



Connecting the dots of technology and ethics

Society, Technology, and Ethics

Visiting Voice
Lecture
Group Time

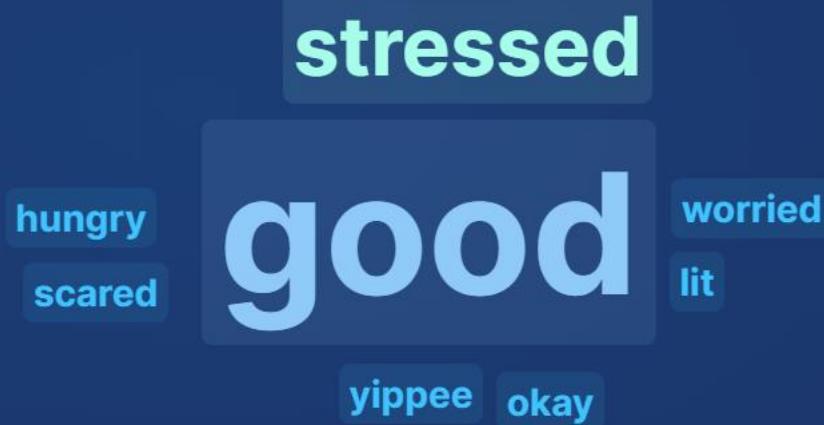
Join at
slido.com
#ucla

Albert Kochaphum
Lecture 3 | July 8th, 2024



Join at
slido.com
#ucla

Week 3! Three end is near! How are you feeling?





Join at
slido.com
#ucla

How would you rate the "Participatory Mapping" reading?

1 - Not meaningful 5 - Extremely meaningful

Score: ★ 4.5

50%

50%





Join at
slido.com
#ucla

How was the work load last week?

Just right

Too much

 0%

Too little

 0%

100% 



Join at
slido.com
#ucla

How was pacing for last week's lab?

Just right



Too fast



Too slow





Join at
slido.com
#ucla

Would you like a full lecture on the pros and cons of open source (instead of a mini-one)?

Doesn't matter



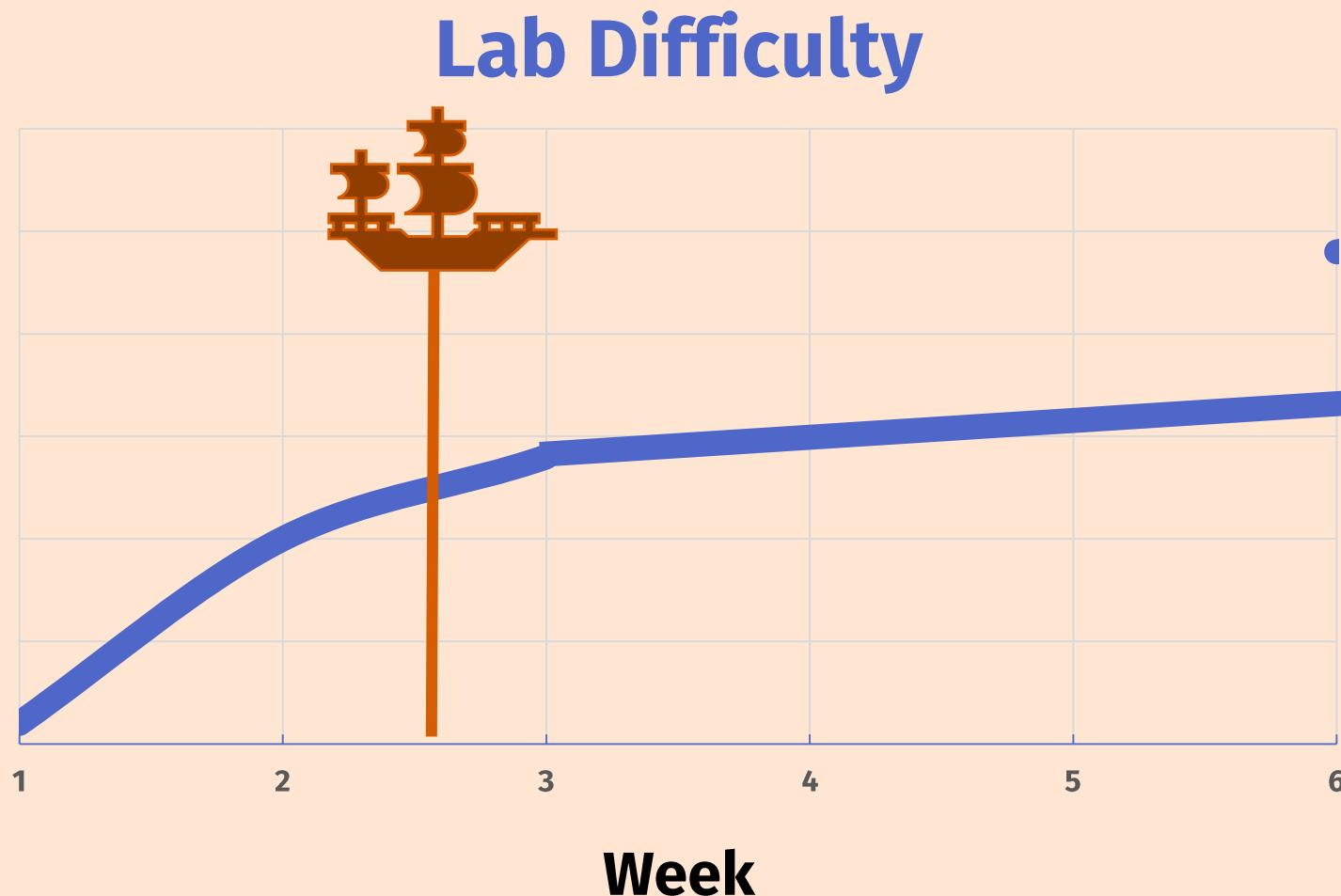
Yes



Nah



Lab difficulty will start to plateau



Theme of the week

The societal impacts of technology

Yoh Kawano

Visiting Voice



**Visiting Voice
Lecture
Group Time**

A long time ago in a (UCLA building) not too far away

**SAVE US FROM NON-COMMUNITY FOCUSED
GROUP PROJECTS.....**

YOU ARE OUR ONLY HOPE YOHDA KAWANOBI

YOH(DA) KAWANO





Visiting Voice: Yoh Kawano



[Yoh Kawano](#) is a digital humanist, former Lead Computation Scientist at UCLA's [Institute for Digital Research and Technology](#), and associate professor at [Reitaku University Japan](#) (Japanese). His community empowerment is on narratives in Japan's Fukushima prefecture following the 2011 Tsunami.

Connecting the dots of technology and ethics

Lecture



Visiting Voice
Lecture
Group Time

Lecture

Alwards

Visiting Voice

Alwards

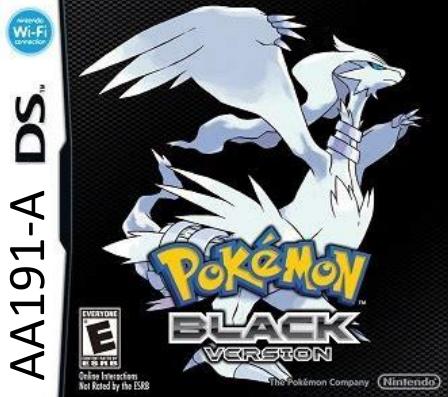
Lecture

Poké-xtra Credit-mon
Version:

Amazing Labs we must
BLACK-NOWLEDGE

and

Thinking Caps to
WHITE home about!



AA191-A DS™



AA191- DS™

Oshawott-a way to hand power back to local people!

Gia Kim

“Participatory and critical cartography can be improved through **shifting the use and handling** in making maps and such away from foreign researchers and governments and directly by the people. As exemplified by the Participatory Mapping reading, it is the arrogance and ignorance of researchers that go to local villages ... **mapping** should be done **by the local people** and **stay localized unless** it is the local people that **wish to spread that information**, and it will be **best used by the local people**.”

<https://github.com/albertkun/23S-ASIAAM-191A/discussions/5#discussioncomment-5585465>



Good Petillinking to what happened in class!

Keiya Wada

“...the **majority of the class** only **chose the world map** as a map when in reality all of them were maps... shape the fundamental base of how we navigate through our lives, as **we use applications like google maps** every single day. This is most likely also the reason why the **majority chose the world map as the only map**, because that is the form of maps that we are the most familiar with, and **many think of that kind of form to be the only maps used in the world.**”



Nice Vanillux-amples!

Jasmine Reyes

“[MappingForRights] is an organization that helps at-risk communities in the rainforest **demonstrate their presence** to governments. This can be crucial when governments decide to **tear down rainforests for industrial business**.

(<https://www.mappingforrights.org/participatory-mapping/>)... I immediately thought of how **Mariah** mentioned that **digital maps purposely hide information** from their viewers...I never realized how much **power maps** inherently had until I realized how much I depend on maps... **I go straight to Apple maps**, even when I know where I am going sometimes.”



Braviareally Nice Connections to the Reading and Visiting Voice!

Kiana Tran

"extracting information which will be used against people" (Chambers 7).... initially caught my attention because...it did relate somewhat to a concept discussed during the lecture with Mariah and **how oral maps have been historically practiced**, but the **choice to share the translation/meaning prevents** the information from being **exploited** by others... an issue with participatory mapping and critical cartography is **controlling who gets a hold of the information**/data so that the information is not used against people and puts people in danger... the **participants who provide** the information **must have control** and knowledge of where their information is going and who it will be used by to **mitigate potential exploitation**.



Legendary Zekromended Thinking Cap of the Week

Paige Wu



“Maps should, I believe, **start collaboratively within locals first**. If one wants to consider certain cultural sensitivities or reduce risk or danger to the community, it is arguably easier and **important for community members to participate** in this **map making**... this living countermap against tourist marketing personally comes to mind. Created by Crear Studio's **collaboration** with two local artists: Roger Eyes R. and Sarah Rafael García, this map of Santa Ana becomes very personal in preserving and sharing the histories integral to these communities. (**My favorite** part of this map looks at Santa Ana's former Chinatown.) Nevertheless, it is important to **check our biases and assumptions** for map making; knowledge production and **map making by locals should not be delegitimized**...



Accigoreat comments!

Kienna Chhoeu

To Kiana:

"I agree with your solution to solve the issue... language is such a important tool that is easily overlooked when it comes to research and data collection, but **having participants be able to control the knowledge** of their information is important because they deserve a full choice, and also for **language to be accessible** for the participants."

Gia Kim

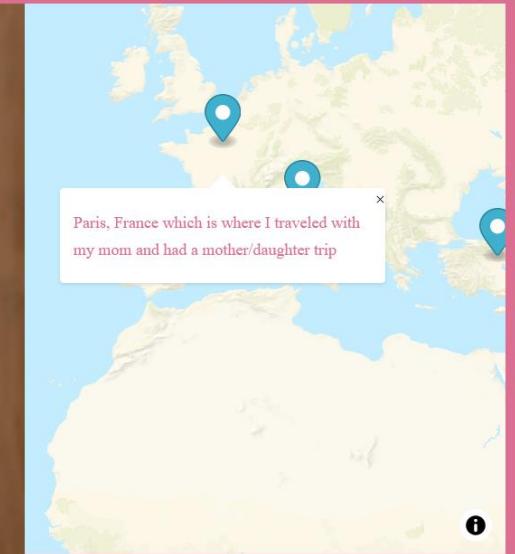
To Paige Wu:

"The **accessibility aspect** of mapping should fully be emphasized because it is **very revealing on who maps** are being made for. I would take it a step further of deconstructing even the presence of an "expert" or "educated professional" in **making maps with/for locals.**"

**You've *tepi-cked* a good spot for
your map title**

Ness Solomon

Lab #1: Map & Portfolio



<https://nesslee123.github.io/Assignments/week1/index.html>

*Excellent layout and styles, but
you cottonneed to fix the map!!!*

Paige Wu

Welcome to (my) Paige's website!

(((((((▽)))))))

Get to know me!

Hi! My name is Paige Wu, and I am excited to meet you all in this class!

- 3rd Year Cognitive Science Major
 - Computing Specialization and Digital Humanities Minor
- Favorite trait about myself: Creative!
 - Ex: painting, drawing digitally, short films, sewing (plush animals!)
- Least favorite trait: Indecisive...
 - Ex: my major (oof...), clubs/extracurriculars, what I want to eat...

Other things to yap about: cooking, playing minecraft, spending too much time on this assignment



<https://pwinnie2026.github.io/24su-asiaam-191a-labs/Week%201/index.html>



Thanks for Ducklette-ing me Scroll!

Kiana Tran

Lab #1: Map and Portfolio

Places you can find me!

UCLA Store Ackerman: my place of work

<https://kianaptran.github.io/24su-asiaam-191a-labs/week%201%20profile/>

Emolga-react sectioning of content and HTML link

Caitlynn Hauw

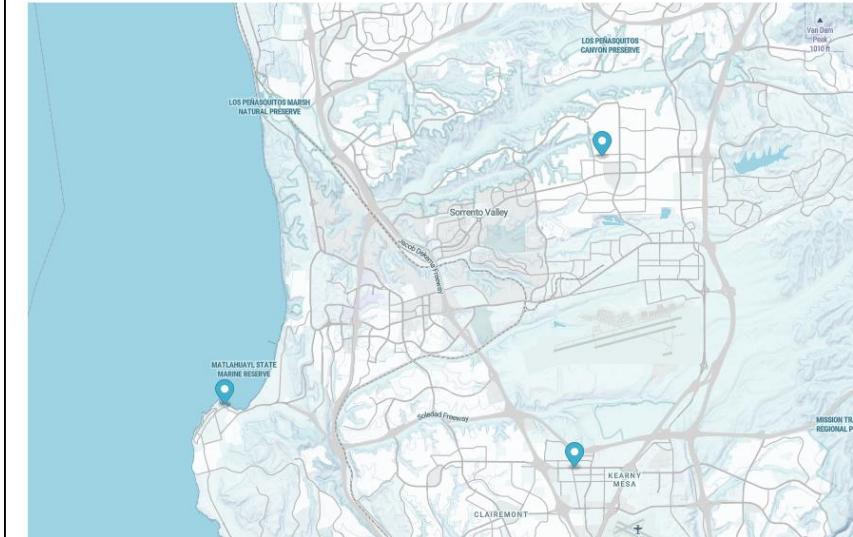
caitlynn's lit, crazy, cool portfolio

bio

hello! my name is caitlynn and i'm a second-year cognitive science major at ucla. due to my personal experiences, i'm passionate about mental health advocacy and youth representation in public health. although i intend to pursue a career in clinical psychology, i also really love web development!



restaurants I have eaten ramen at in san diego



<https://caitlynn-hauw.github.io/aa191-assignments/week1/index.html>

Great job changing the Lillipup-up content and map angle

Sadhana Jeyakumar



<https://sjeyakum.github.io/24su-aas191a-labs/week1/index.html>

I Victini-ed to recommend your layout!

Nellie Nguyen



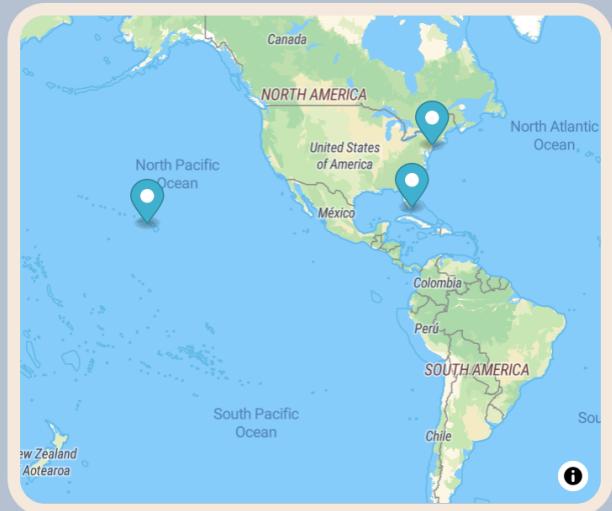
Nellie's Website! :D

About me!

Hello everyone! My name is Nellie Nguyen, and I'm a rising sophomore with a major in Neuroscience. As a critical digital map maker, I aim to amplify and empower communities and voices that are not always represented in typical maps. I hope to identify gaps in other existing maps in order to fill them and create my own maps to offer new perspectives.

My future goals!

I'm hoping to apply to MD/PhD programs after undergrad in order to work as a neurologist in a clinical setting while conducting research in developing methods to detect and treat neurological disorders. In the healthcare field, I want to have a focus on serving patients of underrepresented communities, specifically those who struggle with language barriers when receiving medical treatment. I hope to mitigate the issues they face when prioritizing their health through not only improving my own Vietnamese fluency but also learning



<https://nellienguyen149.github.io/24su-asianam-191a-labs/week1/>

Legendary Reshiramazing map and design

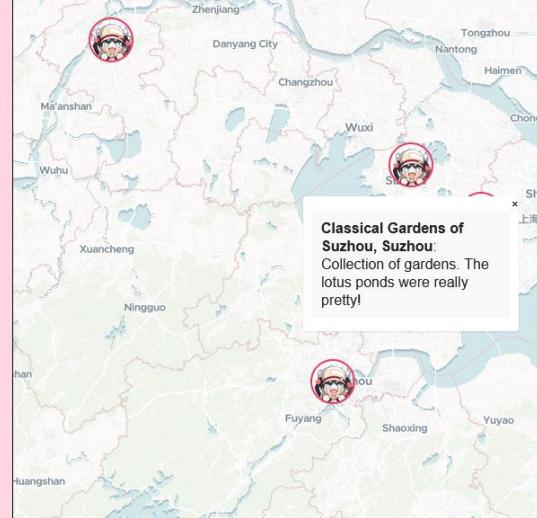
Michelle Zhao

ABOUT ME! ^_< ☆



Hi! My name is Michelle, and I'm currently a junior at UCLA majoring in Computer Science as well as double minoring in Digital Humanities and Philosophy. One of my goals is to become capable of creating

WHERE I WENT!



Classical Gardens of Suzhou, Suzhou:
Collection of gardens. The lotus ponds were really pretty!



<https://zhamic7.github.io/aa191a-labs/week1/index.html>

AI's Nincinno-mber one portfolio of the week

Justine Lim



LAB #1: MAP & PORTFOLIO

my favorite places to study on campus:

Hi! I'm Justine, a rising 3rd-year majoring in Computational and Systems Biology with a minor in Digital Humanities.

As I learn to become a critical digital map maker, my goal is to create maps that are not only accurate and insightful but also

Meeting Rooms at CNSI Level 5!
Can be very private and has a pretty view of South Campus.

<https://stinstest.github.io/24su-191a-labs/week1/index.html>

Connecting the dots of technology and ethics

Society, Technology, and Ethics

Logistics

Alwards
Lecture

Theme of the week

The societal impacts of technology

**What is the relationship between
society and technology?**

Inside a European push to outlaw creepy ads

Natasha Lomas @riptari 9:30 AM PDT • October 21, 2021



Comment

<https://techcrunch.com/2021/10/21/inside-a-european-push-to-outlaw-creepy-ads/>

Featured Article



How Europe has expanded its bid to disrupt Big Tech

Digital Market Act gets new interoperability requirements, more choice screens, wider FRAND and limits on data for ad tracking...



Natasha Lomas @riptari / 12:02 PM PDT • March 25, 2022

Comment

<https://techcrunch.com/2022/03/25/how-europe-has-expanded-its-bid-to-disrupt-big-tech/>

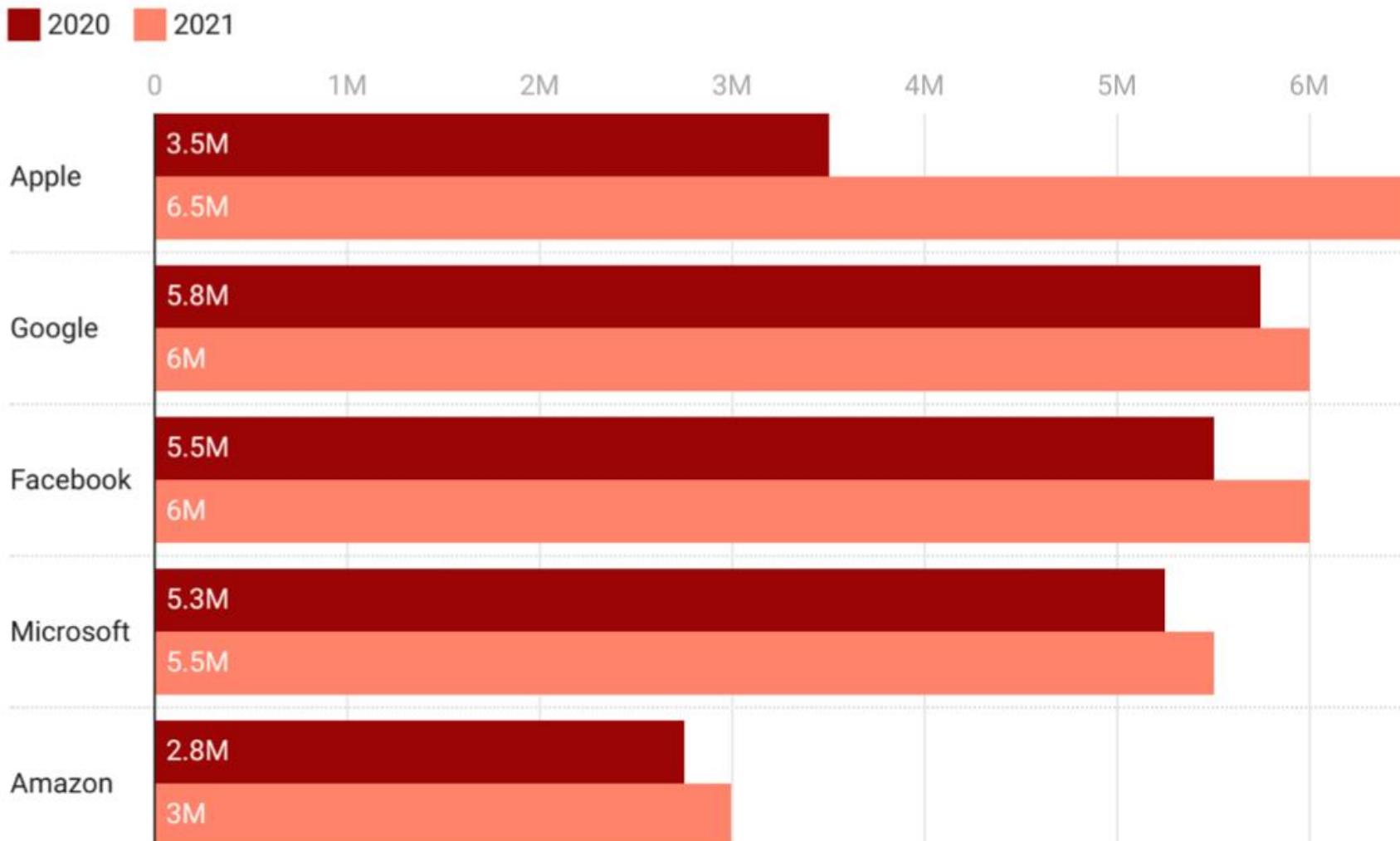
Report reveals Big Tech's last minute lobbying to weaken EU rules

Natasha Lomas @riptari / 3:01 PM PDT • April 22, 2022

 Comment

Big Tech boosts EU lobbying

New EU Transparency Register update show that Big Tech firms boosted their EU lobbying in 2021. Their combined lobby spending exceeded 27 million euros.



04.21.2022

UNITED STATES

WAR AND IMPERIALISM / RICH PEOPLE



Lockheed Martin and Friends Don't Want You to Know What They're Up To

BY

DANAKA KATOVICH

The boards of defense companies like Lockheed Martin and Boeing are encouraging their shareholders to vote against transparency measures. Maybe the US government shouldn't fund companies whose profits would be harmed by the collection of human rights data?



A US soldier fires an FGM-148 Javelin missile during a combined arms live fire exercise in Jordan on August 27, 2019. (Sgt. Liane Hatch / US Army via Wikimedia Commons)

<https://www.jacobinmag.com/2022/04/defense-contractors-human-rights-transparency-lockheed-raytheon>

Are we barking up the wrong tree?

N.Y.P.D. Robot Dog's Run Is Cut Short After Fierce Backlash

The Police Department will return the device earlier than planned after critics seized on it as a dystopian example of overly aggressive policing.

 Give this article  



The Police Department used a robotic dog like this one from Boston Dynamics. The machine, which the police named Digidog, became a source of heated debate. Josh Reynolds/Associated Press

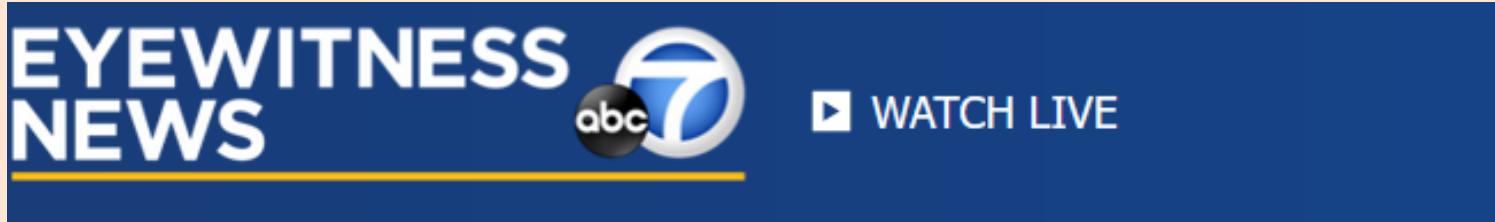


By [Mihir Zaveri](#)

Published April 28, 2021 Updated May 11, 2021

Is there anything negative when institutions use technology to reinforce society?

NYPD doesn't think so.



NYPD unveils robot police dogs and other high-tech crime-fighting devices in Times Square

Tuesday, April 11, 2023

This comes 2 years later after the initial outcry.

<https://abc7.com/nypd-police-dog-robot-new-york-city/13114623/>

A sign of the Dystopian times?

New York City Brings Back Dystopian Robot Police Dogs

'Digidog is out of the pound," New York City Mayor Eric Adams declared, not ominously.

C.J. CIARAMELLA | 4.12.2023 3:12 PM



<https://reason.com/2023/04/12/new-york-city-brings-back-dystopian-robot-police-dogs/>

Doggone it, even here in Los Angeles!



DAILY BREEZE



NEWS • News

LA City Council delays vote on accepting 'robot dog' donation

Councilwoman Traci Park said she would never support something that "violates our constitutional rights" or puts the city on a path to a "dystopian" or "Orwellian" future."

By **CITY NEWS SERVICE** | news@socalnews.com |

PUBLISHED: March 7, 2023 at 3:27 p.m. | UPDATED: March 8, 2023 at 12:56 p.m.

<https://www.dailybreeze.com/2023/03/07/la-city-council-delays-vote-on-accepting-robot-dog-donation/>

Civil Society pushes back.. For now.

≡ **Los Angeles Times** [LOG IN](#) [SEARCH](#)

City Council delays vote on LAPD robot dog for 2 months



<https://www.latimes.com/california/story/2023-03-07/la-city-council-tables-police-robot-dog-vote-2-months>

What about altering research to suit an agenda?

FLORIDA

Florida surgeon general altered key findings in study on Covid-19 vaccine safety

Joseph Ladapo defended the move, saying revisions are a normal part of assessing such analysis.



Joseph Ladapo, a well-known Covid-19 vaccine skeptic, faced a backlash from the medical community after he made the assertions. | Joe Raedle/Getty Images

By AREK SARKISSIAN
04/24/2023 01:59 PM EDT



<https://www.politico.com/news/2023/04/24/florida-surgeon-general-covid-vaccine-00093510>

What about limiting searches to suit an agenda?



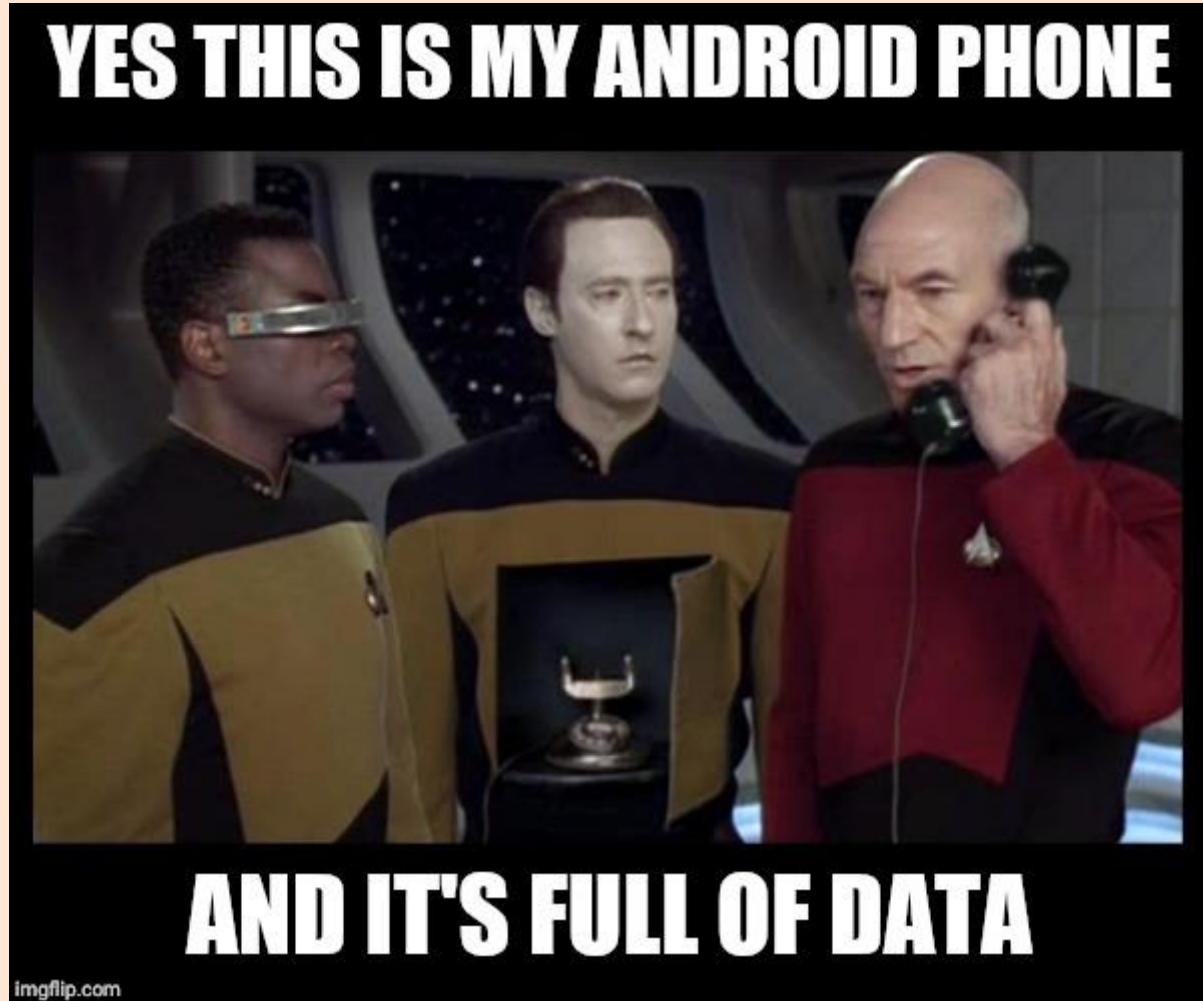


What are your thoughts about this?

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

Community + Technology + Ethics = Necessary

Can AI and Data really save the day?



Context: Data (middle) is an android.

Can AI and Data really save the day?

ThePrint

Home > Features > AI future is good for environment. It will change power consumption, speed...

Features

AI future is good for environment. It will change power consumption, speed up innovation

Human behaviour and technology are focal points of interest for most industries around the world. The fifth industrial revolution is all about that.

NIDHIMA TANEJA 24 April, 2023 11:20 am IST

<https://theprint.in/features/ai-future-is-good-for-environment-it-will-change-power-consumption-speed-up-innovation/1536008/>

Can AI and Data really save the day?

VentureBeat



Guest

Why data-driven technology is the key to ESG (environmental, social and governance)

Graham Rihn, RoadRunner Recycling

April 16, 2023 9:10 AM

<https://theprint.in/features/ai-future-is-good-for-environment-it-will-change-power-consumption-speed-up-innovation/1536008/>

Can AI and Data really save the day?

MENAFN

Tuesday, 25 April 2023

HOME NEWS ▾ MARKET DATA ▾ RESEARCH ▾ COUNTRIES ▾ SECTIONS ▾



Iot And AI: Sustainable Solutions For A Changing World

Date 4/13/2023 4:29:50 AM

Share on Facebook Tweet on Twitter 

<https://menafn.com/1106000730/Iot-And-AI-Sustainable-Solutions-For-A-Changing-World>

Who is tech actually saving/serving?

02.17.2021

GERMANY

CAPITAL / SCIENCE AND TECHNOLOGY

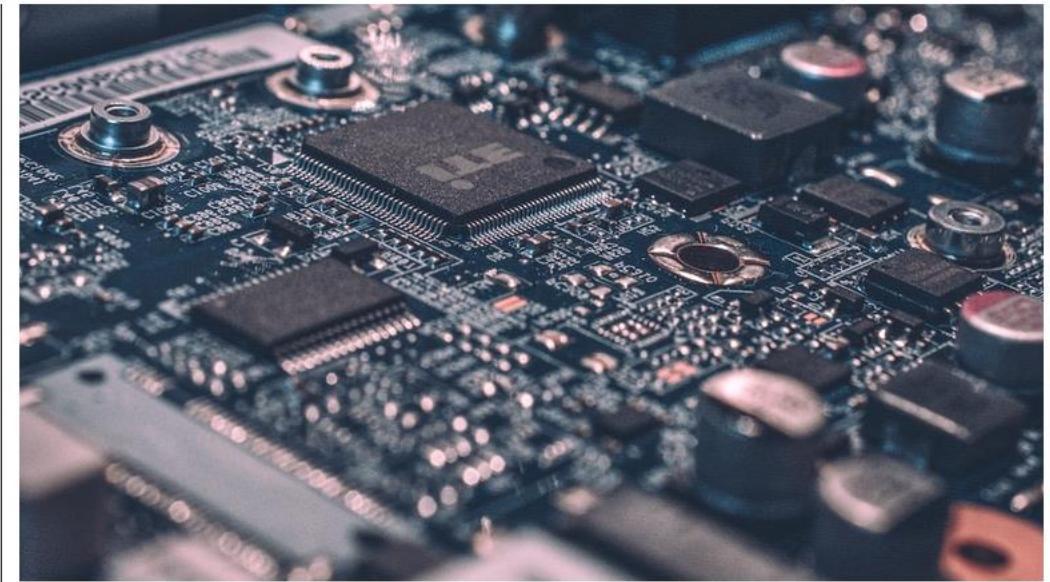


Under Capitalism, “Labor-Saving” Technology Only Adds to Our Workload

BY

PETER SCHADT / HANS ZOBEL

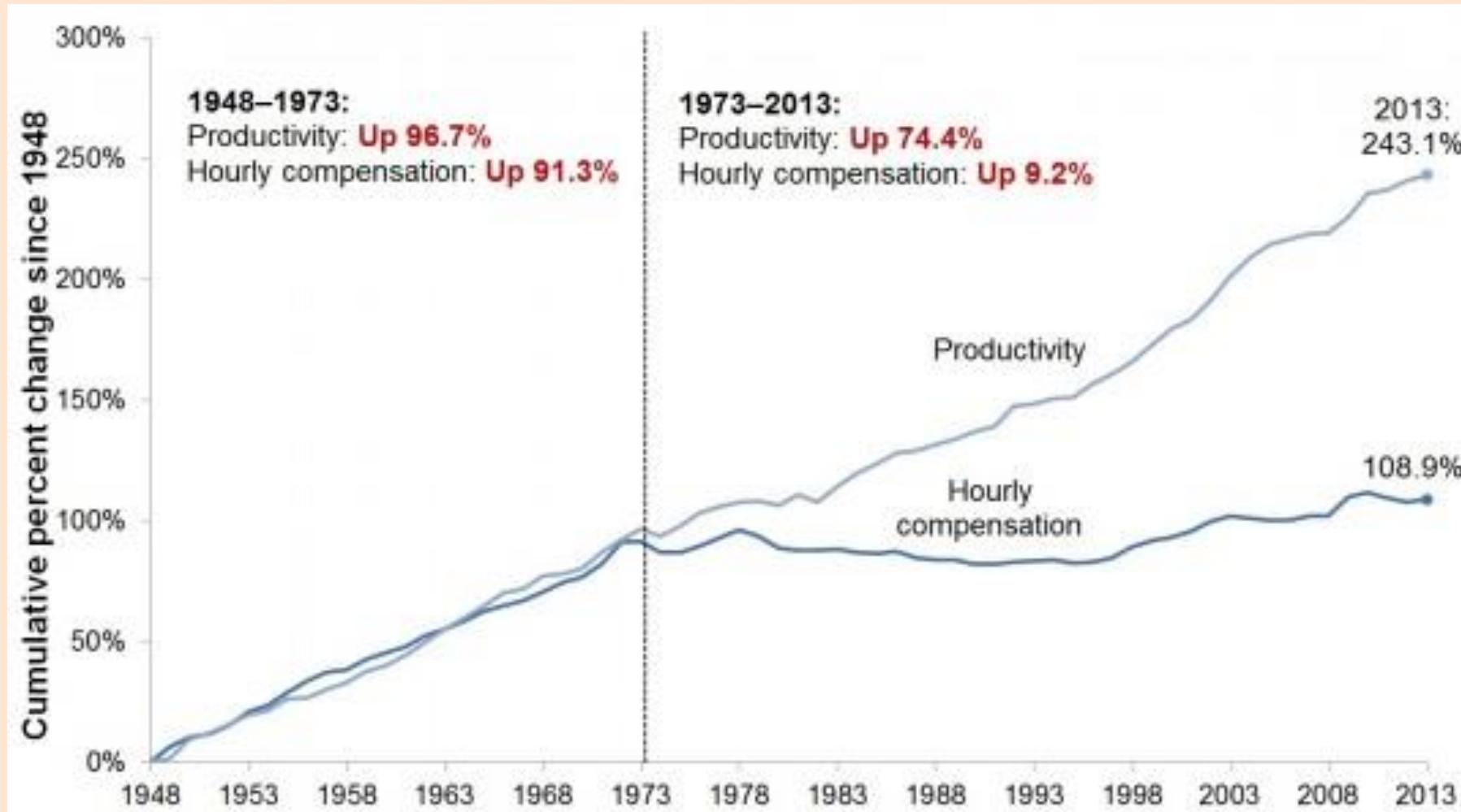
Upon its launch ten years ago, Germany's Industry 4.0 program promised a fourth industrial revolution changing the way we work. Yet for all the talk of novelty, it followed age-old capitalist imperatives: using labor-saving technology not to lessen our workload but subject us to even tighter workplace discipline.



In many parts of the world, working conditions are deteriorating and digitalization is being blamed for this. (Unsplash)

<https://www.jacobinmag.com/2022/04/defense-contractors-human-rights-transparency-lockheed-raytheon>

Who is tech actually saving/serving?



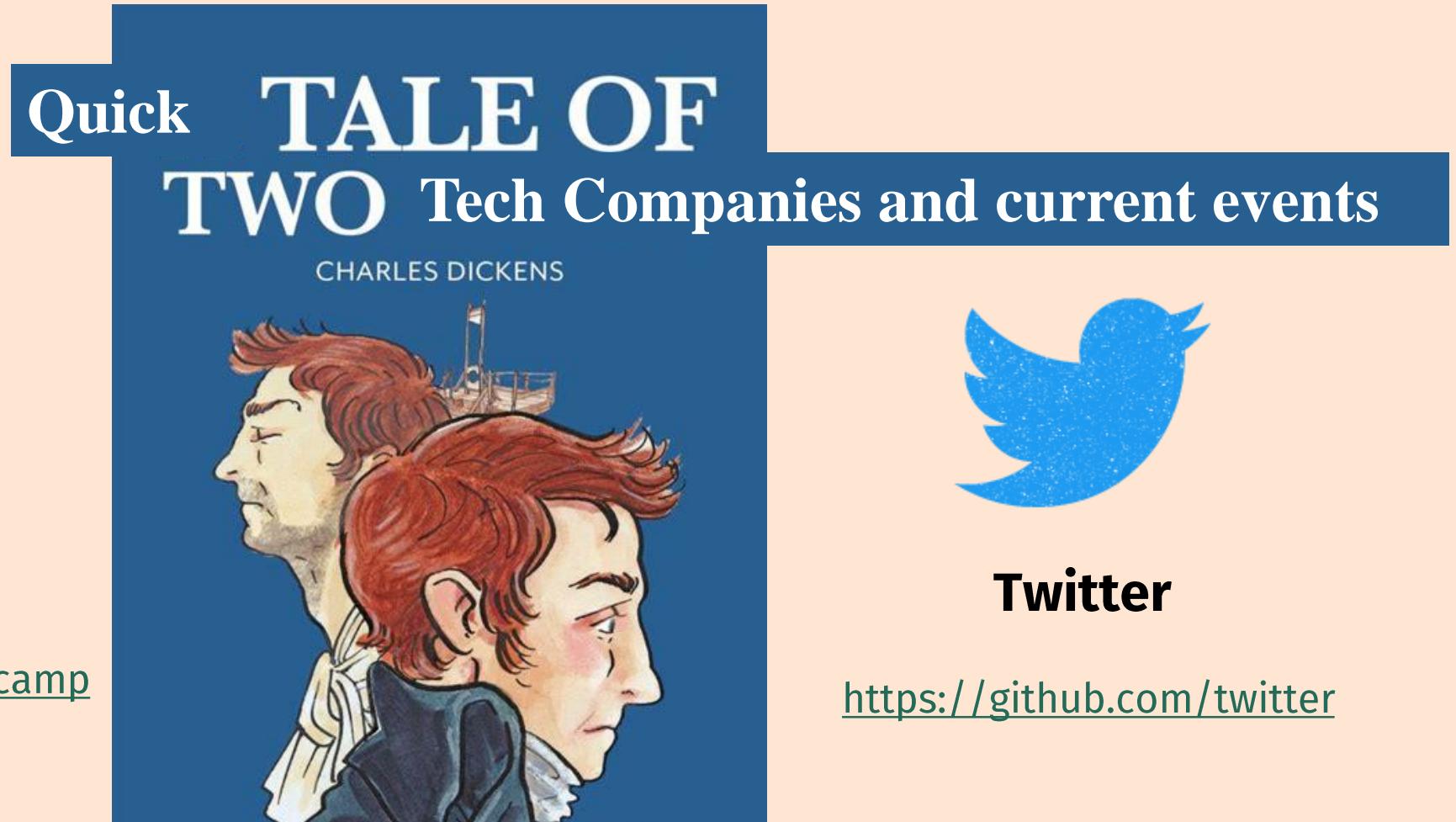
<https://aflcio.org/2015/1/15/five-causes-wage-stagnation-united-states>

Disturbing?



Basecamp

<https://github.com/basecamp>



Twitter

<https://github.com/twitter>

Examples to look at how technology and society are connected...



JASON FRIED

April 26, 2021

Changes at Basecamp

At Basecamp, we treat our company as a product. It's not a rigid thing that exists, it's a flexible, malleable idea that evolves. We aren't stuck with what we have, we can create what we want. Just as we improve products through iteration, we iterate on our company too.

Recently, we've made some internal company changes, which, taken in total, collectively feel like a full version change. It deserves an announcement.

<https://world.hey.com/jason/changes-at-basecamp-7f32afc5>

1. No more societal and political discussions on our company Basecamp account. Today's social and political waters are especially choppy. Sensitivities are at 11, and every discussion remotely related to politics, advocacy, or society at large quickly spins away from pleasant. You shouldn't have to wonder if staying out of it means you're complicit, or wading into it means you're a target. These are difficult enough waters to navigate in life, but significantly more so at work. It's become too much. **It's a major distraction.** It saps our energy, and redirects our dialog towards dark places. It's not healthy, it hasn't served us well. And we're done with it on our company Basecamp account where the work happens. People can take the conversations with willing co-workers to Signal, Whatsapp, or even a personal Basecamp account, but it can't happen where the work happens anymore. *Update: David has shared some more details and more of the internal announcement on his HEY World blog.*

6. No forgetting what we do here. We make project management, team communication, and email software. **We are not a social impact company.** Our impact is contained to what we do and how we do it. We write business books, blog a ton, speak regularly, we open source software, we give back an inordinate amount to our industry given our size. And we're damn proud of it. Our work, plus that kind of giving, should occupy our full attention. **We don't have to solve deep social problems,** chime in publicly whenever the world requests our opinion on the major issues of the day, or get behind one movement or another with time or treasure. These are all important topics, but they're not our topics at work — they're not what we collectively do here. Employees are free to take up whatever cause they want, support whatever movements they'd like, and speak out on whatever horrible injustices are being perpetrated on this group or that (and, unfortunately, there are far too many to choose from). But that's their business, not ours. We're in the business of making software, and a few tangential things that touch that edge. **We're responsible for ourselves.** That's more than enough for us.

April 26, 2021

Changes at Basecamp

At Basecamp, we treat our company as a product. It's not a rigid thing that exists, it's a flexible, malleable idea that evolves. We aren't stuck with what we have, we can create what we want. Just as we improve products through iteration, we iterate on our company too. Recently, we've made some internal company changes, which, taken i...

[Read more](#)

April 24, 2021

I bought a sauna

I bought a sauna. Which one doesn't matter. I barely know. I don't even care. Model number? I couldn't tell you. Maker? I'd pronounce it wrong. I just know it goes up to about 184 degrees Fahrenheit. I bought a sauna on a second-hand recommendation from someone I don't know, but do respect. I bought a sauna sight unseen, heat unfelt. I...



A FEW
DAYS LATER

INSIDE THE ALL-HANDS MEETING THAT LED TO A THIRD OF BASECAMP EMPLOYEES QUITTING

The company's senior leadership wanted to quell employees' concerns, and only made things much, much worse

By Casey Newton | @CaseyNewton | May 3, 2021, 8:00pm EDT

<https://www.theverge.com/2021/5/3/22418208/basecamp-all-hands-meeting-employee-resignations-buyouts-implosion>

But it was an [all-hands meeting last Friday](#), Newton reported, that apparently pushed some employees who were on the fence to actually take the severance offer. Basecamp's longtime head of strategy, Ryan Singer, questioned the existence of white supremacy at the company to the dismay of other employees. Singer, who had been with the company 18 years, eventually resigned.

Even **Forbes** disagrees with basecamp.

Forbes

FORBES > BUSINESS

Company Culture And Free Speech: Should Certain Subjects Be Verboten?



Shane Spraggs Forbes Books Author

Forbes Books

AUTHOR POST | Paid Program

Mar 30, 2023, 10:11am EDT

<https://www.forbes.com/sites/forbesbooksauthors/2023/03/30/company-culture-and-free-speech-should-certain-subjects-be-verboten/?sh=3467292e2f51>

Case 2: Ellon's Husk of Twitter



POLITICO

SIGN UP TO NEWSLETTERS

SIGN IN

Musk tells Twitter staff: Work 'hardcore' or leave

Staff told they will have to work 'long hours at high intensity.'

BY LAURA KAYALI

NOVEMBER 16, 2022 | 1:25 PM CET | ⏲ 2 MINUTES READ

<https://www.politico.eu/article/musk-tells-twitter-staff-to-work-harder-or-leave/>

Disconnecting tech from society...

INSIDER INSIDER

Elon Musk says laying off 80% of Twitter's staff was 'painful' and 'one of the hardest things' he's had to do as the platform's boss

Story by mloh@insider.com (Matthew Loh) • Apr 11

<https://www.msn.com/en-us/money/companies/elon-musk-says-laying-off-80-of-twitters-staff-was-painful-and-one-of-the-hardest-things-hes-had-to-do-as-the-platforms-boss/ar-AA19KPWv>

Disconnects morals?

The screenshot shows a news article from the website inferSe. The header features a black navigation bar with a grid icon, the word "inferSe" in white and blue, and a magnifying glass search icon. Below the header, the breadcrumb navigation shows "Home > Latest News > Elon Musk publicly mocks laid-off Twitter employee with a disability. Then apologizes....". The main title of the article is "Elon Musk publicly mocks laid-off Twitter employee with a disability. Then apologizes." followed by "- ABC News". The author is listed as "By Charles Miller - April 15, 2023".

Home > Latest News > Elon Musk publicly mocks laid-off Twitter employee with a disability. Then apologizes....

Elon Musk publicly mocks laid-off Twitter employee with a disability. Then apologizes.
– ABC News

By **Charles Miller** - April 15, 2023

<https://www.inferse.com/485291/elon-musk-publicly-mocks-laid-off-twitter-employee-with-a-disability-then-apologizes-abc-news/>

Current events: Israel-Palestine



DRONES - LATEST NEWS, FEATURES & EXPERT OPINION

MIDDLE EAST

TECHNOLOGY

WAR

Israel Deploys New Military AI in Gaza War



STAFF WRITER WITH AFP X FEBRUARY 12, 2024

3 MINUTES READ

<https://www.thedefensepost.com/2024/02/12/israel-military-ai-gaza/>

Israel-Palestine

Middle East crisis — explained

Israel is using an AI system to find targets in Gaza. Experts say it's just the start

DECEMBER 14, 2023 · 4:58 AM ET

HEARD ON MORNING EDITION

 Geoff Brumfiel



<https://www.npr.org/2023/12/14/1218643254/israel-is-using-an-ai-system-to-find-targets-in-gaza-experts-say-its-just-the-st>

Israel-Palestine

INTHESETIMES

≡



The Crackdown on Campus Protests is Just Beginning

At least a dozen colleges and universities have changed their policies to make it harder to protest the war on Gaza. More may follow this summer.

ADAM FEDERMAN

JUNE 20, 2024



<https://inthesetimes.com/article/campus-protest-gaza-indiana-university-columbia-chicago>

Pro-Israeli Tech

Investigation identifies tech entrepreneur behind pro-Israel hate network: Report

A Florida-based tech entrepreneur who co-wrote a guidebook for OnlyFans users is one of the main hands behind the "Shirion Collective", investigation finds

The investigation alleged that Daniel Linden, who co-wrote a guidebook for OnlyFans users, is one of the main hands behind the 'Shirion Collective' (AFP)

By MEE staff

Published date: 29 June 2024 21:35 BST

<https://www.middleeasteye.net/news/investigation-identifies-tech-entrepreneur-behind-pro-israel-hate-network-report>



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

Thoughts about the basecamp or Twitter example?

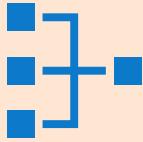


Analyzing all this looks like a job for....

Ethics



Reminder, ethics is about:



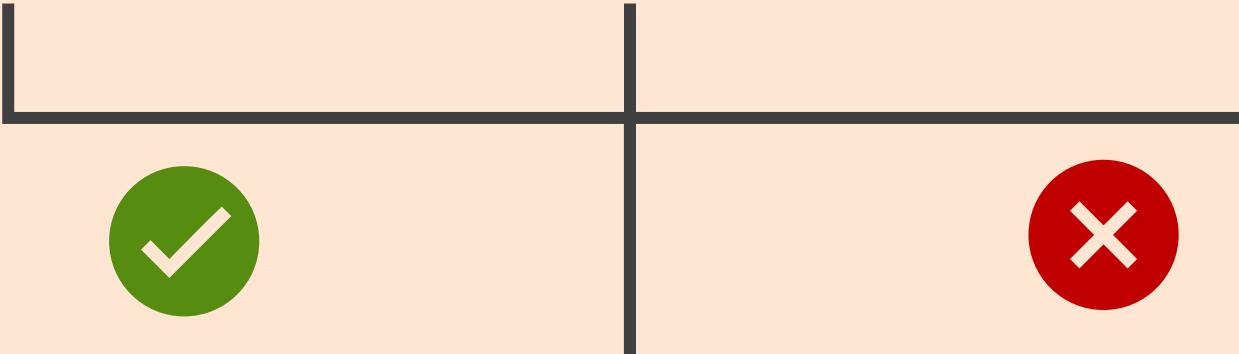
Systemizing



Defending



Recommending



**Right
Behaviors**



**Wrong
Behaviors**

Understanding why we should be doing an action.

No “right” answers

No right
answers



No answers

We should be able to **systemize**, **defend**, and **recommend**
what is right or wrong for ourselves.

We can still afford to debate though!



Disagreeing and debating on ethics leads to STRONGER ethics for everyone!

Three ethical terms to walk away with today



Technological Determinism



Techno-facism



Holism

I will explain my ethics on what is bad, and if you disagree, then I should be able to defend it to make my ethical case stronger!

Connecting the dots of technology and ethics

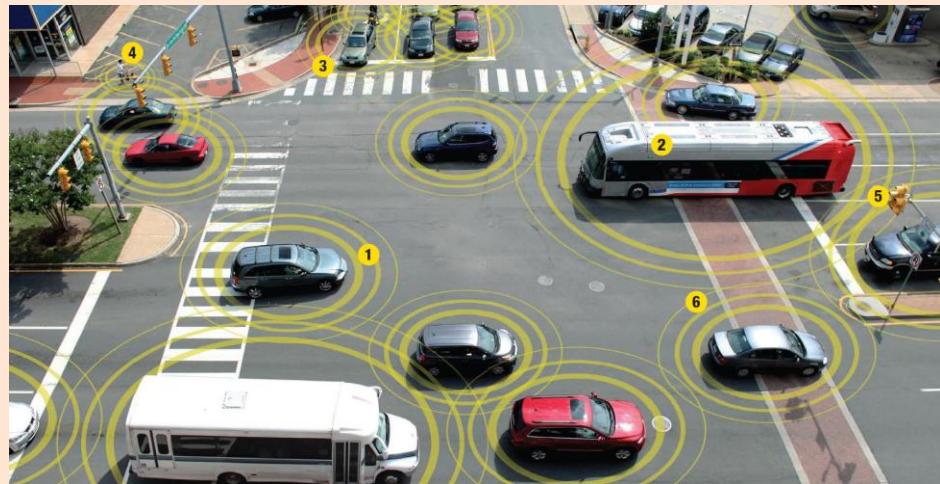
Technology, Society, and Ethics



Logistics
Lecture
Group Time

Technology

- **Objects that provide a “solution” to a problem**
- **Technique of knowledge**
- **Set of objects that exist only within certain social relations.**



Technology

When we think about technology as an “object” we cut it out of the social context that it exists in.

This causes:

- **Commodification of technology**
- **Fetishizing technology**

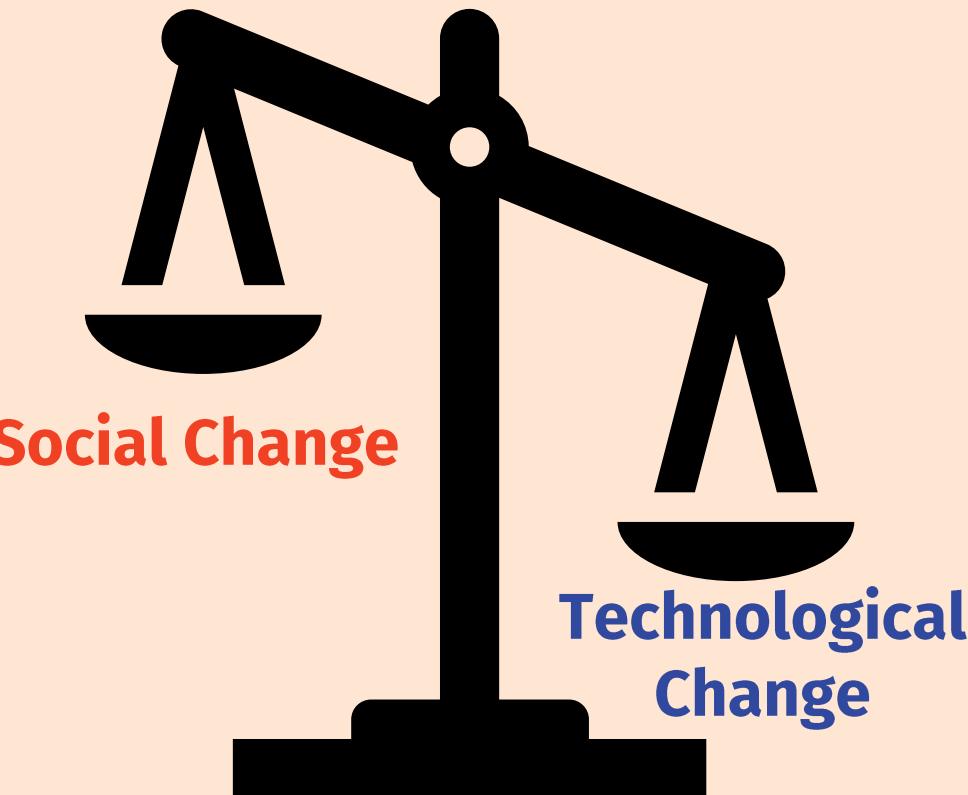


Society

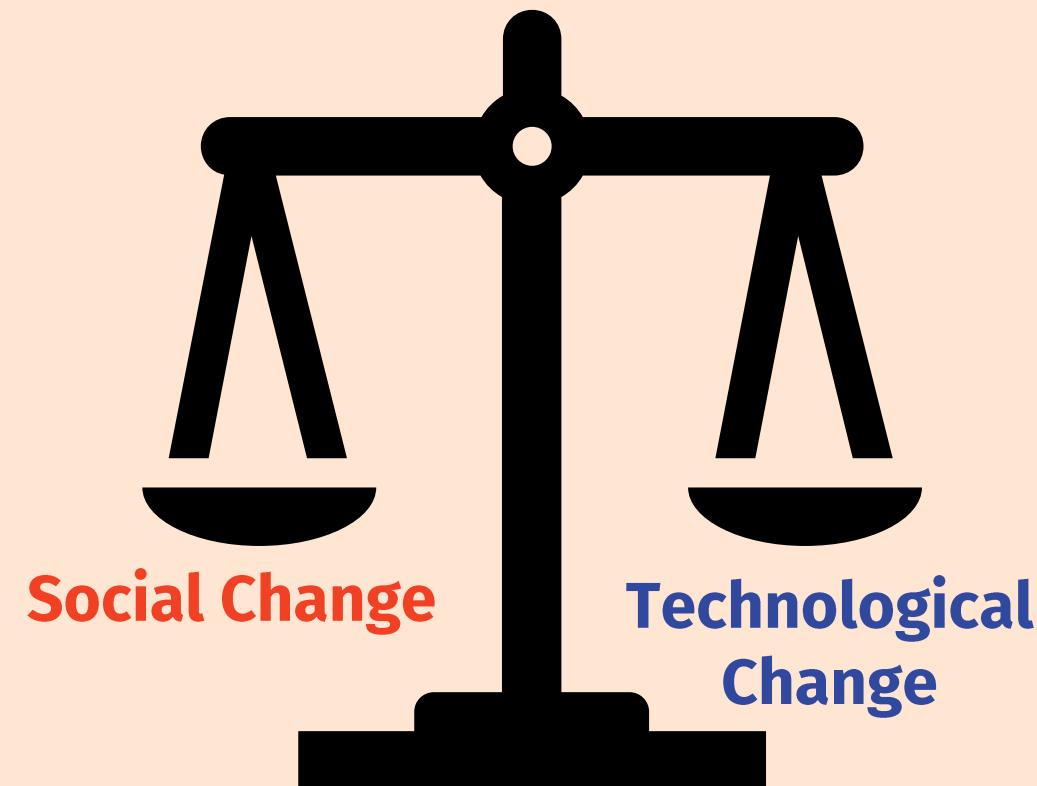


“We live in a society”

As a society where we are at:



Where we need to be:



Why is this the current state?

We have tools to solve social issues like:

- Hunger
- Climate change
- Police brutality
- Houselessness

But....

We spend resources on trying to find “new” bigger and better technical solutions instead of addressing root causes.

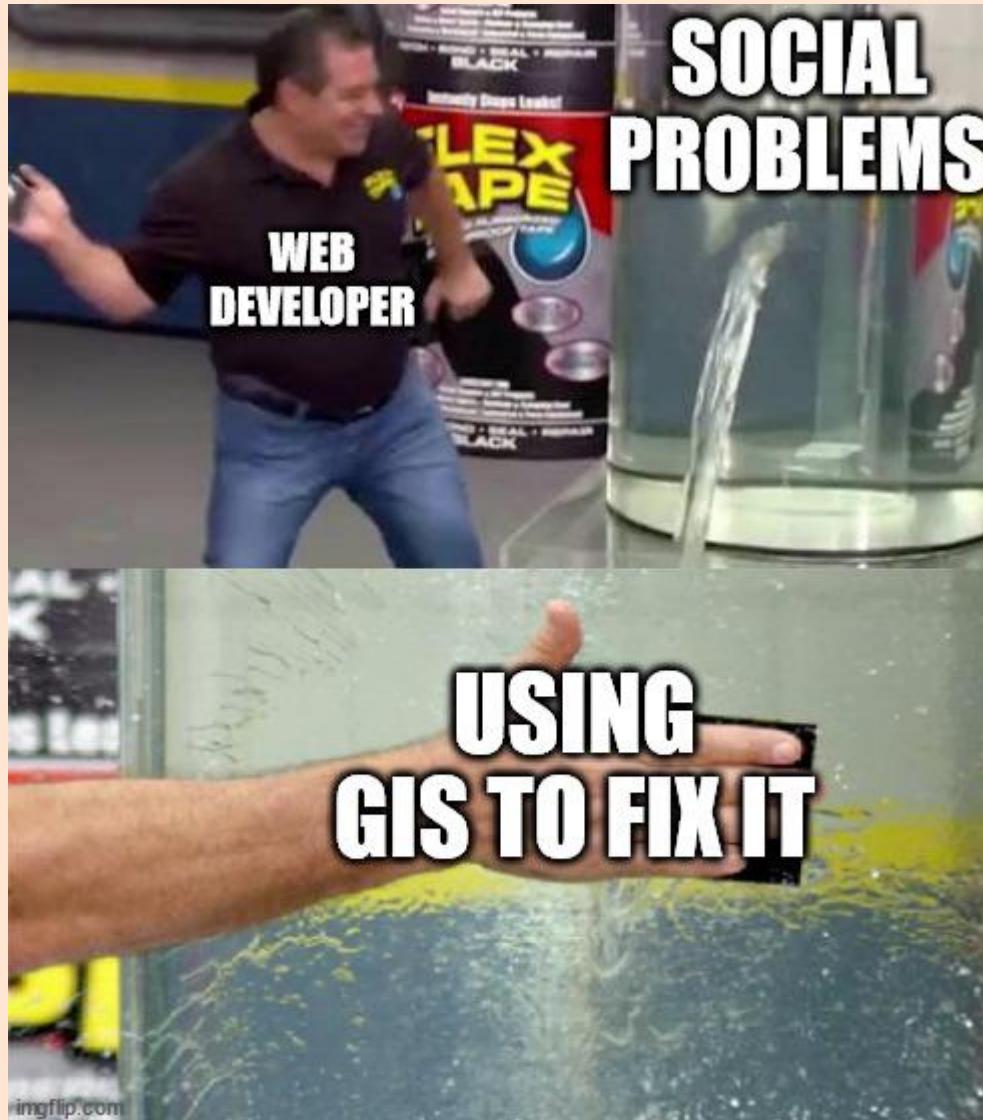
Why?

It's easier to invest in or create new technology than to face the causes of social problems.

My main ethical point today

You cannot solve **social problems with just technology.**

Don't be this type of web developer



**Even “scientific” problems are more effected
by society than technology...**

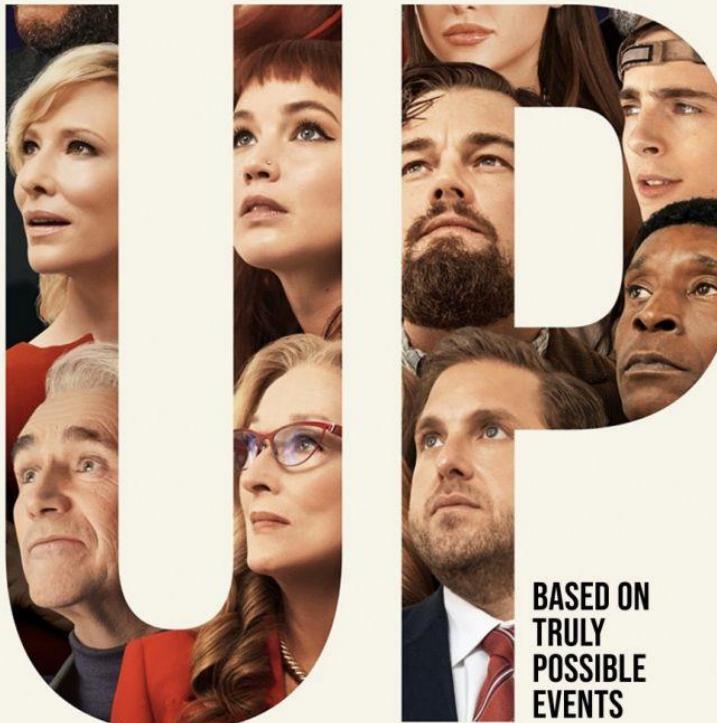
Any examples?

LEONARDO
DiCAPRIO

JENNIFER
LAWRENCE

ROB JONAH MARK TYLER TIMOTHÉE RON ARIANA SCOTT WITH CATE AND MERYL
MORGAN HILL RYLANCE PERRY CHALAMET PERLMAN GRANDE MESCUDI BLANCHETT STREEP

Don't Look Up



BASED ON
TRULY
POSSIBLE
EVENTS

A FILM BY ADAM McKAY
DON'T LOOK UP

NETFLIX PRESENTS A HYPEROBJECT INDUSTRIES PRODUCTION A FILM BY ADAM McKAY LEONARDO DiCAPRIO JENNIFER LAWRENCE "DON'T LOOK UP" ROB MORGAN JONAH HILL MARK RYLANCE TYLER PERRY TIMOTHÉE CHALAMET RON PERLMAN ARIANA GRANDE SCOTT MESCUDI WITH CATE BLANCHETT AND MERYL STREEP CASTING BY FRANCINE MAISLER MUSIC BY GABE HILFER COSTUME DESIGNER SUSAN MATHESON EDITED BY HANK CORWIN, ACE PRODUCTION DESIGNER CLAYTON HARTLEY DIRECTOR OF PHOTOGRAPHY LINUS SANDGREN, ASC, FSF EXECUTIVE PRODUCER JEFF WAXMAN PRODUCED BY ADAM McKAY, p.g.a. & KEVIN MESSICK, p.g.a.

STORY BY ADAM McKAY & DAVID SIROTA SCREENPLAY BY ADAM McKAY DIRECTED BY ADAM McKAY

HYPEROBJECT
INDUSTRIES



IN SELECT THEATERS DECEMBER AND ON

NETFLIX | DECEMBER 24

NETFLIX



Health Topics ▾

Countries ▾

Newsroom ▾

Emergencies ▾

Data ▾

About WHO ▾



02.16.2022

SARAH LAZARE



Pharmaceutical Monopolies Are Still Preventing Full Access to COVID Vaccines Around the World

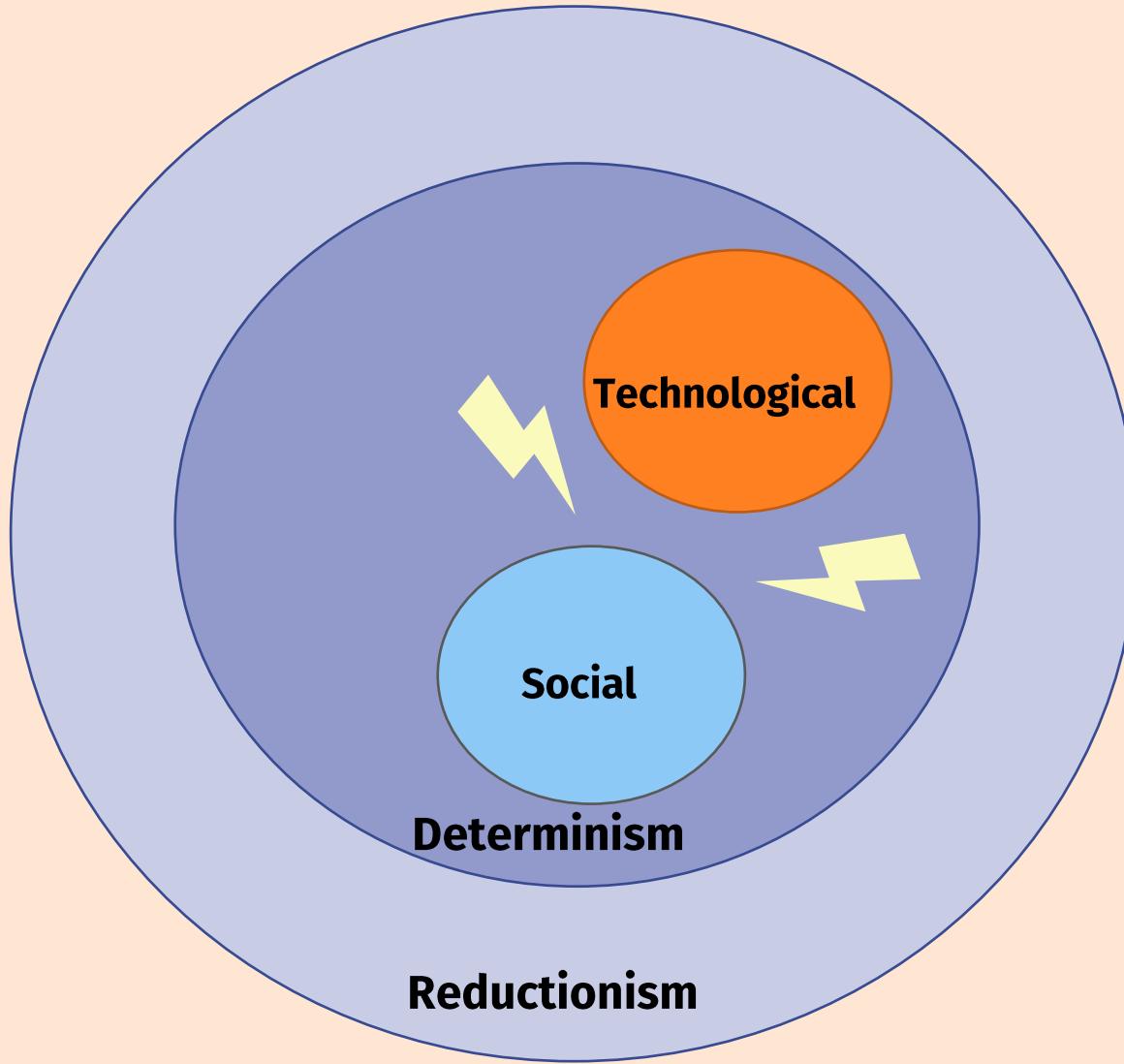
South African scientists are nearly finished reverse engineering Moderna's COVID-19 vaccine. They are forced to waste precious time and resources recreating a vaccine that already exists, because for-profit science protects industry profits over human life.

<https://www.jacobinmag.com/2022/02/pharmaceutical-monopolies-access-covid-19-vaccine-global-south-moderna-patents>

Time to SET the stage with some philosophy

What do you call the idea reducing something into simpler components?

Reductionism

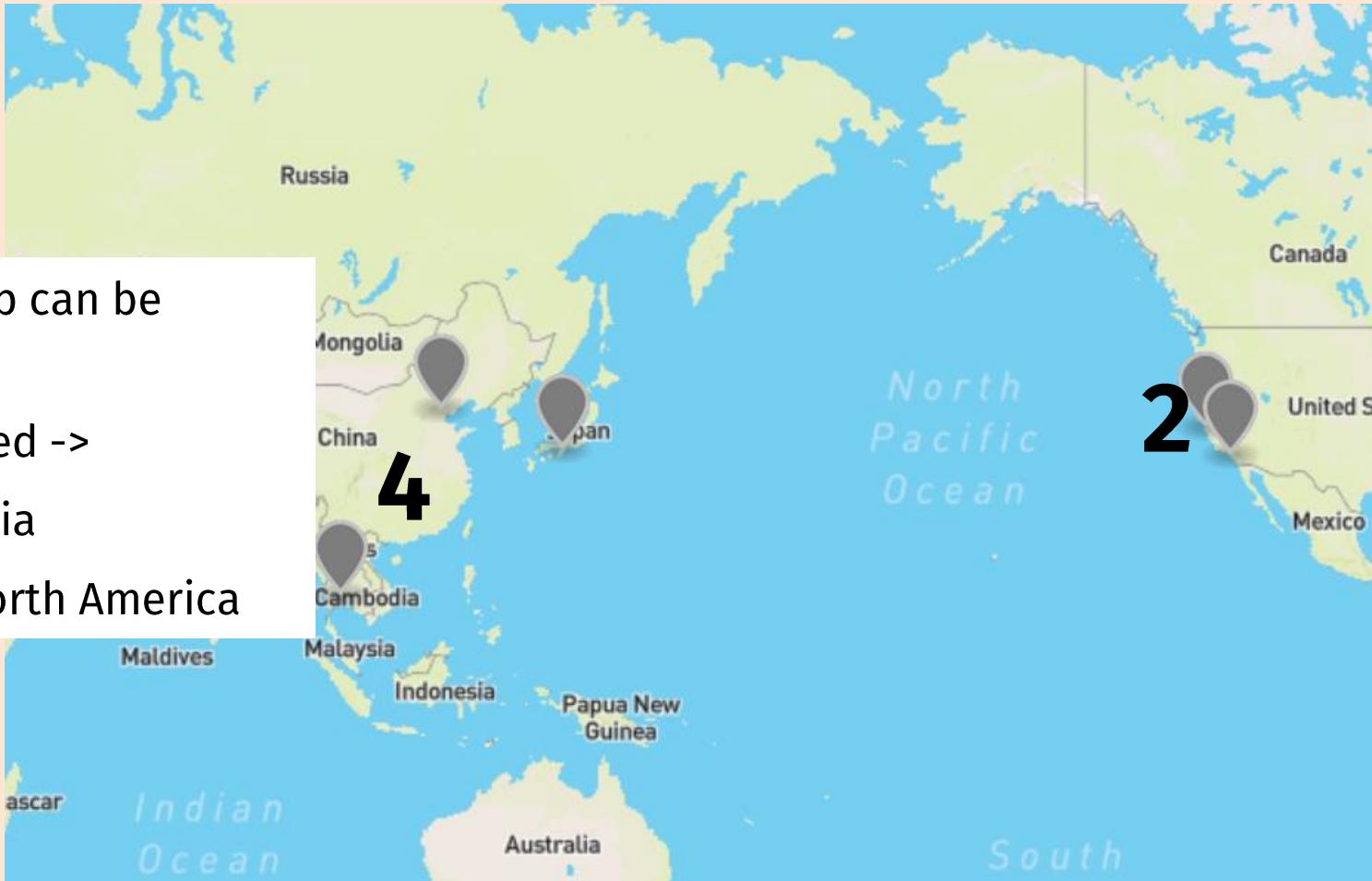


Reductionism



In the social sciences:
Reduces qualitative data into **quantitative**.

Reductionism

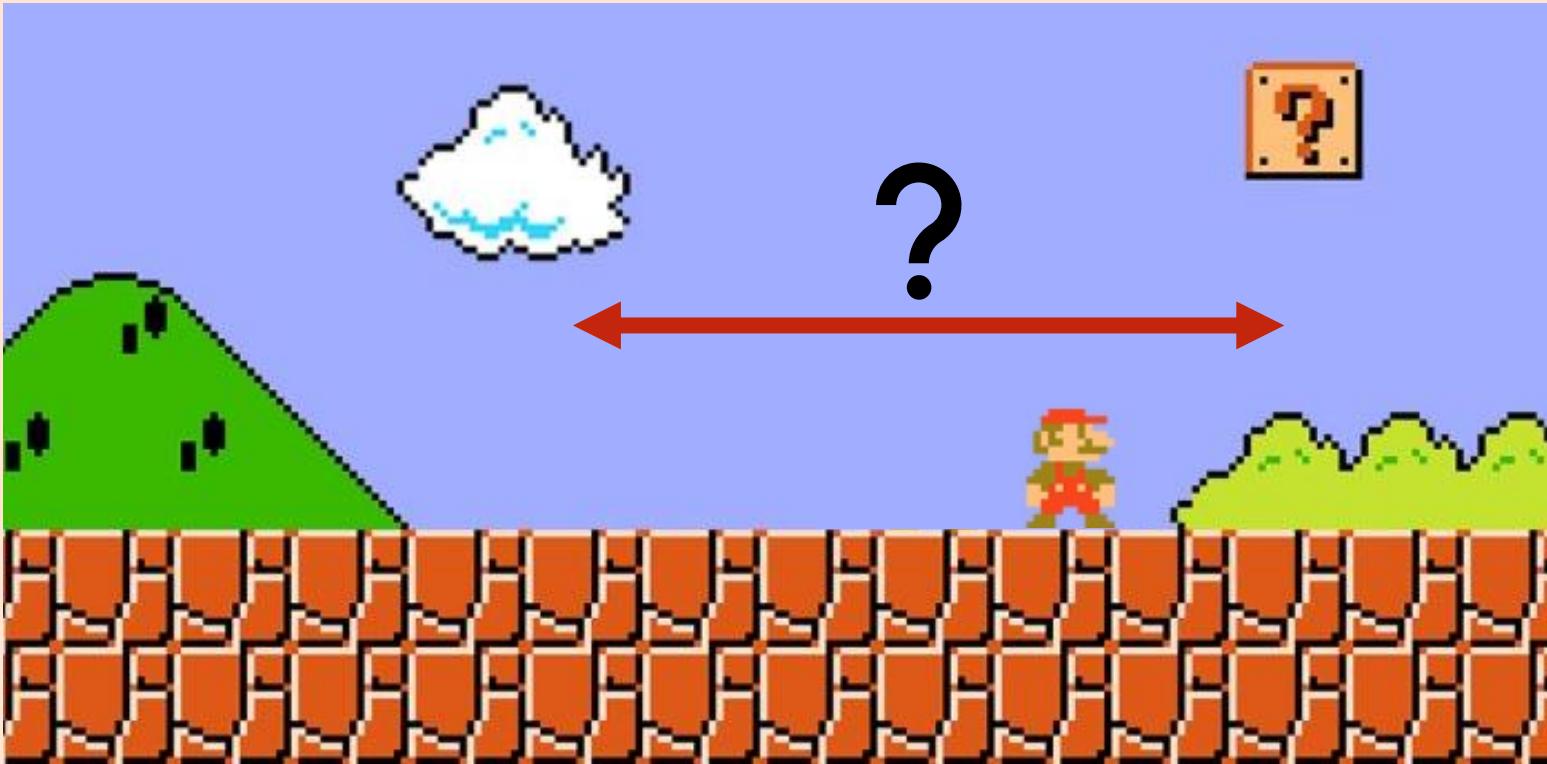


For example... this map can be reduced to:

- Places where I lived ->
 - 4 points in Asia
 - 2 points in North America

Reducing my experiences to numbers on a continent, introduces a loss of information. Which country in Asia did I live in??

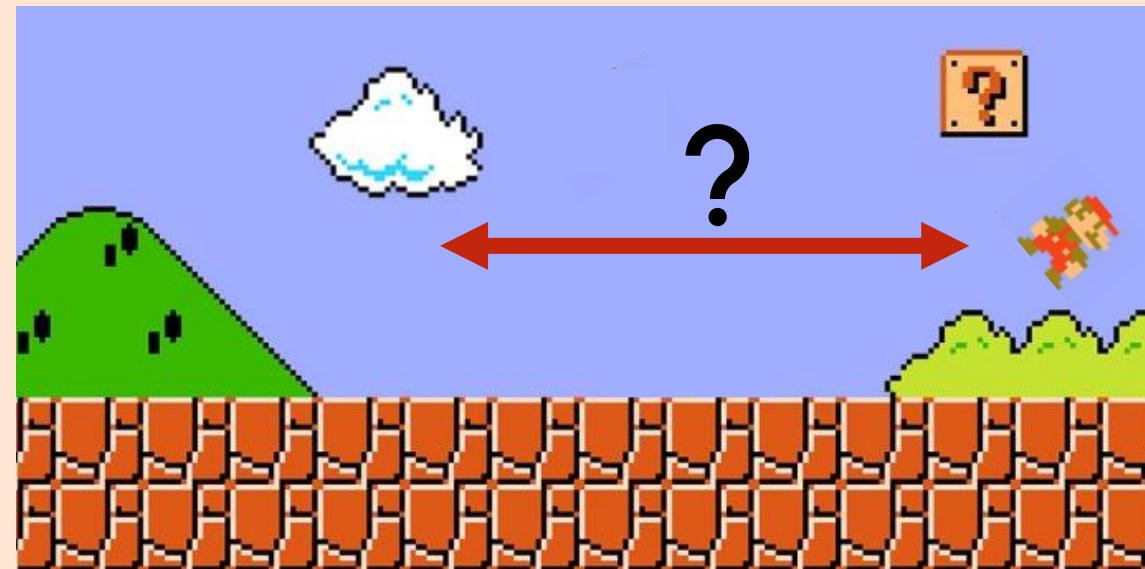
Determinism



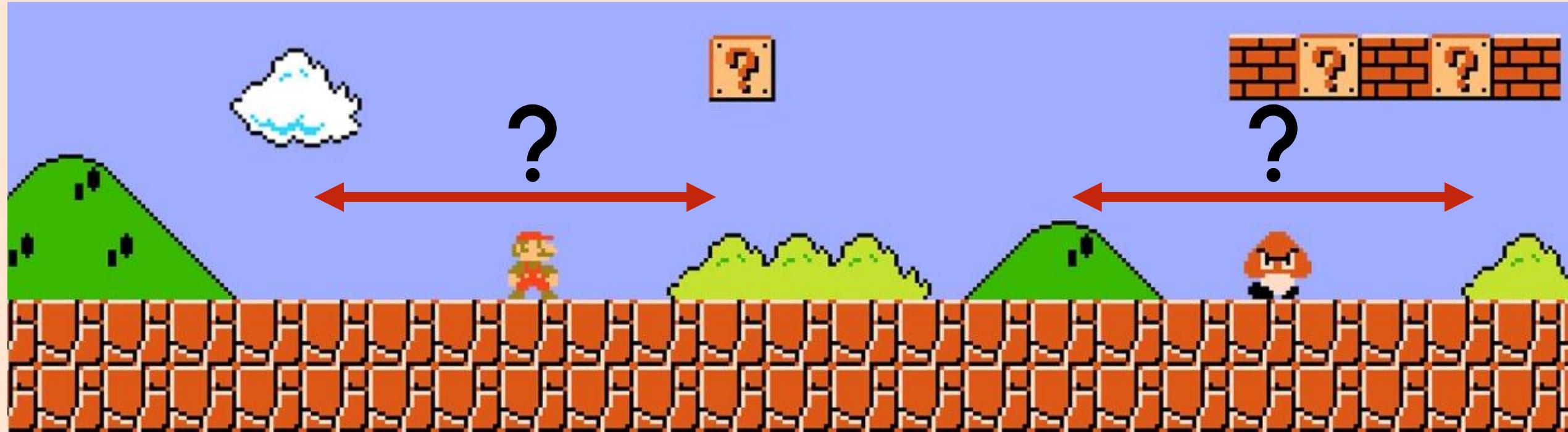
All our actions are pre-determined because it is governed by systems

Free-Will

Systems are chaotic so there no pre-determined events can be attributed to them



Compatibilists



Determinism and free-will can co-exist.

Ex. Mario and the goomba are free to go any way,
but **WITHIN** a pre-defined system

Technological Determinism

The idea that technology will solve all social problems.

Example: We can “invent” our way out of climate change.

Technological Determinism

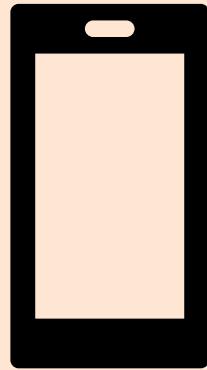
THE WORLD IF...



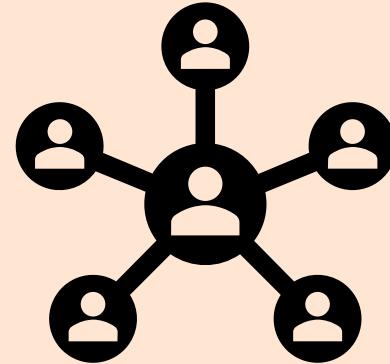
WE ONLY HAD THE RIGHT TECHNOLOGY

Technological Determinism

Technology



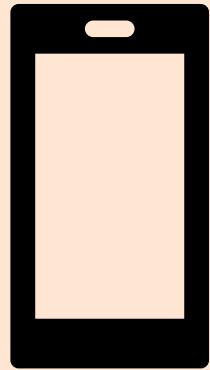
Society



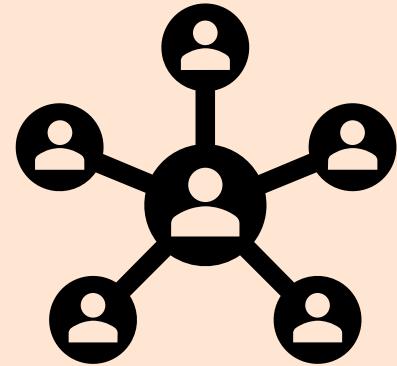
Technology is the force that changes society

Technological Determinism

Technology



Society

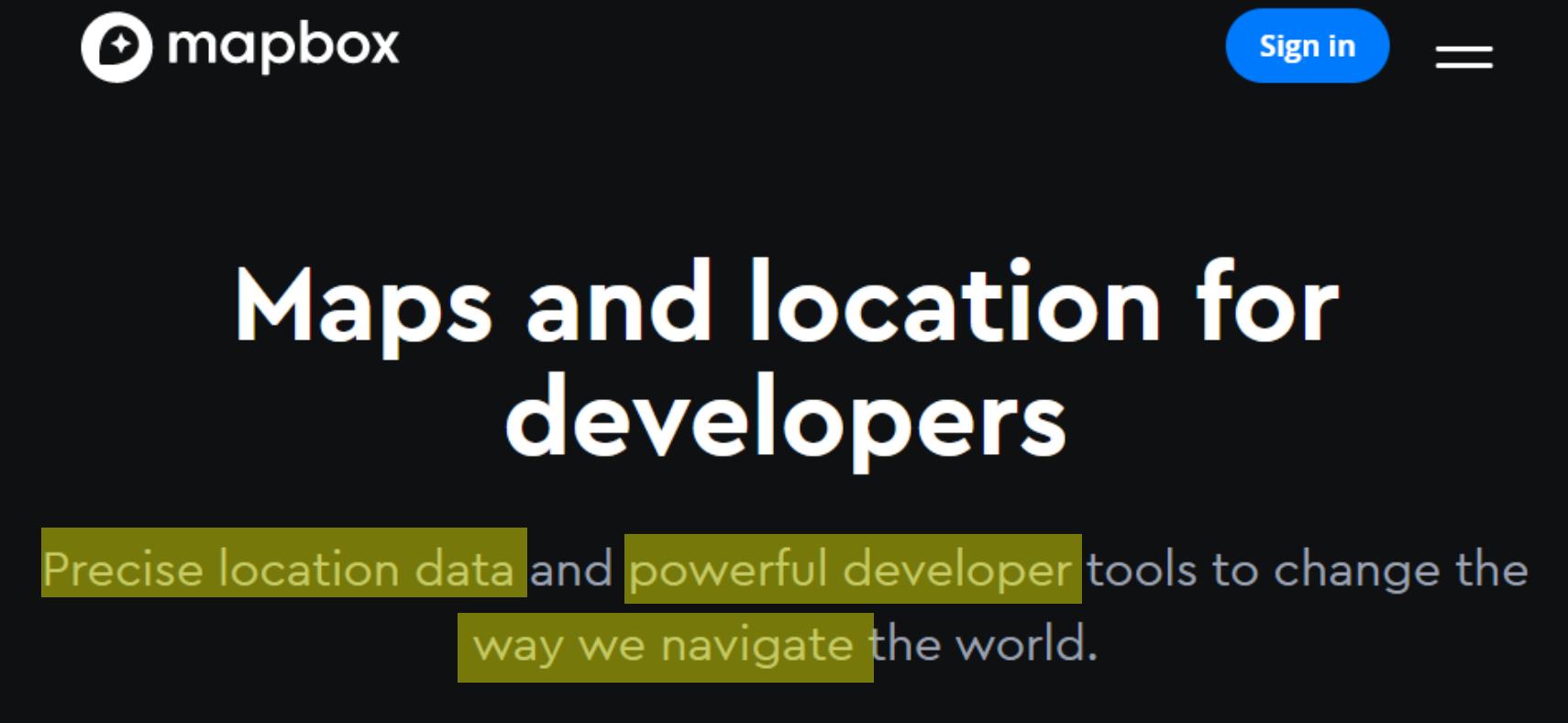


“Phones will improve people’s life.”

Let's apply this to mapping



Mapping Technologies

A screenshot of the Mapbox website homepage. The header features the Mapbox logo (a white circle with a black star-like icon) and the word "mapbox" in white lowercase letters. To the right is a blue "Sign in" button and a user icon. Below the header, the main title "Maps and location for developers" is displayed in large, bold, white font. A descriptive subtitle follows: "Precise location data and powerful developer tools to change the way we navigate the world." The text is presented in white on a dark background.

Sign in =

Maps and location for developers

Precise location data and powerful developer tools to change the
way we navigate the world.

Mapbox is for DEVELOPERS!

Mapping Technologies



The image shows a red rectangular banner from the CARTO website. In the top left corner is the white 'CARTO' logo with a small circular icon. In the top right corner is a white three-line menu icon. The central text reads 'Unlock the **power** of spatial analysis' in white, with 'power' highlighted in a yellow box. Below this, in smaller white text, is the sentence 'The only cloud-native Location Intelligence platform'. The background of the banner is red.

CARTO

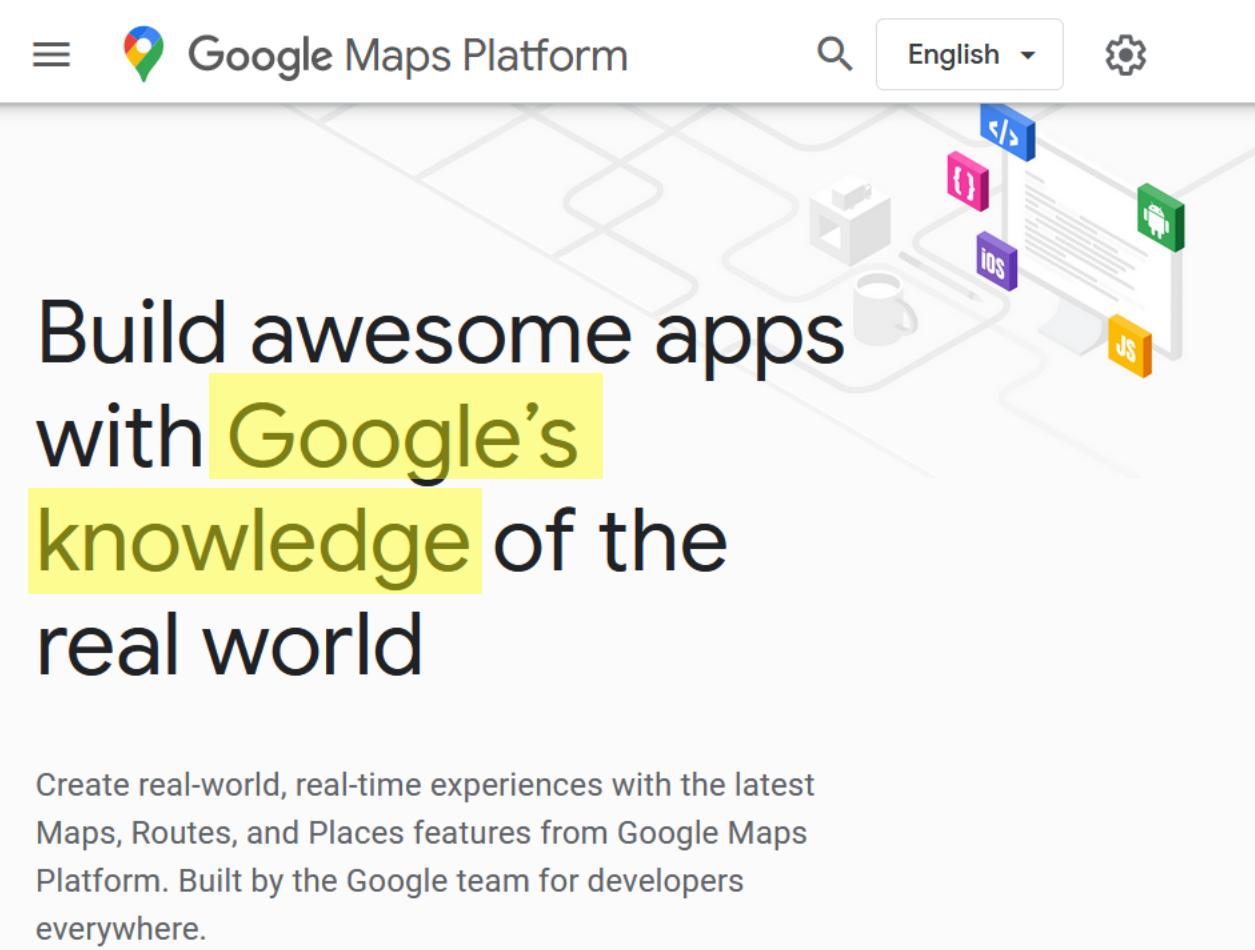
≡

Unlock the **power** of
spatial analysis

The only cloud-native Location Intelligence platform

CARTO is for SPATIAL ANALYSIS

Mapping Technologies

A screenshot of the Google Maps Platform homepage. The top navigation bar includes the Google Maps Platform logo, a search bar, language selection (English), and a settings gear icon. Below the header, there's a large call-to-action text: "Build awesome apps with Google's knowledge of the real world". To the right of the text is a graphic showing a smartphone displaying a map, with various developer icons (HTML/CSS, JavaScript, Java, Python, C/C++, C#, Swift, Kotlin) floating around it. A detailed description below the main text reads: "Create real-world, real-time experiences with the latest Maps, Routes, and Places features from Google Maps Platform. Built by the Google team for developers everywhere."

Build awesome apps
with Google's
knowledge of the
real world

Create real-world, real-time experiences with the latest
Maps, Routes, and Places features from Google Maps
Platform. Built by the Google team for developers
everywhere.

Use Google's KNOWLEDGE to BUILD!

Mapping Technologies



Discover your POWER with ArcGIS!

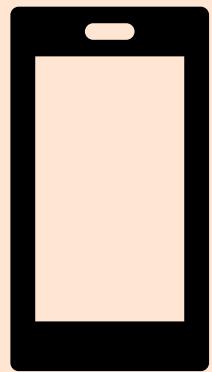
Why are these examples problematic?

Separates society's role in creating the technologies.

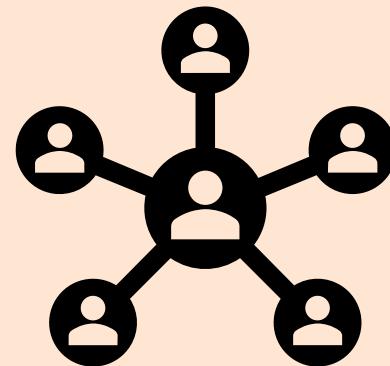
Social Determinism

Social Determinism

Technology



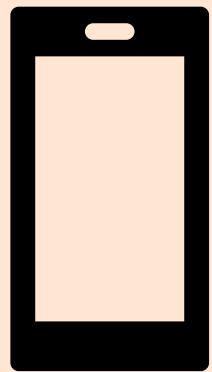
Society



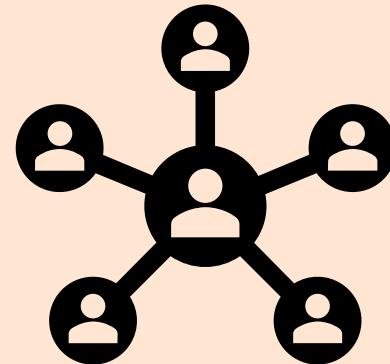
Technology is a result of the society

Social Determinism

Technology



Society



“People created phones to talk easier.”

Examples



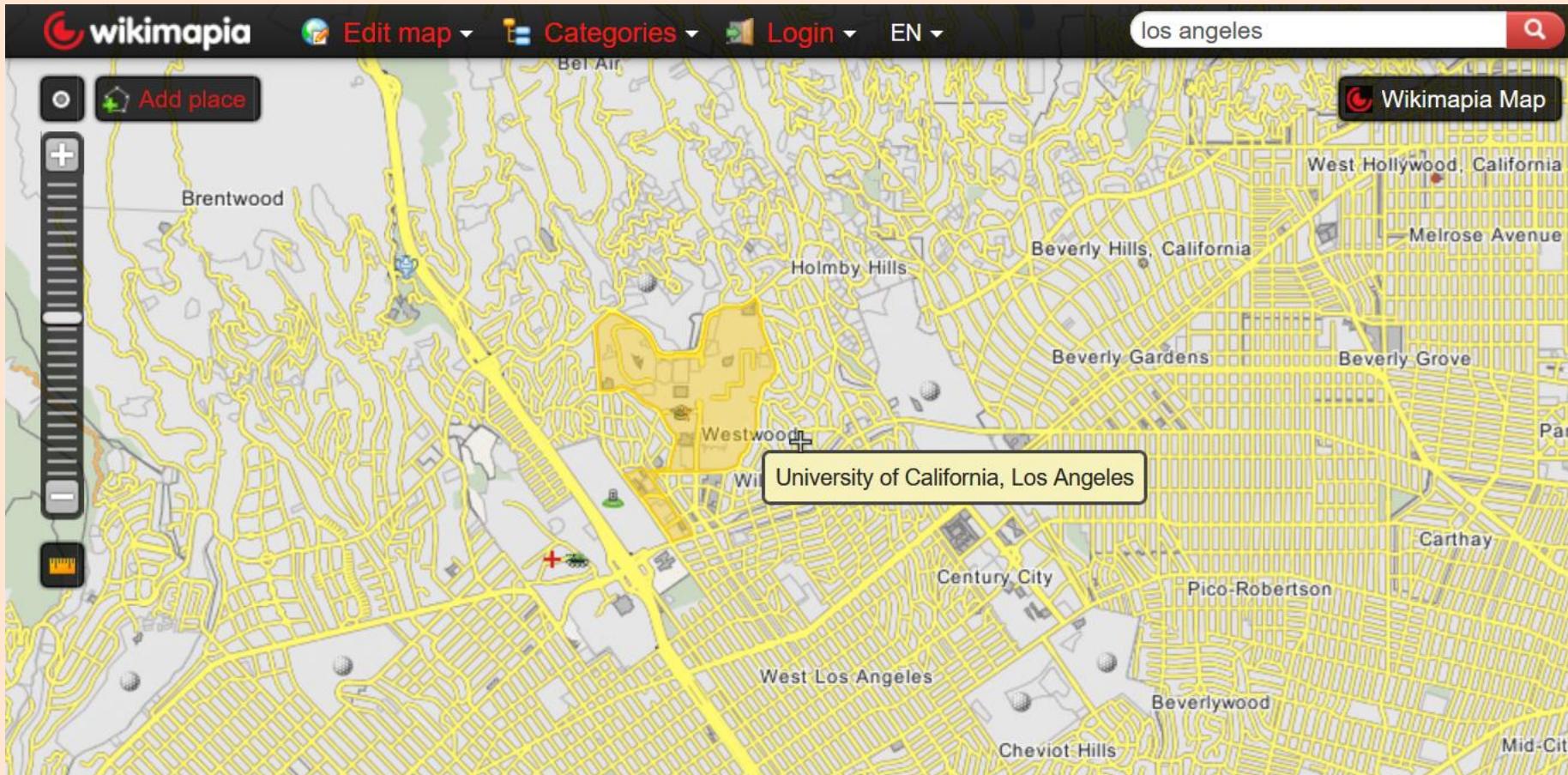
an open-source JavaScript library
for mobile-friendly interactive maps

Examples

MapLibre GL JS

Open-source TypeScript library for publishing maps on your website. Great performance due to GPU-accelerated vector tile rendering.

Examples



Recapping

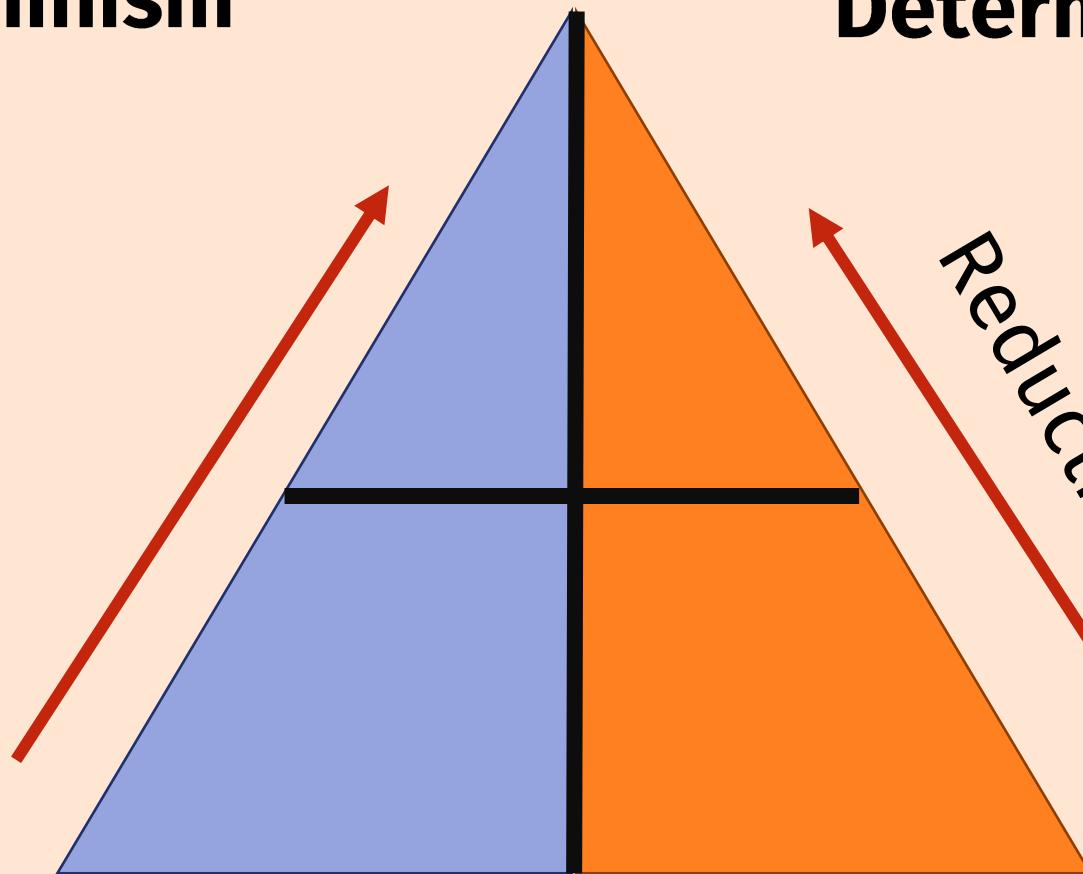
**Technological
Determinism** **Social
Determinism**

Hard

Soft

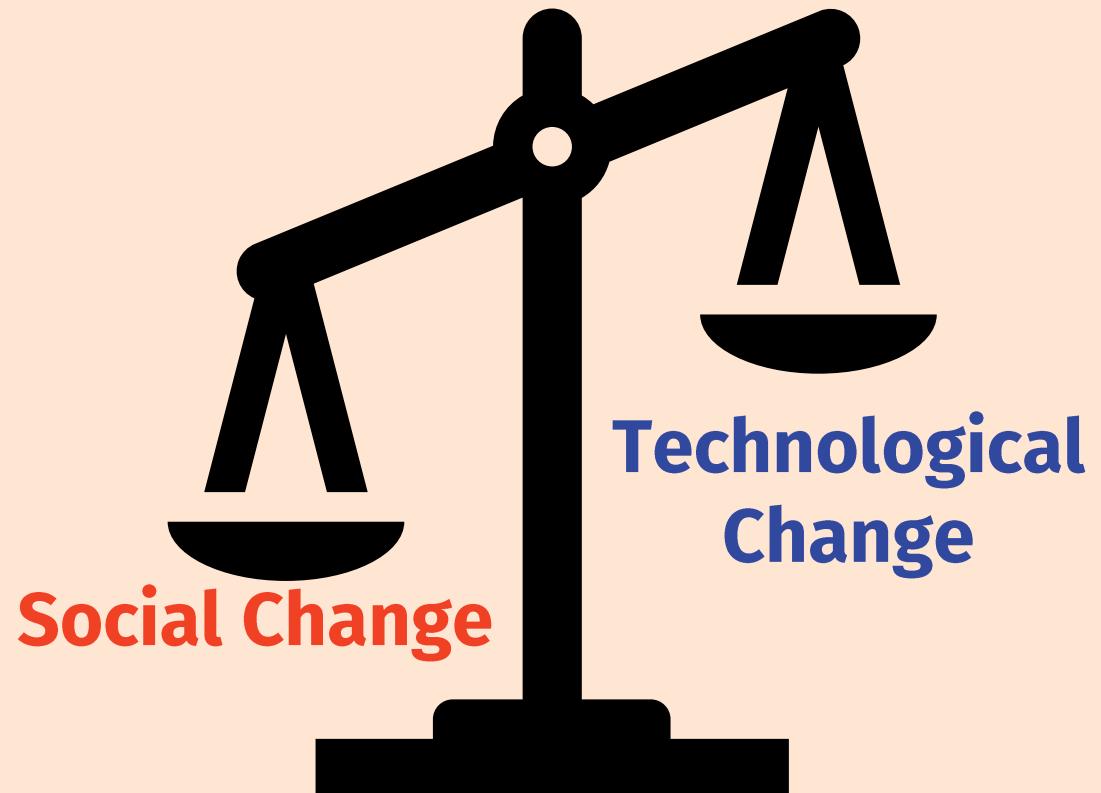
vs.

Reductionism



Main takeaway

Reductionism is problematic because it only re-aligns the balance in one direction.



**Wait.. This is a technology skills class..
Shouldn't we focus on technology solutions?**

No, because.. It leads to...

Techno-Fascism



Technocracy/Techno-Fascism

Fascism – Oppression of opposing thoughts

Technocracy – Rule by only those with expertise

Techno-Fascism = Fascism + Technocracy

Technocracy/Techno-Fascism

**Techno-Fascism – Rule by those with expertise
that oppresses opposing thoughts**

Techno-Fascism

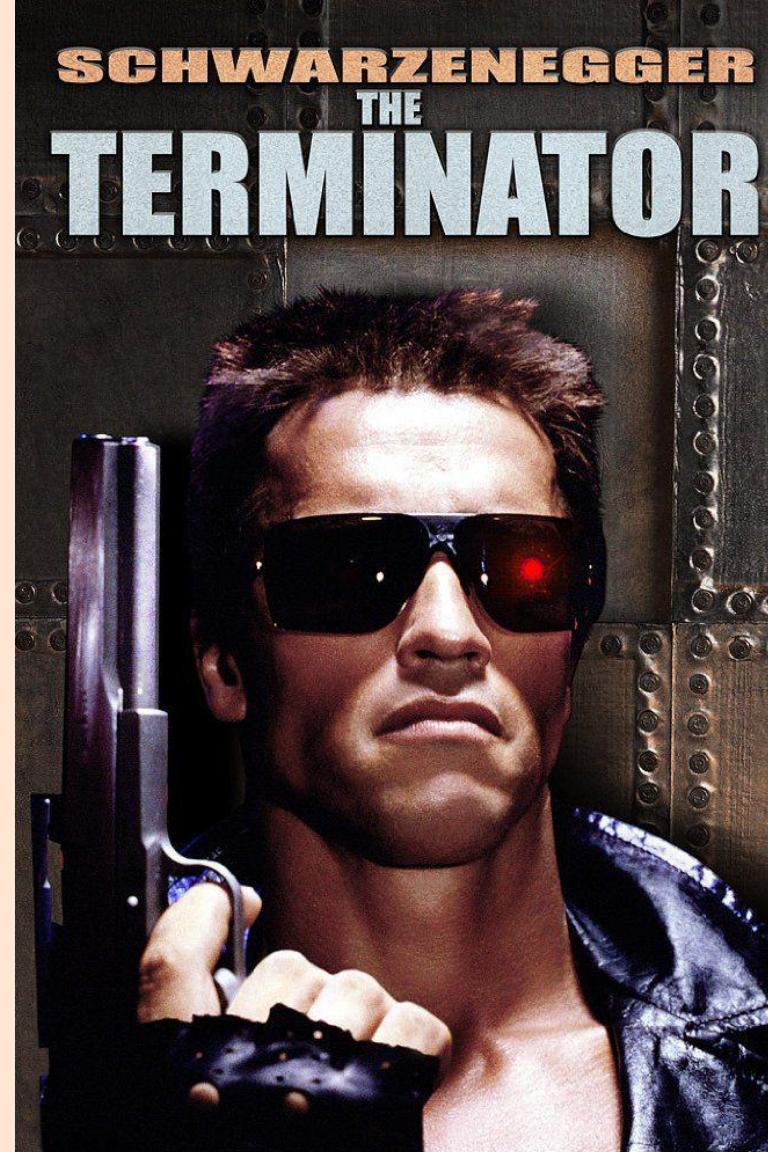
'Unstoppable' AI raises concerns, need for regulation

By: Kathryn McNutt // The Journal Record // April 13, 2023

"Big tech, machine learning, AI is too big and inevitable, people cannot stand up against it."

Techno-Fascism





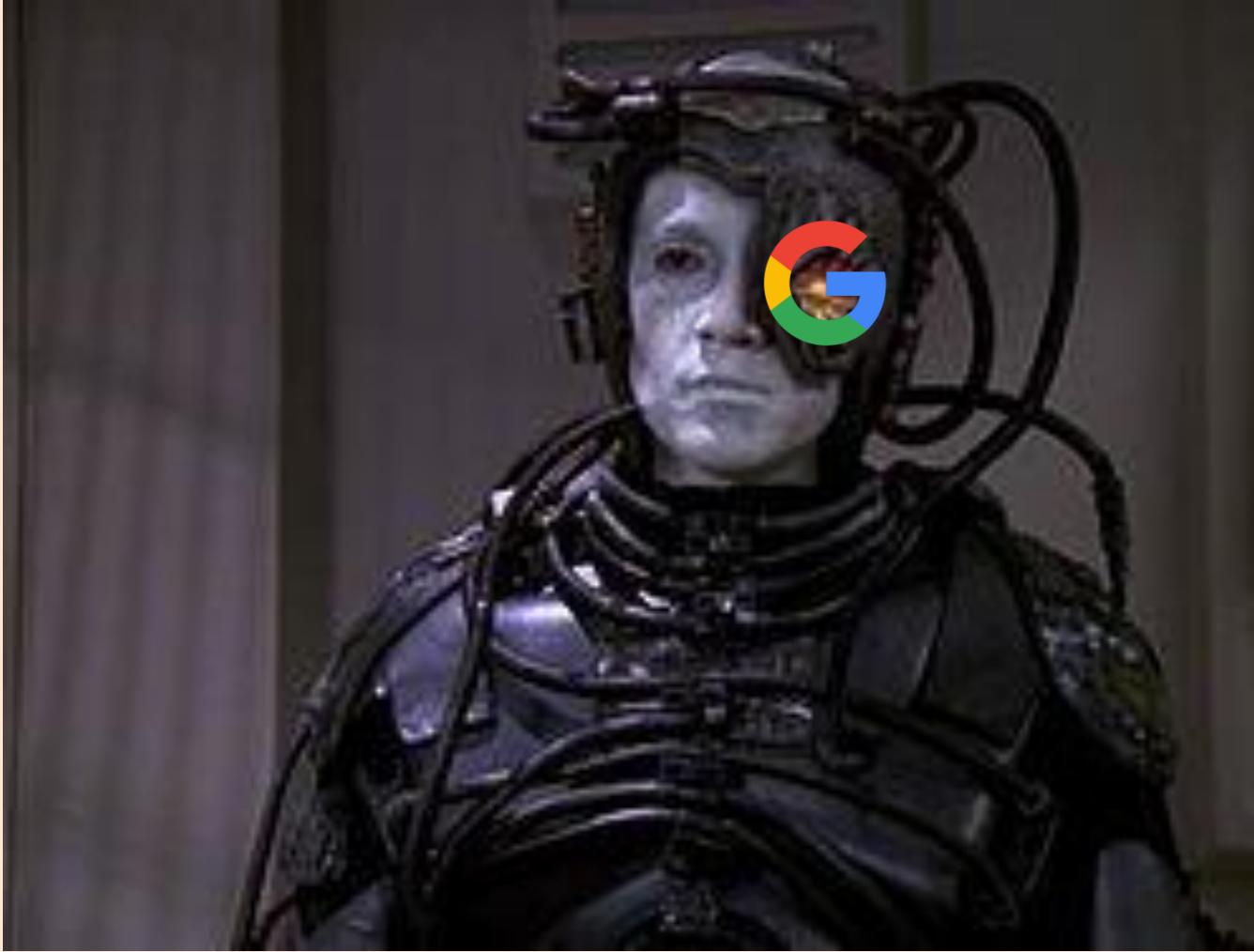
OF FREEDOM

Hasta la vista freedom

What it really means is

“I have more ‘technical’ skills and know more than you, so I am better than you, do not resist.”

-Every Big Tech CEO



Resistance is futile.

What it really means is

Commodification of humans as data points.

Fetishism of knowledge and technology.

Decouples the impacts of society on technology and vice-versa.

Is there an alternative?

Holism

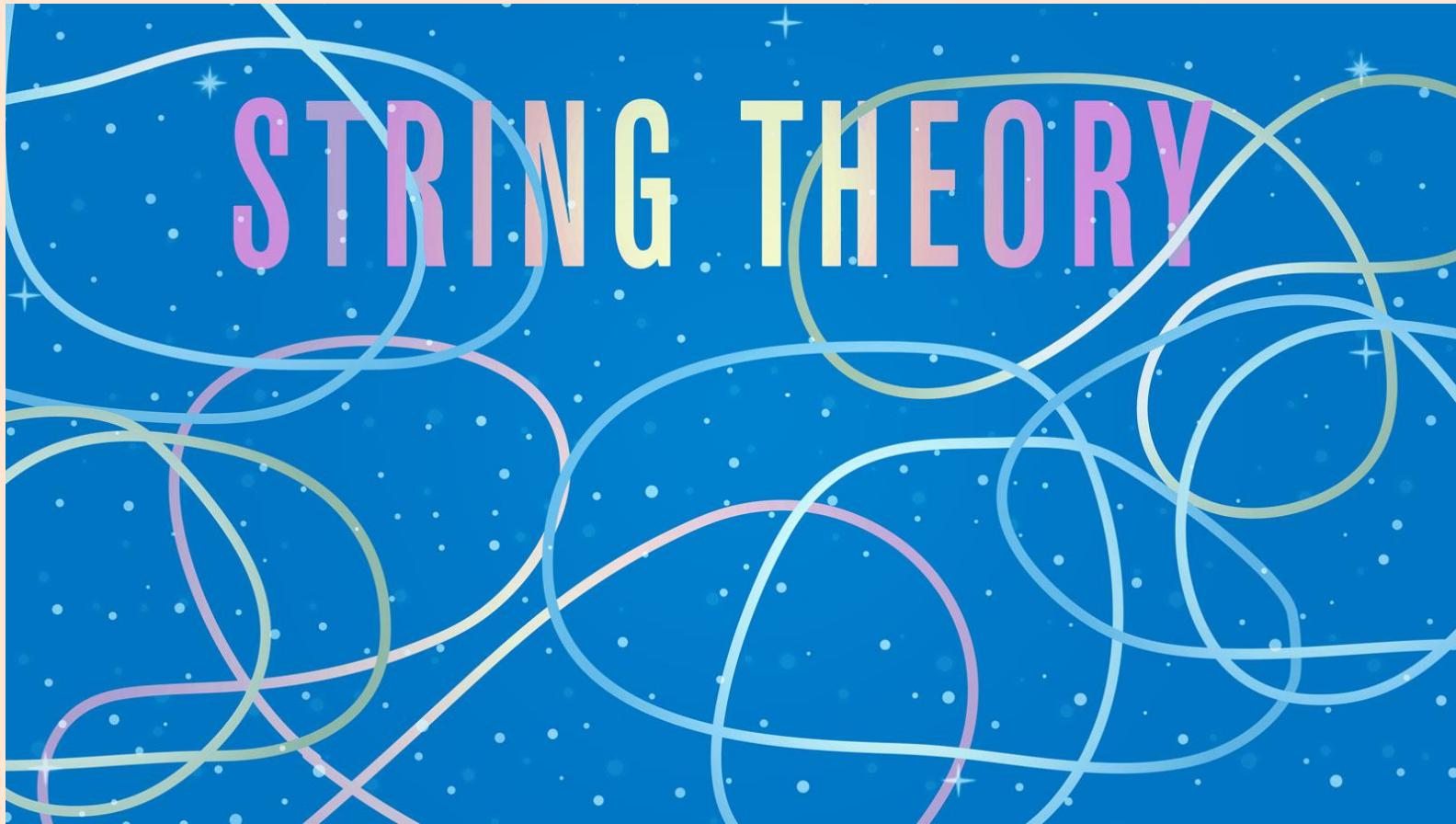


“Some process or phenomenon cannot be broken into parts, and can only be understood as a whole”

<https://cseweb.ucsd.edu/~goguen/courses/275f00/s2.html>

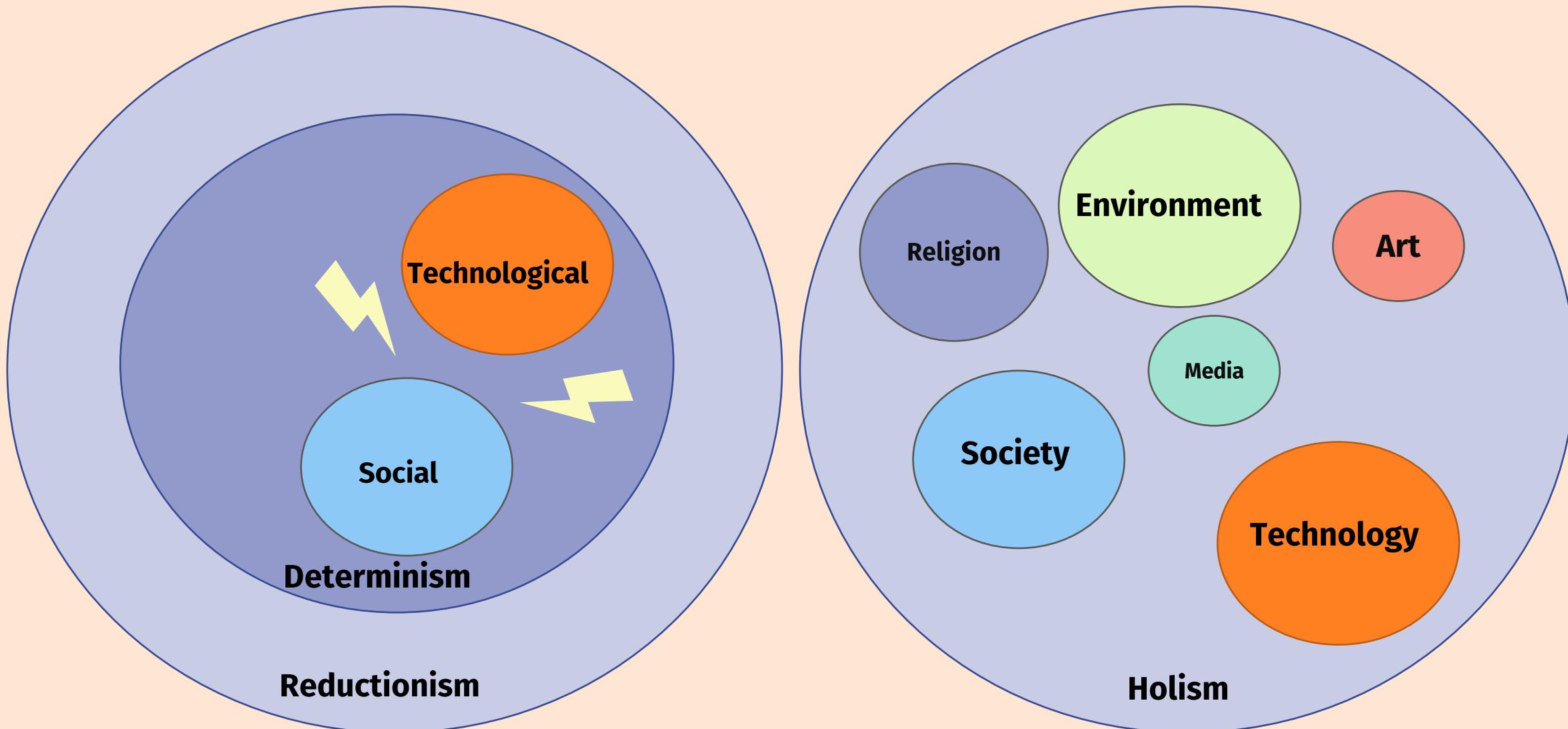
Reinforces the direct connection of technology and society.

Holism



Goes against western concepts of knowledge... but slowly being adopted, even in “hard sciences”

Reductionism vs Holism

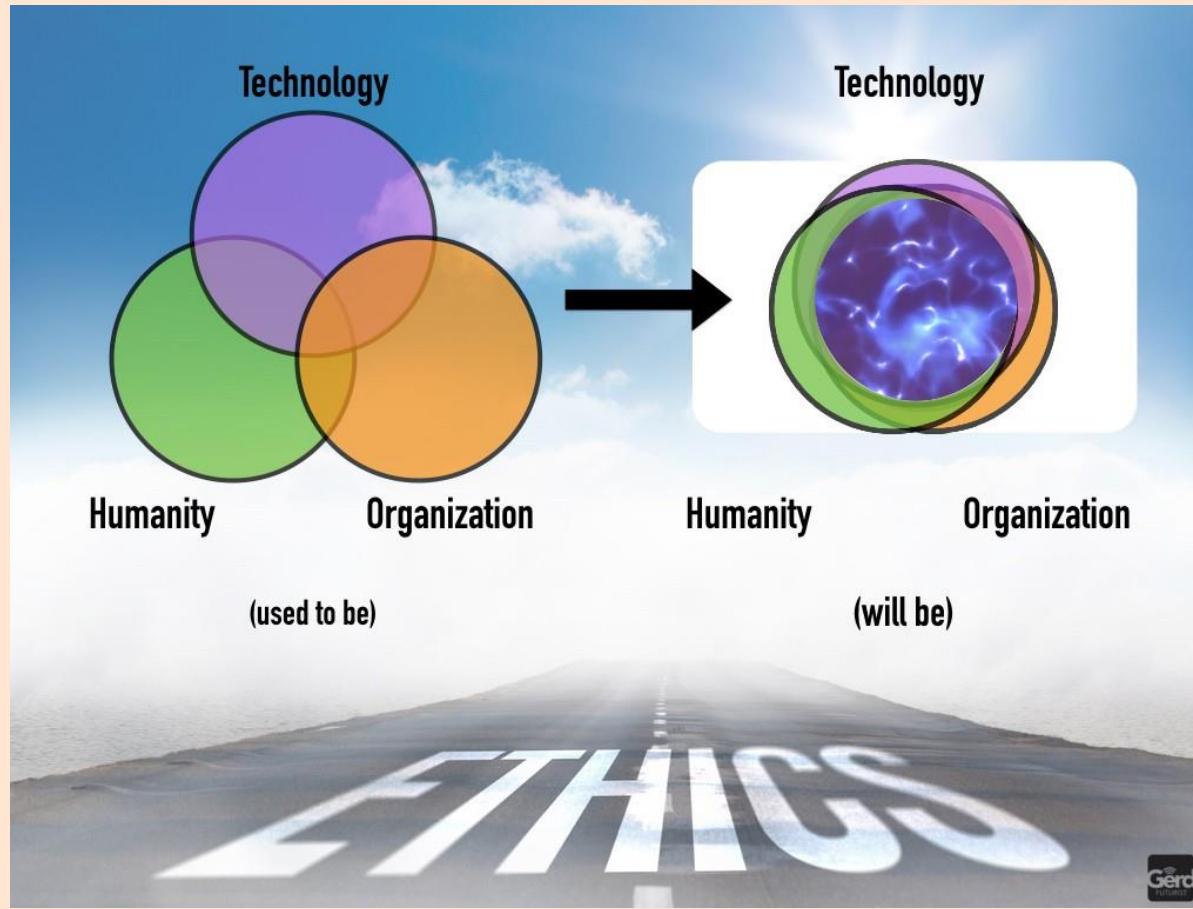


Eastern perspectives on holism



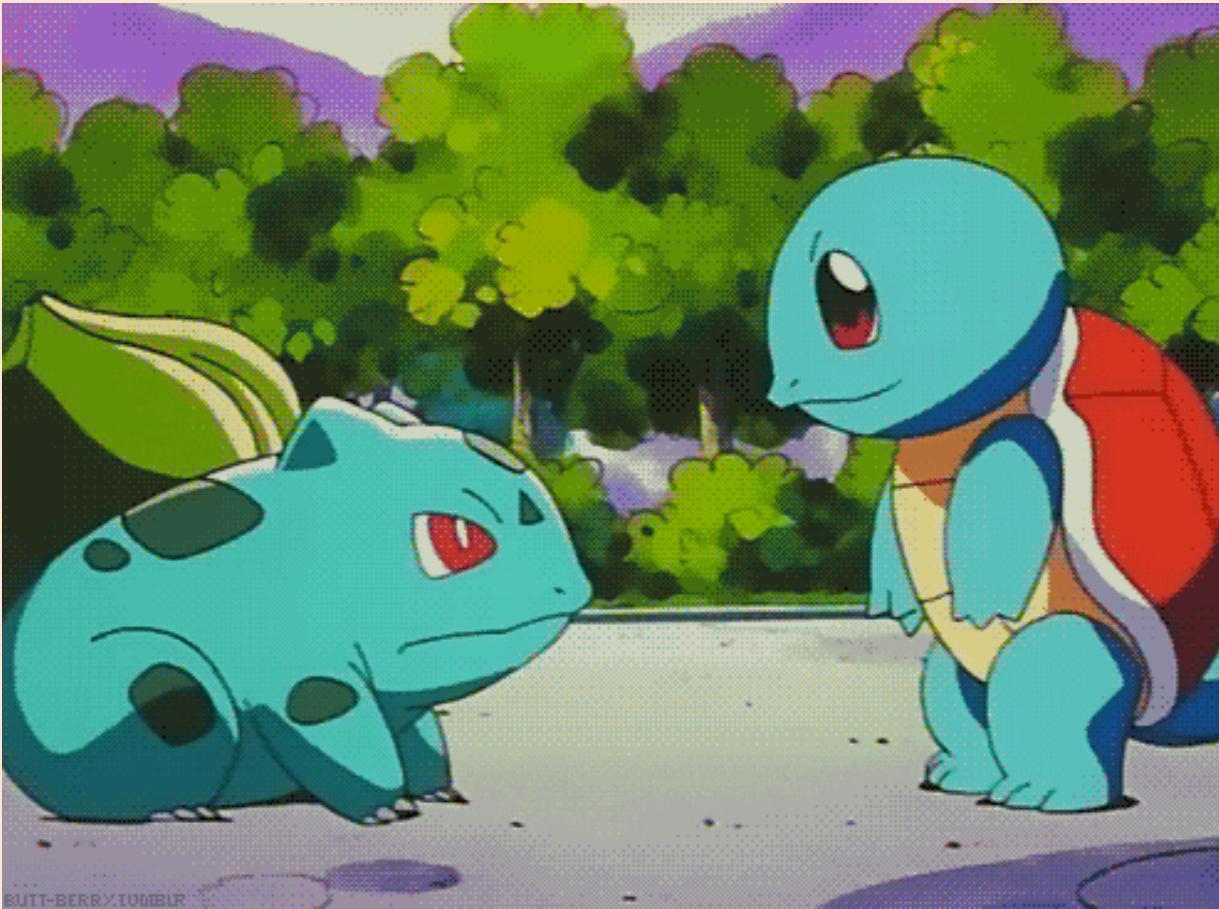
Buddhism and Hinduism believe in a middle path to describing our decision-making by connecting it to consequence of our actions.

What AA-191-About us?



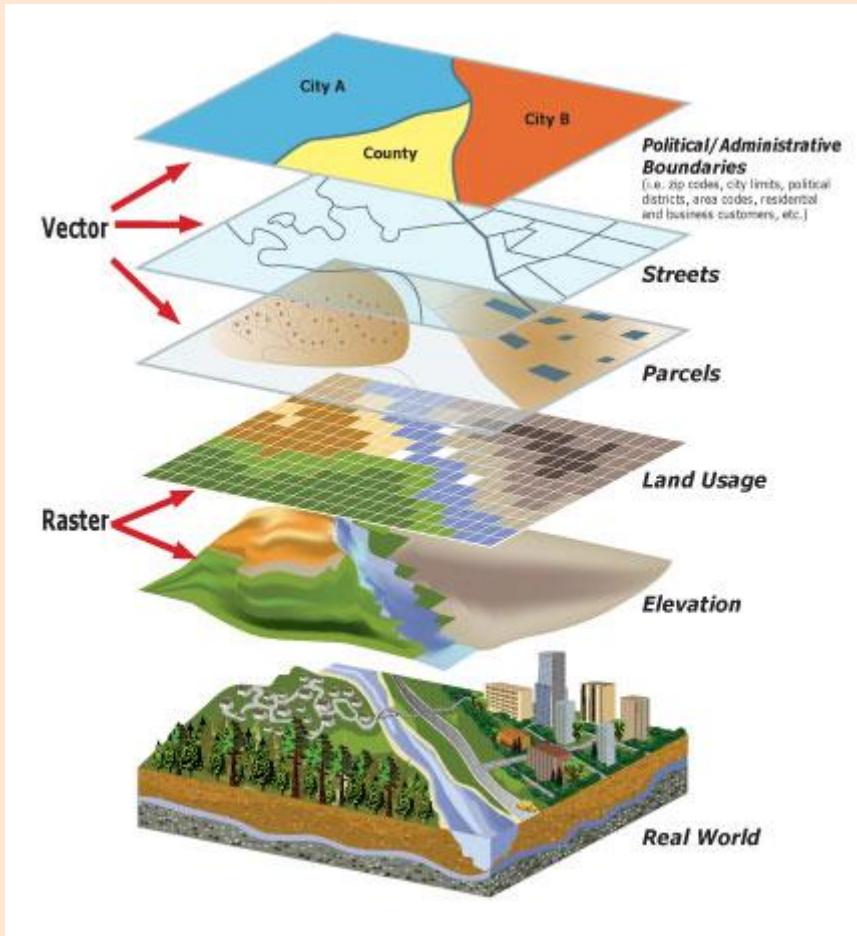
No surprise that this course in being taught in the Asian American Studies department then!

What AA-191-About us?



Your **mental health**, **ability to ask questions**, etc. allows the class to be better.

Holism in GIS?



Reductionism

esri Charging Up: Lifecycle of a Battery Raw Materials Cobalt A Story Map

The screenshot shows a story map titled "Charging Up: Lifecycle of a Battery". It features a photograph of people working on a cobalt mining site in a dry, rocky landscape. Below the photo is a map of the world showing the global supply chain for cobalt. A blue line traces the path from a mine in the Democratic Republic of Congo (labeled "Cobalt is processed by CDM") through various countries to several Chinese cathode manufacturers: Pulead Technology Industry Co., Ltd., Tianjin Bambo Science and Technology Co., Ltd., L&F Material Co., Ltd., and Toda Hunan Shanshan New Material Co., Ltd. A text box on the map states: "Huayou then sells the cobalt to cathode manufacturers. Some of the largest cathode producing companies include Toda Hunan Shanshan, Pulead Technology Industry, Tianjin Bambo Science and Technology, and L&F Material."

Holism

<http://storymaps.esri.com/stories/2017/batteries/index.html>

Considering all we just covered.....

How to apply **holism** to mapping, beyond just Critical Cartography?

We will utilize two approaches

- 1. Tradition-based GIS**

- 2. Design Justice**

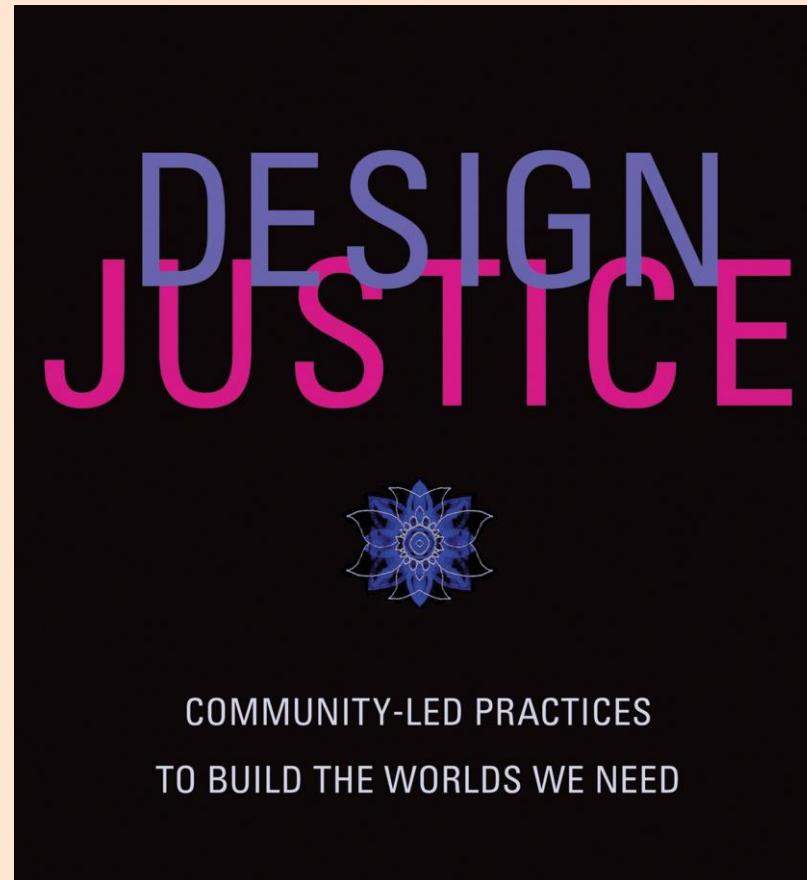
Focus on Tradition-based GIS

Tradition	Key Ideas	Example Publications
Queer(ing) Cartographies, GIS	<ul style="list-style-type: none">• Recognize queer labor and lives present in production of knowledge/maps• Interrogate political, economic, and social relations present in software, algorithms, code used to produce maps	Brown & Knopp (2008); Giesecking (2018)
Marxist Cartography	<ul style="list-style-type: none">• Visualize and map the contours of capital and state power• Interrogate how mapping serves interests of the state	Lacoste (1973); Toscano & Kindle (2015)
Indigenous Mapping	<ul style="list-style-type: none">• Make claims upon ancestral lands to secure tenure and other rights• Simultaneously, potentially make said lands visible for looting and destruction	Chapin et al. (2005); Hunt (2013); see Figure 3

Practicing GIS that is rooted in empowering tradition and disempowering the institutions.

<https://gistbok.ucgis.org/bok-topics/cartography-and-power>

Design Justice



Practicing design that is centered on community-based justice.

<https://gistbok.ucgis.org/bok-topics/cartography-and-power>

In summary

Trying the same tactic of focusing on technology probably isn't going to solve our social problems because well...

These social problems are getting worse.

**My ethics on technology and society:
Iterating towards holistic solutions together.**

Thinking Cap for the week

**Consider what are your ethical views when
it comes to society and technology?
How does it empower civil society?**

Assignments

Due July 7/10:

1. Group Assignment #2 (end of day)
2. Pre-lab (optional)

Due July 7/15:

1. Thinking Cap #3
2. Weekly Reading

Memos!

Group Time



**Visiting Voice
Lecture
Group Time**

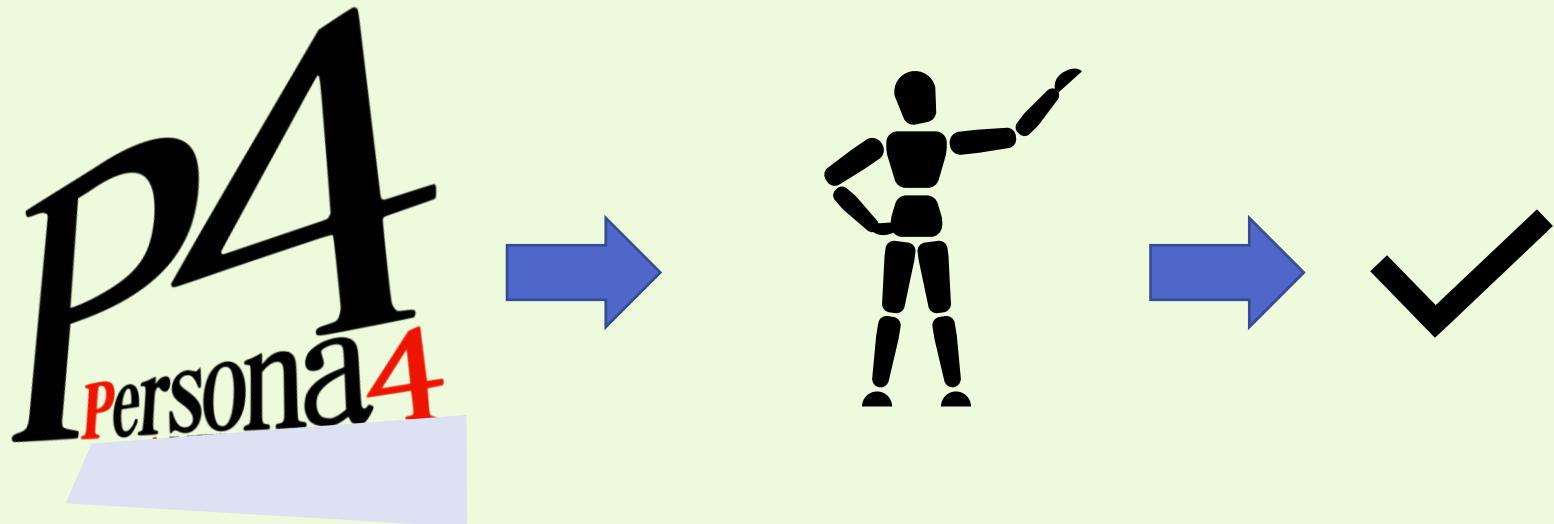
Group Assignment #2

Memo

- Background on the social issue/campaign
- Goals
- Community/organization description
- At least 2 user stories
- 3 Ideas of questions to be included on the survey
- Future plans

2 pages MAX!!!!

Memo: Revisiting User Stories



Memo: Revisiting User Stories

Broad goals your users should be able to use your website for.

Memo: Revisiting User Stories

Home Mapping Hate Crimes in the US #OneHateCrimeIsTooMany SEE COVID HATE INCIDENTS REPORT INCIDENT ABOUT

Map showing the distribution of hate crimes across the US by state. The map uses a color-coded legend to represent the number of cases per state:

Cases per state	Range
0-22	Lightest Purple
22-28	Very Light Purple
28-45	Medium-Light Purple
45-75	Medium Purple
75-227	Darkest Purple

Bar chart showing the Number of Hate Crimes by category:

Category	Number of Hate Crimes
Race/Ethnicity	~680
Religion	~480
Gender/Sexuality	~260
Miscellaneous	~260

View only incidents that have been published

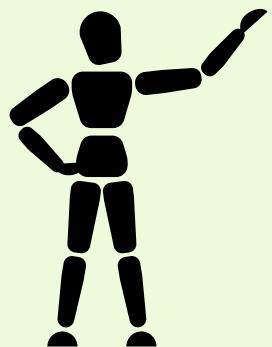
This map is maintained by the UCLA American Indian Studies Center under the Institute of American Cultures. To contact us, email aisc@ucla.edu.

Memo: Revisiting User Stories

As a person who faced
a hate crime



I want to **report** my
incident without fear
from authorities



So that people can **hear**
my story and take
action to prevent more
from occurring

