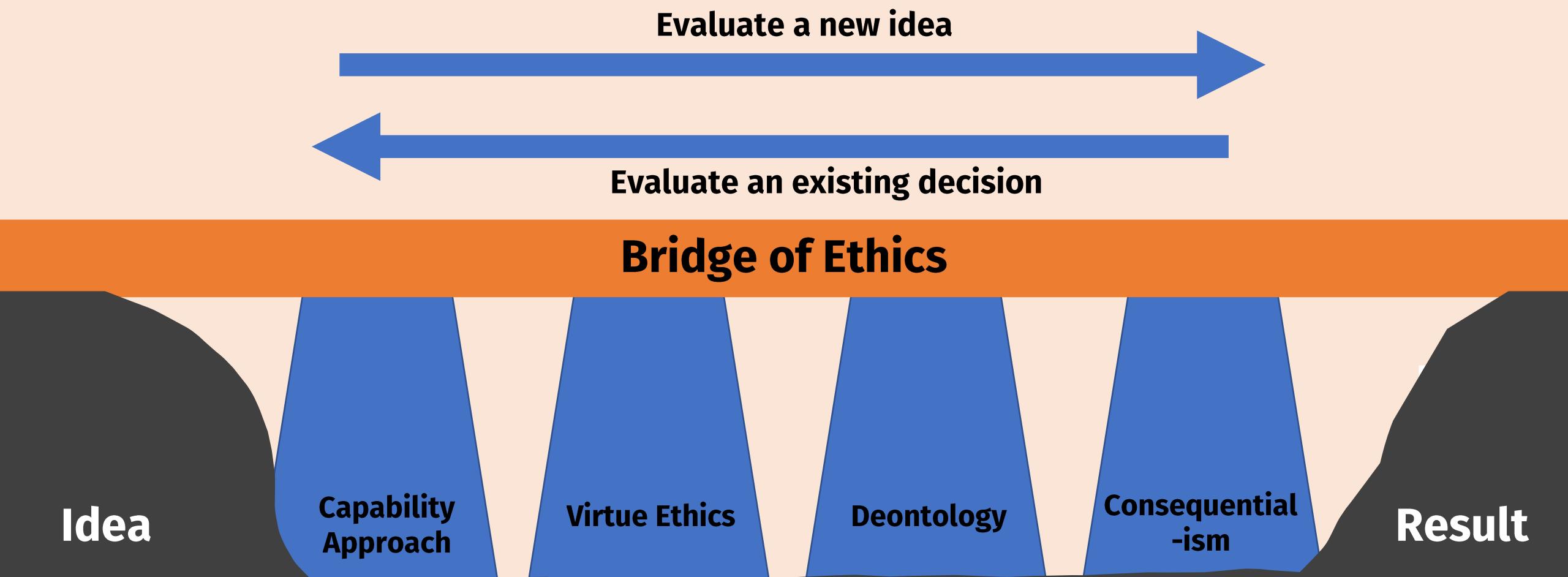
C.A.

V.E.

D

C

Bridge of Ethics for Web Design



Consequentialism

“The ends justify the means”

- What are the consequences of your decision?
- Do they improve the common good of those affected?

Deontology

“Every time you do something, do the thing every person should do in the same situation.”

- What norms and expectations are you establishing?
- Are you upholding your duties of care?

Virtue Ethics

“Are you living a good life true to yourself by doing this action?”

- What type of person do you become in the process?

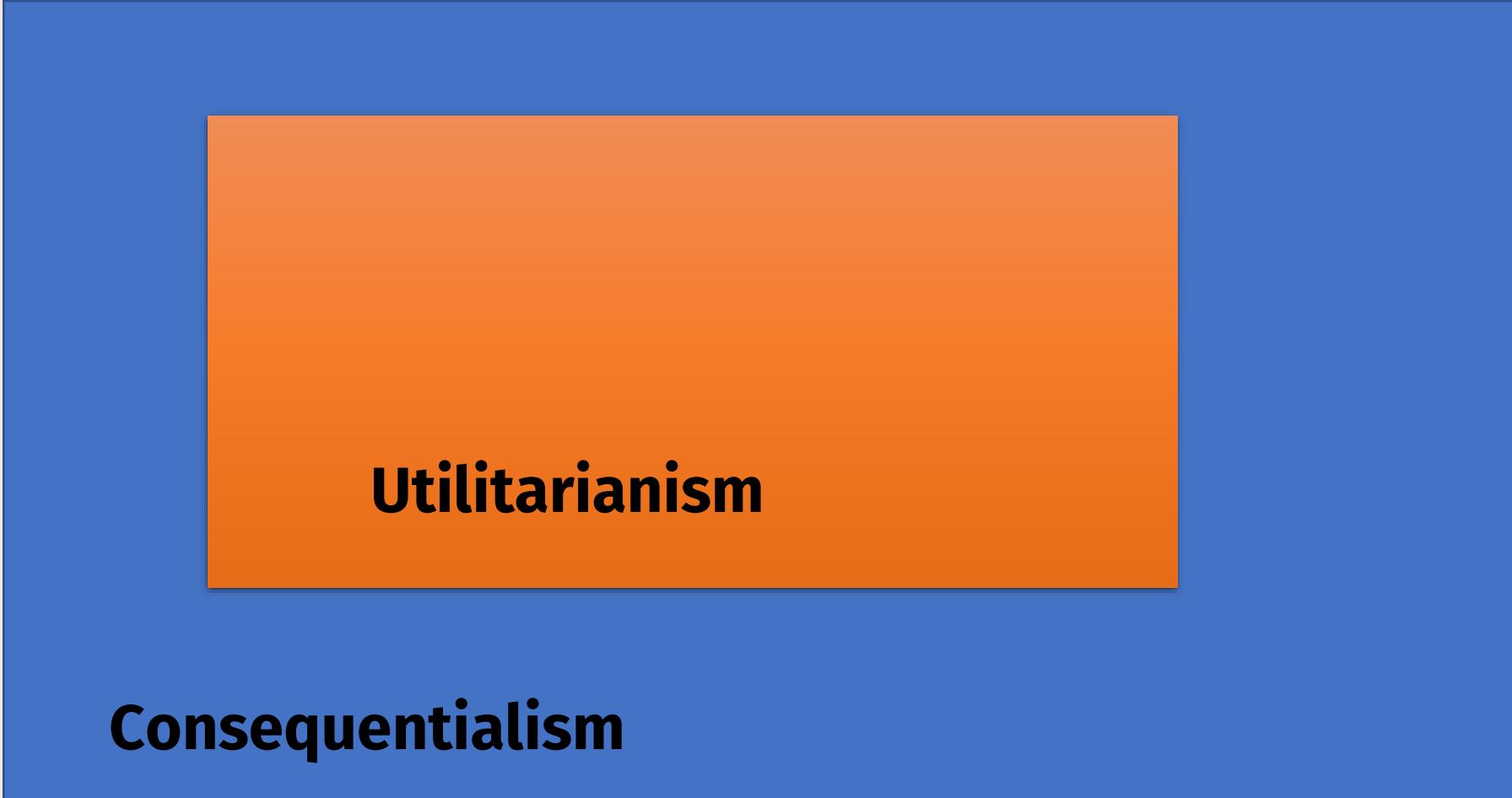
Capability Approach

“What is the actual capability for a person to achieve their own well-being?

- What world are you building for the end-user?
- What capabilities are you granting or enabling?

Utilitarianism

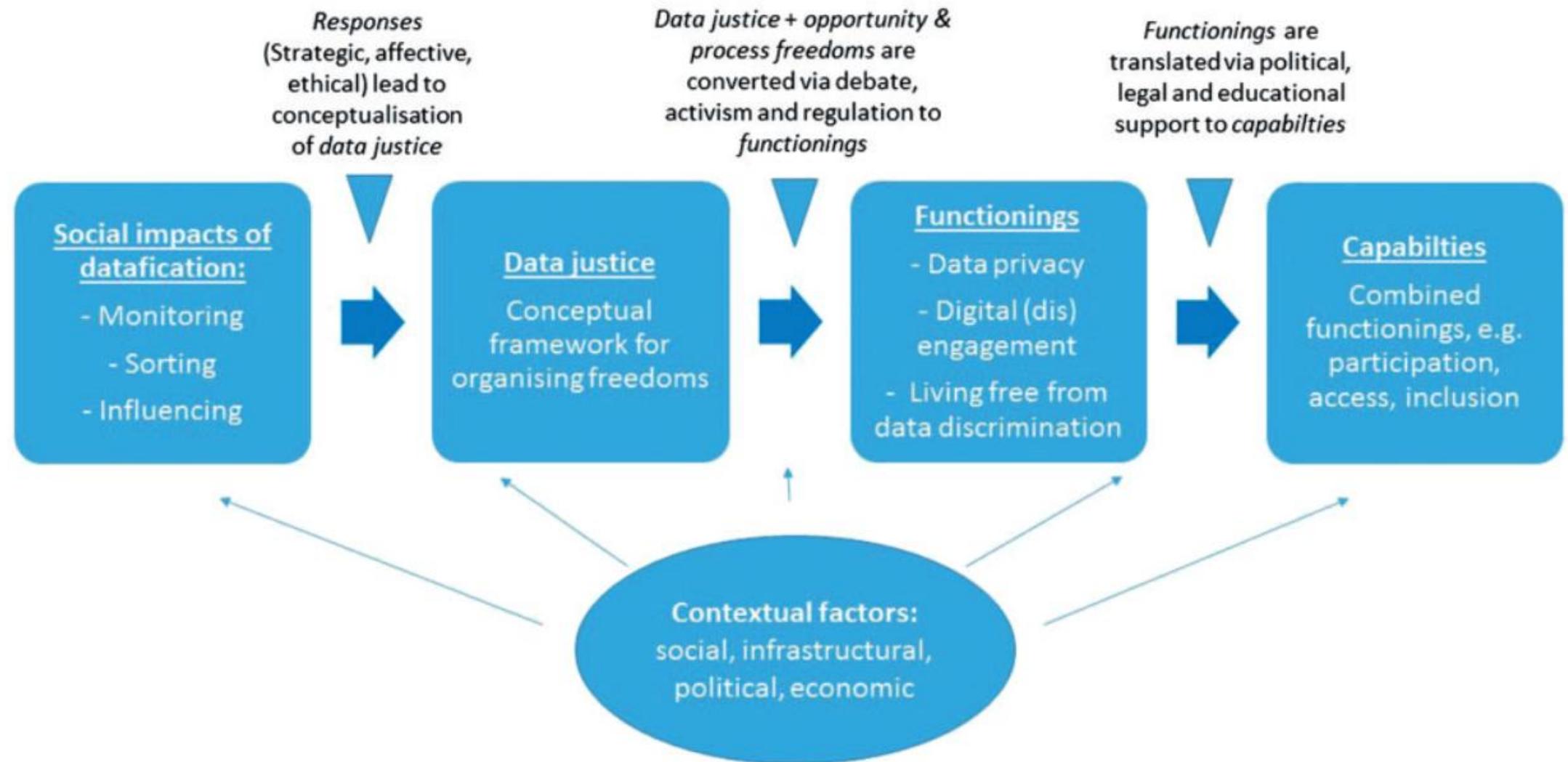
“Do the benefits outweigh the costs?”



Utilitarianism

Consequentialism

The capabilities approach and the role of data justice



What is data justice? The case for connecting digital rights and freedoms globally

**Design Justice and Data Justice are
interconnected**

Key Takeaway:

Design Justice



How does your application fit into the larger context of empowering civil society?

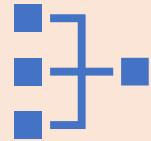
Data Justice



Do the parts of your application protect the inherent rights of people?

Both are ethical frameworks for systemizing and defending your decisions

Remember, ethics is about



Systemizing



Defending



Recommending



**Right
Behaviors**



**Wrong
Behaviors**

—

Vs.

Ok, seriously, why is this important to mapping?

Maps = Interconnected power relations

Data Justice is **just a subset!**

Global US Los Angeles

Data Source:
COVID-19 Data Repository by Johns
Hopkins CSSE

Last updated: 5/8/21

157,284,719

confirmed on 5/8/21

Play

Show data with symbols that are:

Proportional Logarithmic

Confirmed ↗ Deaths ↗



Map Type ▾



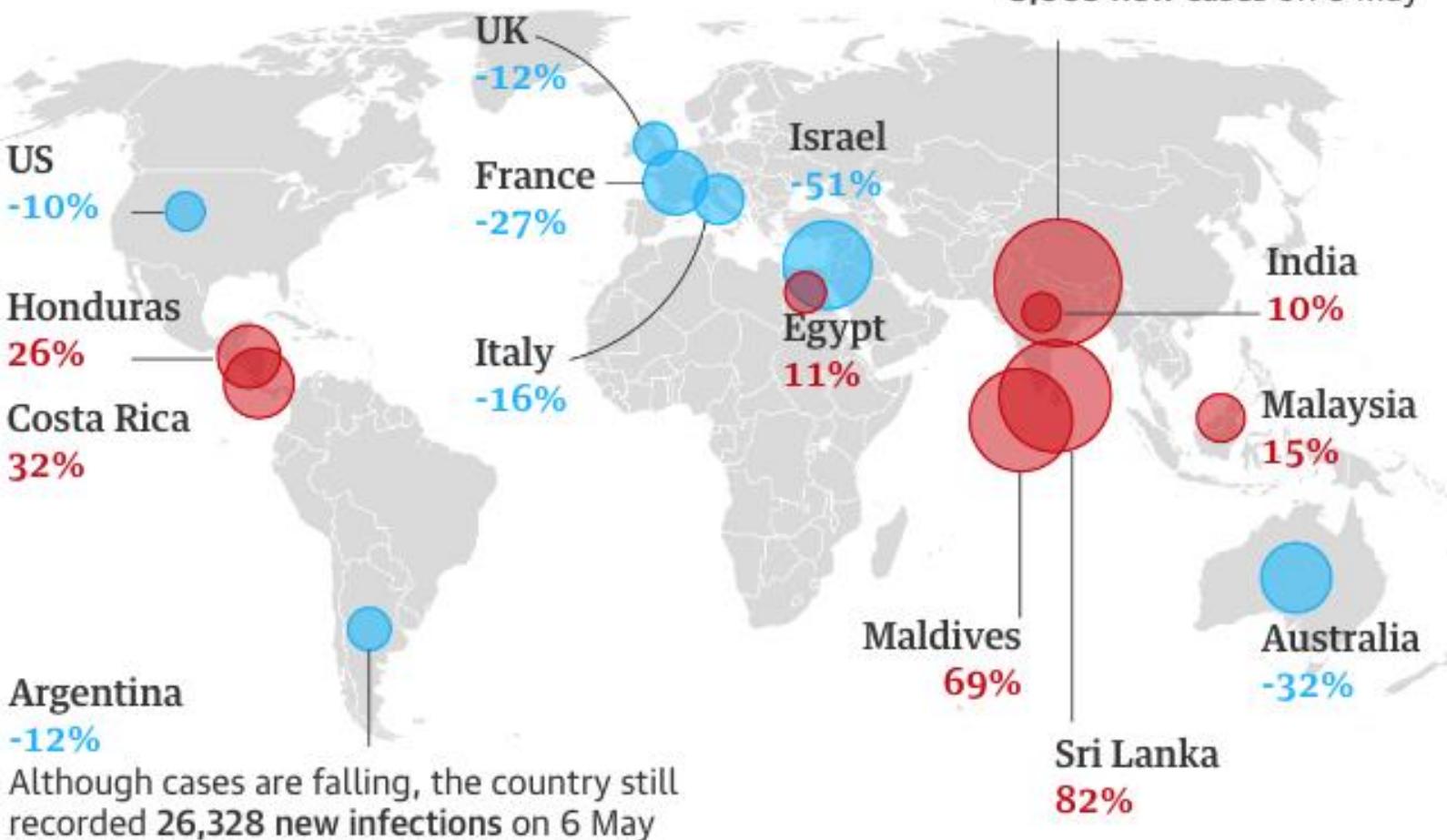
	Cases	Deaths
US	32,686,256	581516
India	21,892,676	238270
Brazil	15,145,879	421316
France	5,718,165	105530
Turkey	5,016,141	42746
Russia	4,816,331	111097
United	4,433,090	127603

Useful Map data © OpenStreetMap contributors CC BY SA Imagery © Mapbox

<https://sandbox.idre.ucla.edu/covid19/>

Rising and falling Covid-19 cases

The past week has highlighted disparities between richer and poorer nations when tackling the pandemic



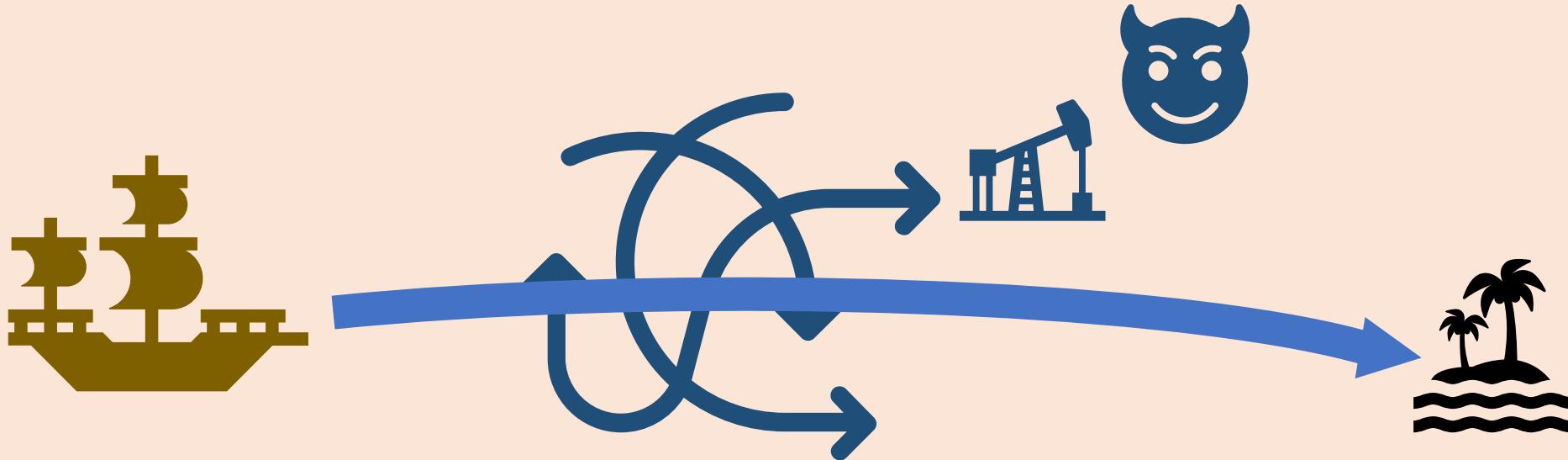
Guardian graphic. Source: WHO Covid-19 dashboard

Data is not “objective”.
Our applications are not “objective”.
What is “objective” then?

**Our experiences and the experiences of the
communities we facilitate and empower.**

We **must** focus our applications with ethical frameworks to avoid misconceptions.

Why?



Decide where you want to be going with your mapplication.

Or external forces will decide that for you.

**And you will just be upholding the status quo... and
not transforming civil society.**

Be intentional and thoughtful

Key: Be intentional and thoughtful

**If your designs and data intentions are not clear,
it will be easy for others to turn your intentions
against you and the community.**

Most critical point

Be intentional in what you design and what you choose to share.

Design is relatively easy

Justice is hard

But.....

**The arc of the moral universe is long,
but it bends towards justice.**

-Martin Luther King Jr.

So, let's fight on the side of the moral arc.



And now for something completely different

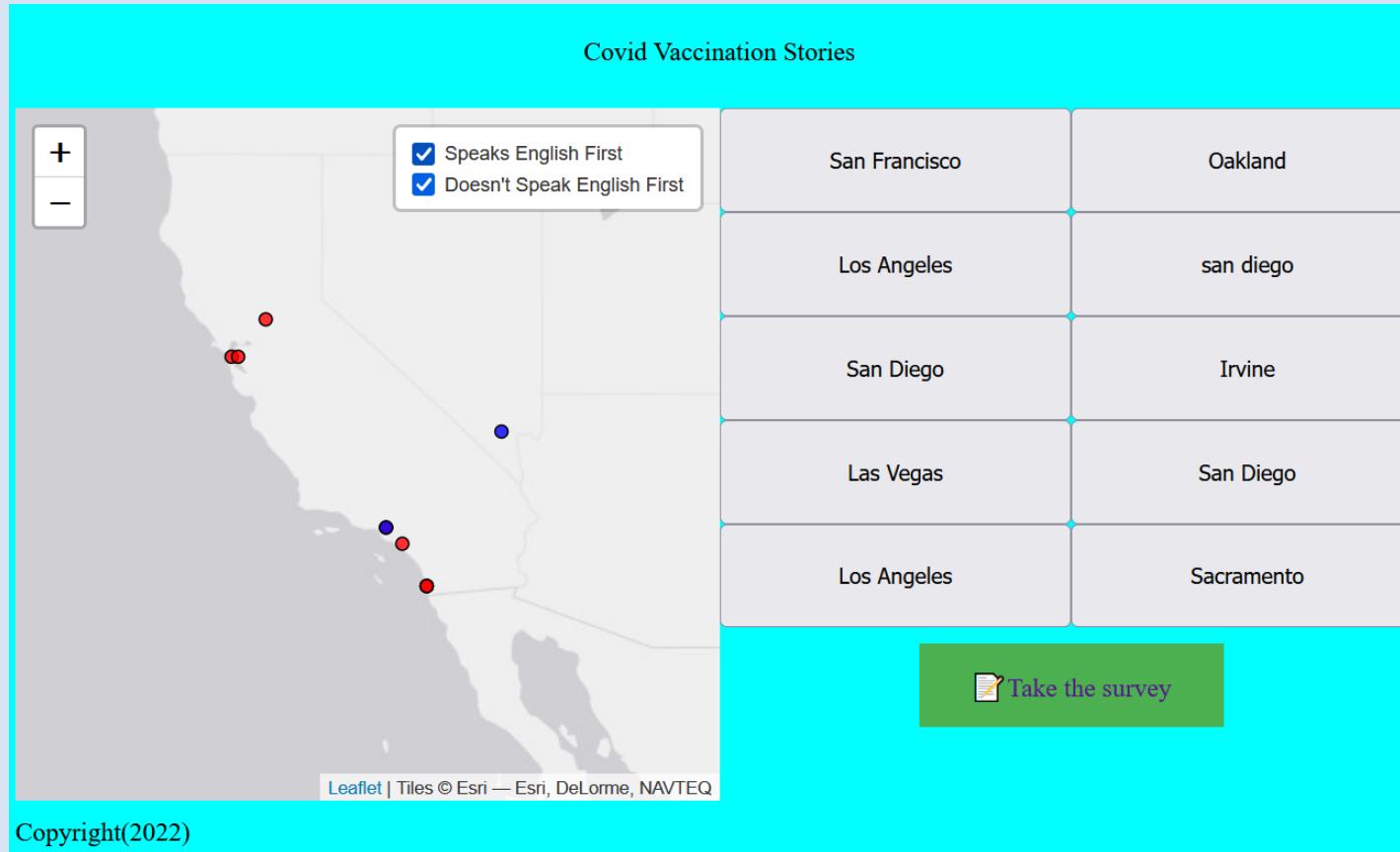
ConditionALs, Map Layers, and Visual Design

Putting the “us” into Design Justice



Logistics
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ConditionALS, Map Layers, and Visual Design



<https://albertkun.github.io/23S-ASIAAM-191A/labs/week7/>

Assignments

Due Tuesday 5/23:

1. Data Justice Reading
2. Thinking Cap #6
3. Group Assignment #4*

Due Thursday 5/25:

1. Lab Assignment #6

***Potentially delayed**