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Ethical Software and Developing for Civil Society

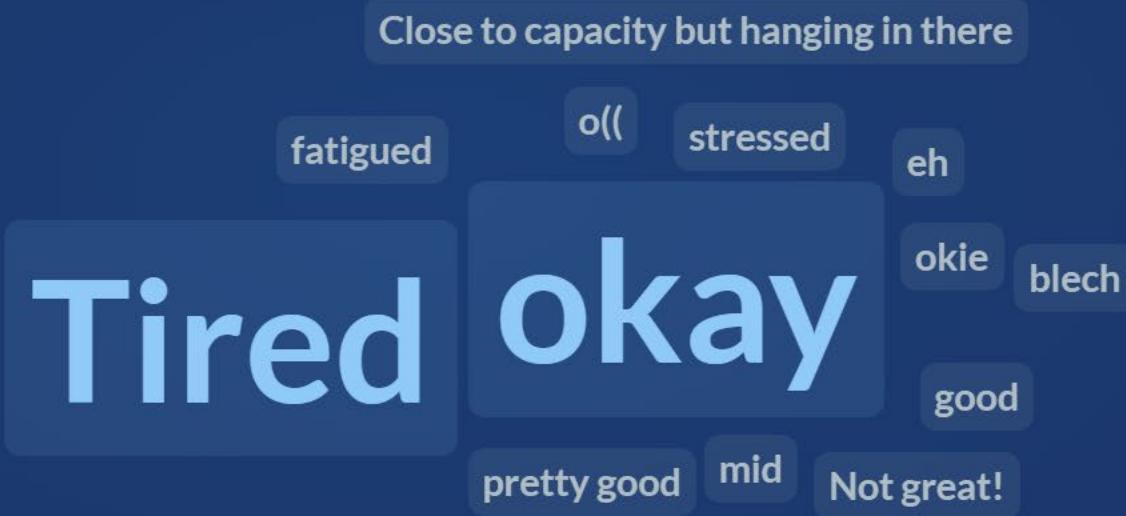
Albert S. Kochaphum

Week 4 | April 18th, 2022



Week 4! How are you feeling today?

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Stressed about midterms next week?

Can't think about next week, barely getting through one day at a time

53%

Yah

24%

Nah

12%

Maybe

12%

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Stressed about midterms next week?

Can't think about next week, barely getting through one day at a time

53%

Yah

24%

Nah

12%

Maybe

12%

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How was lab 3's pacing?

Just right



Too fast



Too slow

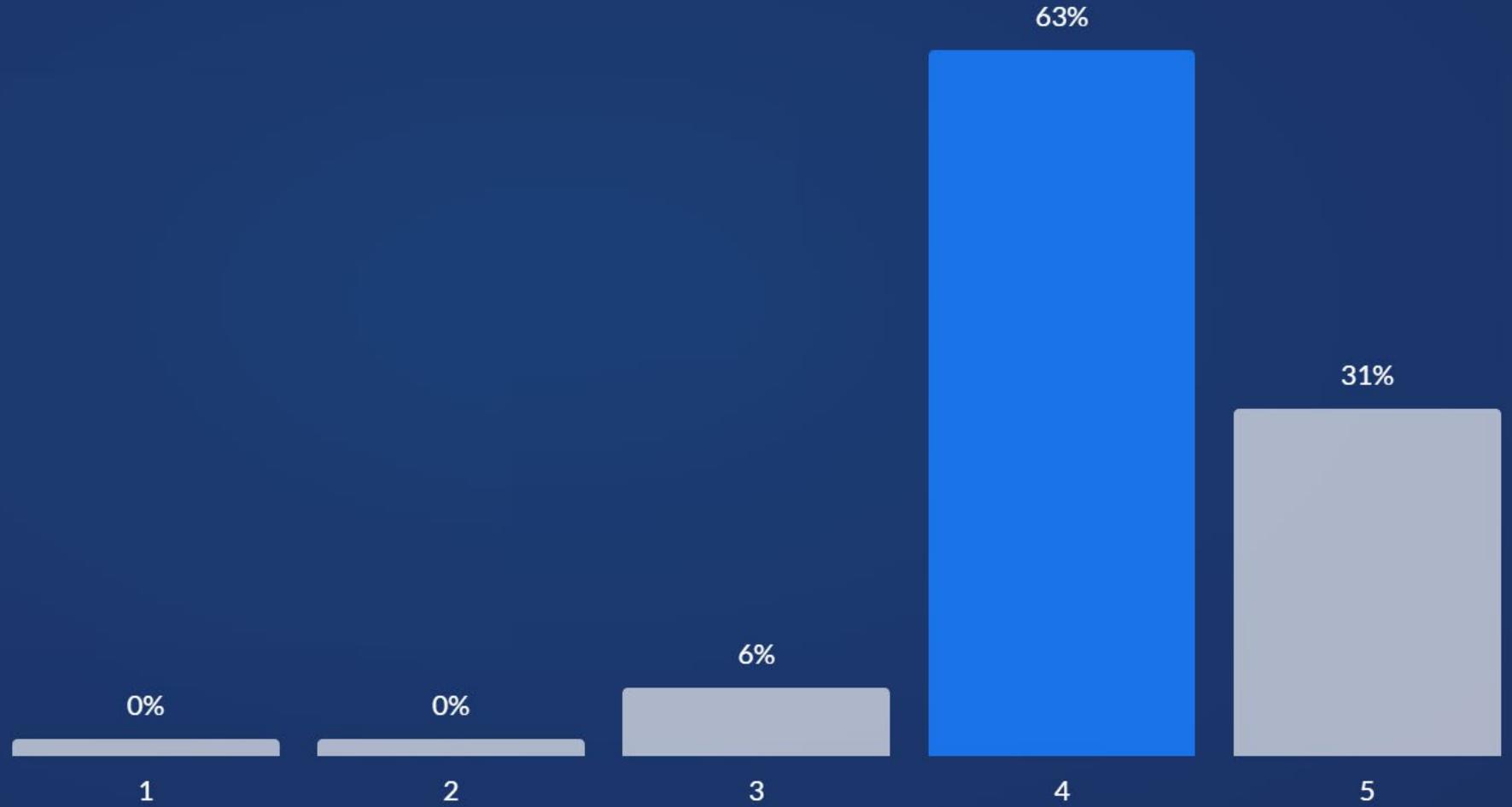


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How would you rate this week's readings?

Score: 4.3



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Today's Agenda

Logistics

Lecture

Group Projects



2:15

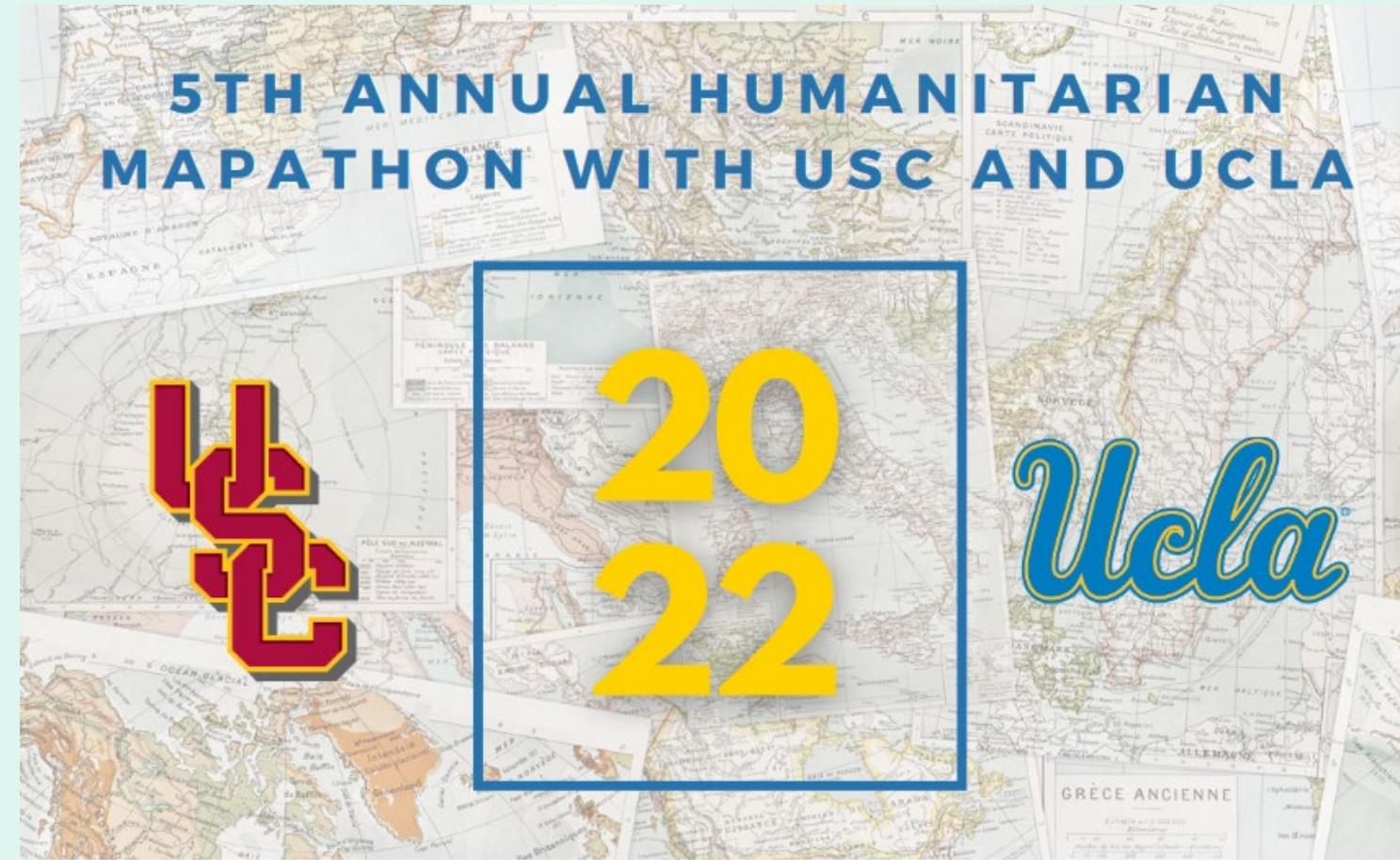
3:05

Logistics

- Slido → Counts for class participation!
- Emailing individual assignment feedback/grades this week
- Group Assignment #3 “Survey” due Wednesday 4/27
 - Also contains the final questionnaire!
- No lab assignment / no thinking cap this week
- Prelab reading on survey design that should take 10 - 15 minutes

Extra Credit Opportunities

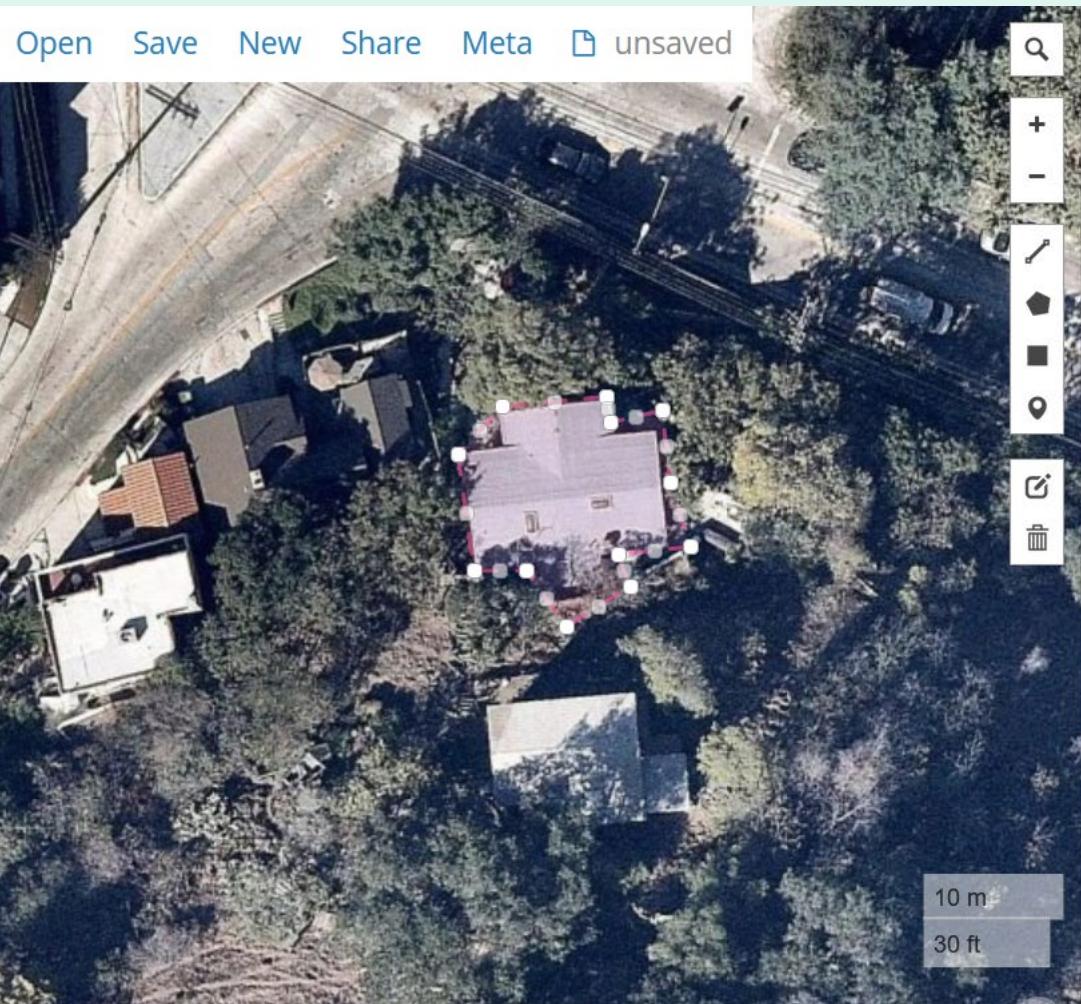
- **New extra credit opportunities this week**
 - 1. UCLA vs USC LA Mapathon Wednesday and Thursday**
 - 2. Optional Thinking cap worth 50%**
- **All extra credit from this week and last is due Monday 4/25**



"REGISTER AT [MAPATHON.LA](https://mapathon.la)"

Kick Off: Wednesday, April 20, 2022 @ 10:00 AM PT
Through Thursday, April 21, 2022

Open Save New Share Meta  unsaved



</> JSON

Table

Help

anon | login

```
1 {
2   "type": "FeatureCollection",
3   "features": [
4     {
5       "type": "Feature",
6       "properties": {},
7       "geometry": {
8         "type": "Point",
9         "coordinates": [
10           -118.3560562133789,
11           34.105550773988746
12         ]
13       }
14     },
15     {
16       "type": "Feature",
17       "properties": {},
18       "geometry": {
19         "type": "Polygon",
20         "coordinates": [
21           [
22             [
23               [
24                 [
25                   [
26                     [
27                     [
28                     [
29                     [
30                     [
31                     [
32                     [
33                     [
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54                     [
55                     [
56                     [
57                     [
58                     [
59                     [
59                   ]
60                 ]
61               ]
62             ]
63           ]
64         ]
65       ]
66     ]
67   ]
68 }
```

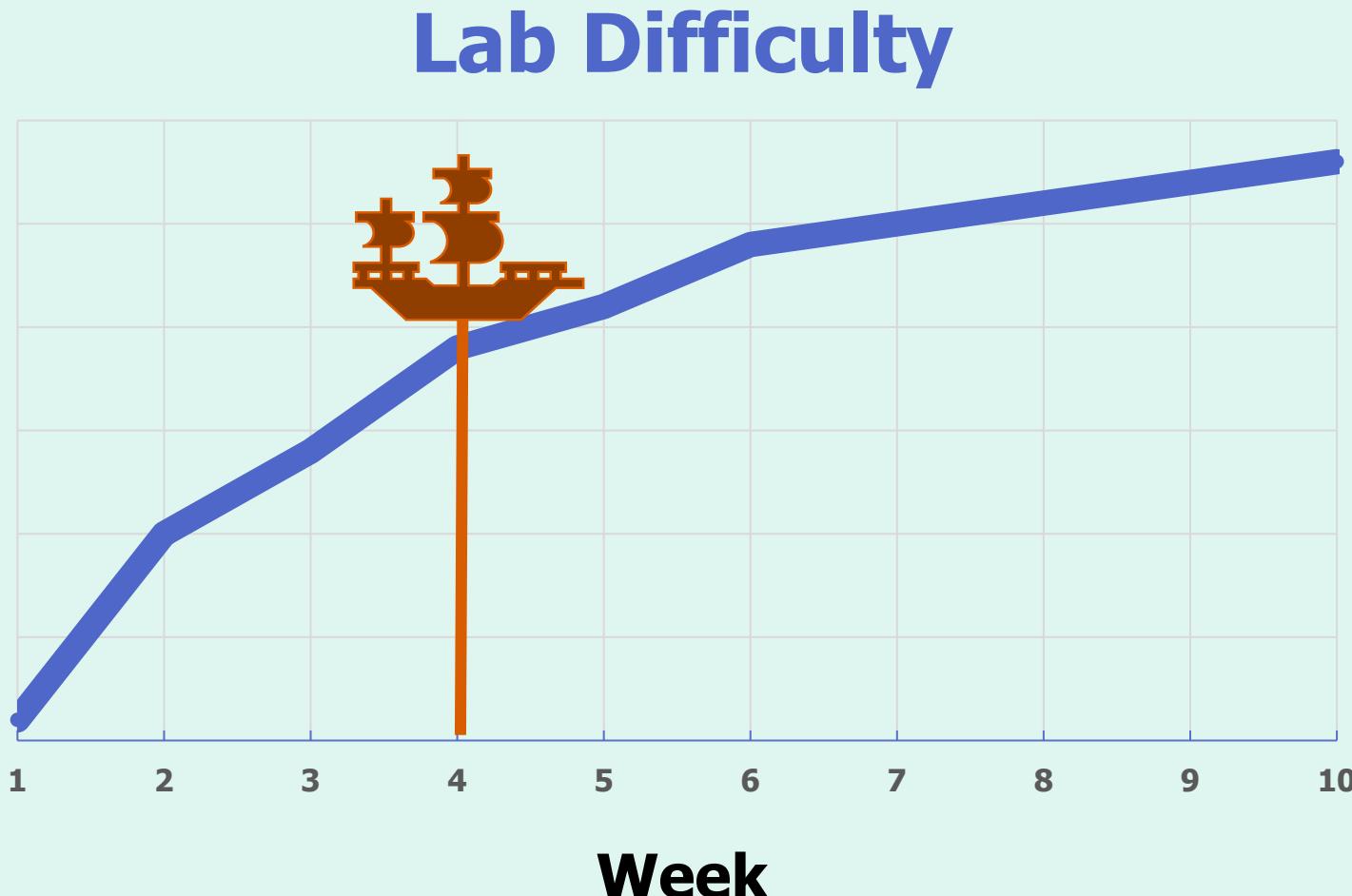
☆LA Mapathon Extra Thinking Cap☆:

What do you think are drawbacks to humanitarian mapathon events (if any)? Could you leverage them for a cause you are interested in?

Wednesday's 4/20 Lab

- Will be half **lecture!!!!**
- **Survey lecture will be embedded in the first half**
- **Group Assignment #3 “Survey” due Wednesday 4/27**

Lab difficulty will start to plateau



**Now is the time reach out if you've been
stuck or unclear about things**



Help in general



Willing to work with you, but you must reach out

Questions?

Week 3 - ALwards

Earth day Approved!

U.S. NationAL - bert Parks

ALwards



Alwards for Week 3

KATMAI attention with your thinking caps

Daiki Saito

Both closed source and open source tools have advantages and disadvantages as well... we are told that learning to code is like learning another language and thus requires practice... we keep our assignments "public" so that we can learn from each other by directly looking at other students' code. closed source tools prevent others from accessing the source code, closed source software are being discreet... which raises the concern of ethics and transparency.

<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2577208>

Steven Tran

Closed source tools are harmful for civil society because there is not a lot of entities that are able to hold organizations that use software for harmful reasons. The software is housed privately and these organizations are able to decide how and when they want to use it.



<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2577208>

Alwards for Week 3

Grand TetON point!



Nishaanth Krishnan

Closed source tools are harmful to society in the sense that they limit access to the technology to only those who made that tool. On the other hand, open source projects are there for the public to see them and therefore improve on them for the needs of their community. After looking the readings and Mariah Tso's talk, I was reminded how I read about algorithmic bias with machine learning in a previous class.

<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2582571>

Ivy Tang

... As we learned in our guest presentation last week, open source tools allow individuals such as Machiko, who may not necessarily have a formal education in computer science, to be able to take advantage of an accessible, free resource to learn from and apply to their own projects... ethical source... placing these limitations would completely go against the point of open-source code, whose whole purpose is to be accessible to anyone and everyone

<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2582774>

Alwards for Week 3

SequoiaAMAZING Thinking Cap

Jenny Lu

... closed source ... is harmful for civil society as not everyone has access to the tools and information used in certain products, and so there is no way to expand upon certain creations... the information is puppyguarded through either a paywall or a certain level of required clearance... with the foundation that our society is built on (capitalism and colonialism), there is really no such thing as "closed-source" when it comes to large corporations and ruling entities, and so the only thing that closed-source tools really do is limit the accessibility for regular people.



Alwards for Week 3

Kenai Fjowards your great thinking caps as a model?

Keri Chen

As for the implications on civil society, we chose open source tools because transparency is essential... As Mariah Tso mentioned... mapping ... creates reality...using open source tools allows for a fair and collaborative environment...

<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2580246>



Ashley Lu

Open source tools are great in that everyone has the opportunity to contribute to the code and make use of the tools. There are also a lot of strong open source communities ... to help people learn. Yet ... a large ethical component ... is sometimes forgotten when dealing with open source.

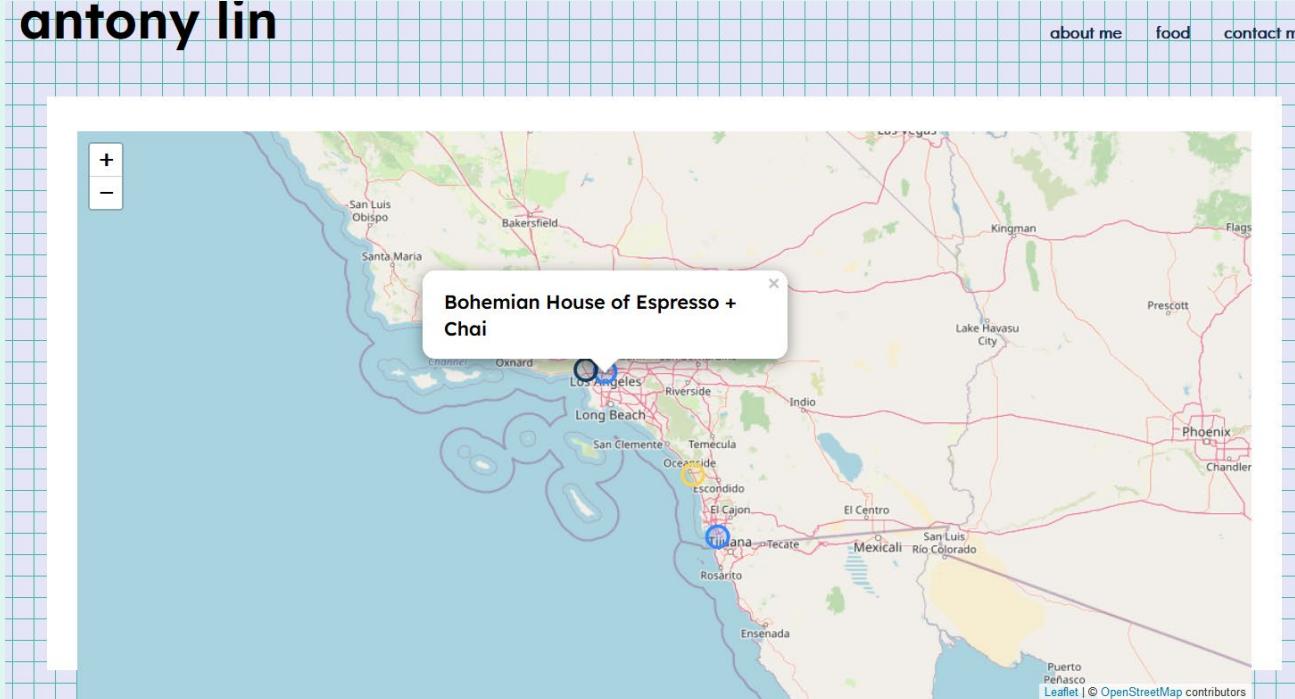
<https://github.com/albertkun/22S-ASIAAM-191A/discussions/14#discussioncomment-2582649>

Alwards for Week 3

Hey! RedWoodn't you know how to incorporate a GeoJSON before lab 3?

Anthony Lin

antonylin



about me food contact me



<https://antonyblin.github.io/aas191a-assignments/week2/food.html>

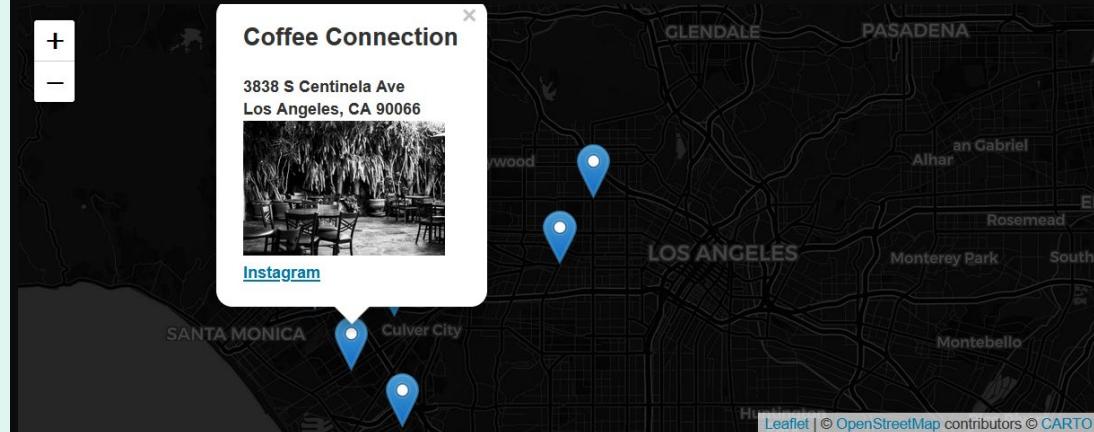
Alwards for Week 3

Great BAS-map-Incorporation*

Ngoc Tran

Study Spots

My recommendations for cafes around LA with decent parking and moderately overpriced coffee to study at.

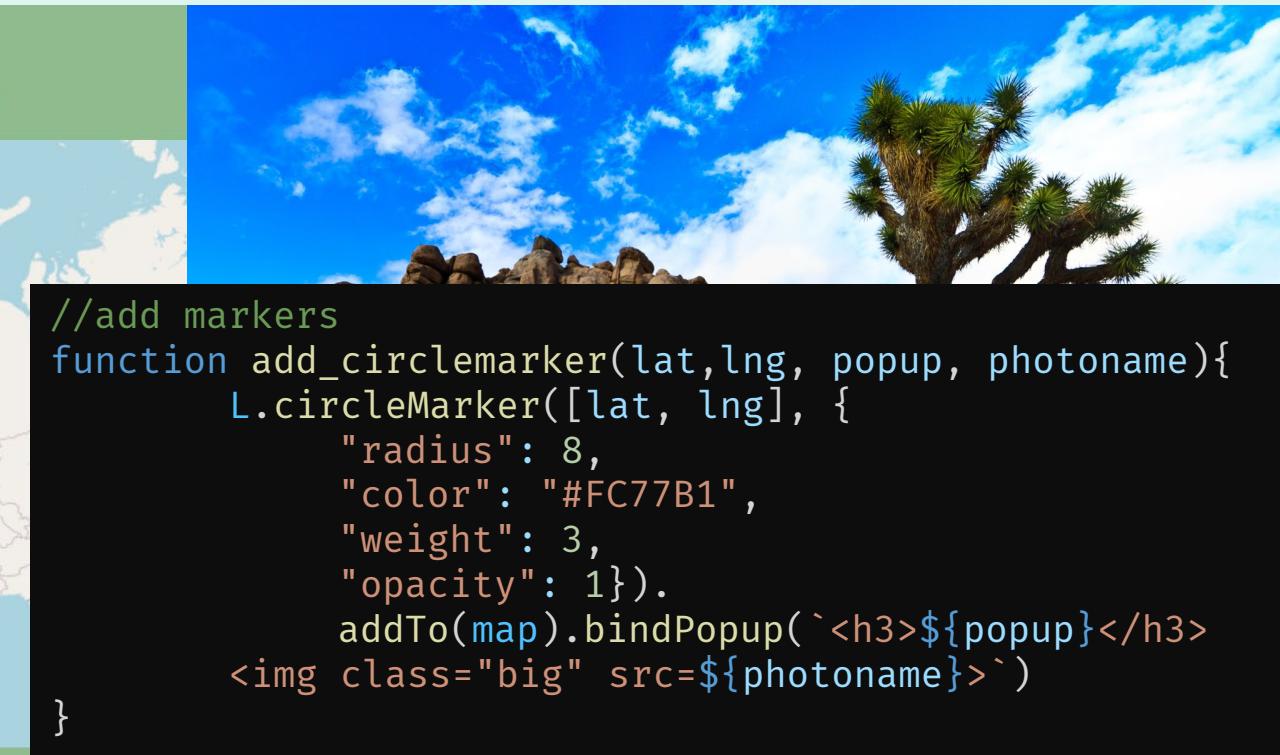


<https://ntran27.github.io/22s-asiaam-191a-labs/week2/index.html>

Alwards for Week 3

Joshua Treating Leaflet options and objects like a pro

Kristen Fu



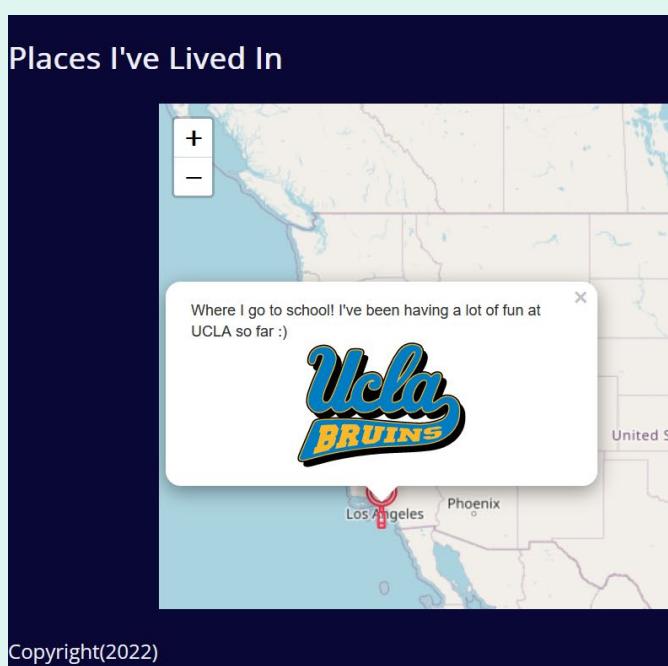
```
//add markers
function add_circlemarker(lat,lng, popup, photoname){
  L.circleMarker([lat, lng], {
    "radius": 8,
    "color": "#FC77B1",
    "weight": 3,
    "opacity": 1}).
    addTo(map).bindPopup(`<h3>${popup}</h3>
<img class="big" src=${photoname}>`)
```

<https://kris10fu.github.io/22s-asiaam-191a-labs/week2/map.html>

Alwards for Week 3

Nice Custom Map ZlcON

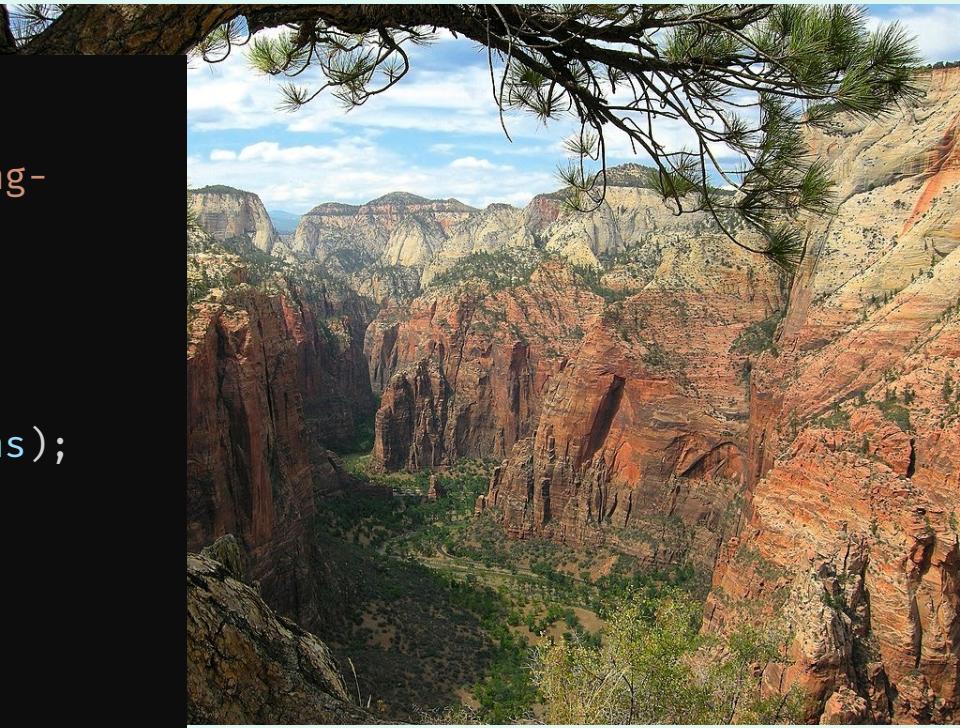
Ashley Lu



```
// Icon options
var iconOptions = {
    iconUrl: 'images/magnifying-
glass.png',
    iconSize: [45, 45]
}

// Creating a custom icon
var customIcon = L.icon(iconOptions);

// Options for the marker
var markerOptions = {
    clickable: true,
    icon: customIcon
}
```



<https://ashley-lu.github.io/s22-asiaam-191a-assignments/week2lab/index.html>

Alwards for Week 3

Nice staying Grand CanyON TOP of map design and code

Lindsey Mardona

places i've been

i've had the wonderful privilege of being able to travel to a handful of places in my life.
because of this, i've gained a strong appreciation for traveling and being able to experience an entirely different culture firsthand.
this is a map of places i've visited. i hope that i'll have the opportunity to visit more places in the future.

leaflet | imagery provided by services from the global imagery browse services (gibs), operated by the nasa/gsfc/earth science data and information system (esdis) with funding provided by nasa/hq; justice map, map data: © openstreetmap contributors | map style: © wavmarkedtrails.org (cc-bv-sa)



<https://lindseymardona.github.io/22s-asiaam-191a-labs/week2/index.html>

Alwards for Week 3

The YosemiTEACHER's Site of the Week

Angeline Eow

▶ Places I have traveled ▶

Las Vegas
Fourth station of my solo trip

500 km | 300 mi

function add_circleMarker(lat, lng, placename, popup, photoname){
L.circleMarker([lat, lng], {"radius": 4, "color": "#91a0e6",
"weight": 3, "opacity": 1}).addTo(map).bindPopup(`

>\${placename}</h2> <h3>\${popup}</h3>`) }

A screenshot of a website featuring a map of North America. A red box highlights a callout bubble for 'Las Vegas' which contains a photo of the Las Vegas Strip. Another red box highlights the scale bar at the bottom left of the map. To the right of the map is a large, scenic photograph of El Capitan in Yosemite National Park.

https://angelineeow.github.io/22s-asiaam-191a-labs/week2/more_about_me.html

Theme of the week

Focusing on meaningful community engagement



Open Source and Web Mapping



Revisited

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

The Three Opens

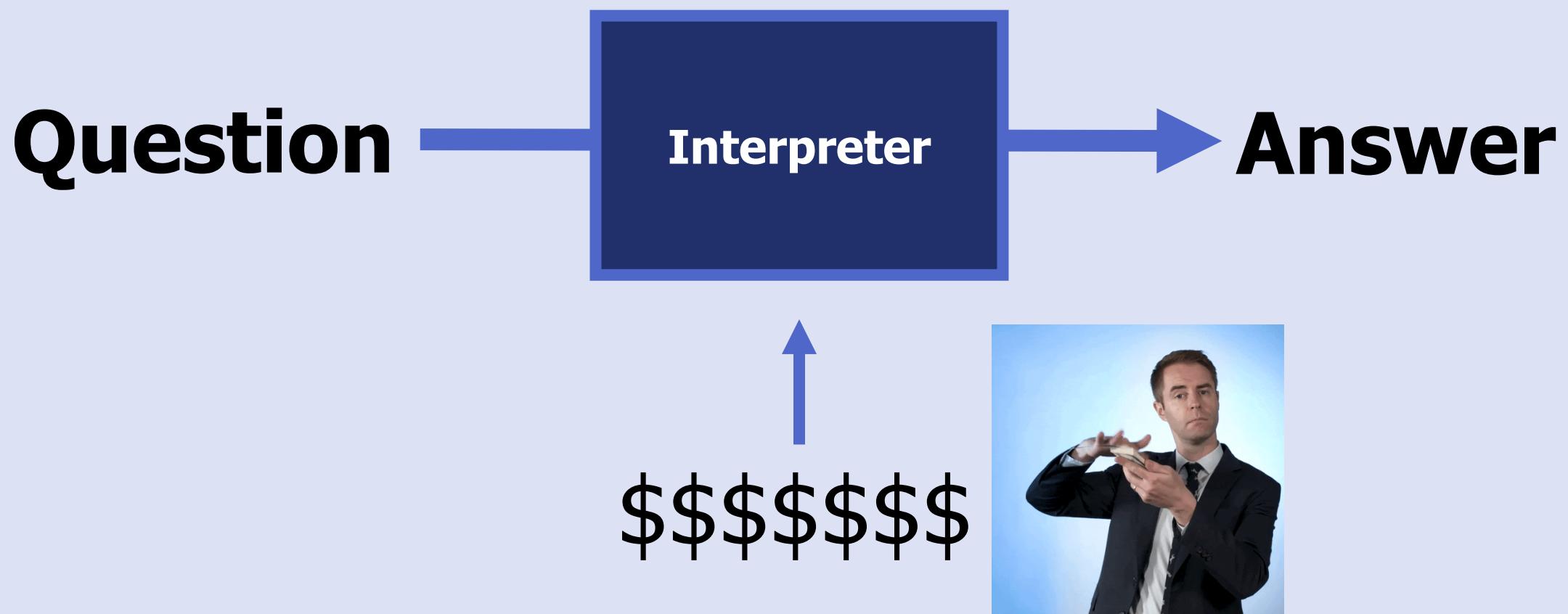
- Open Source
- Open Standards
- Open Data

Leads to...

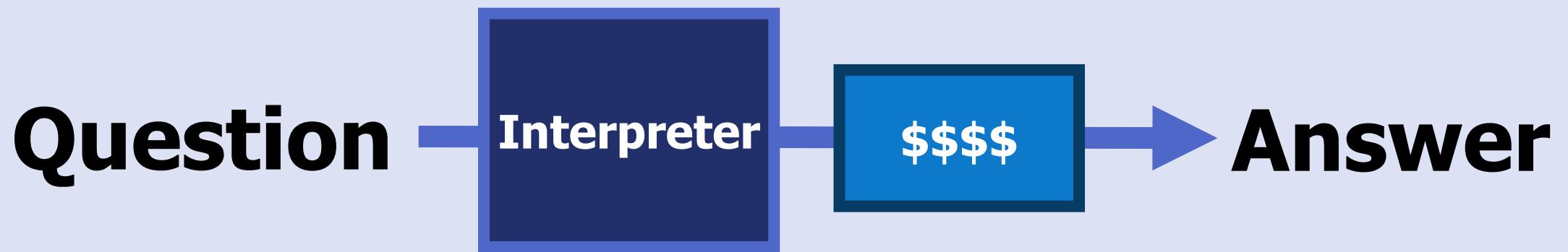
A collaborative open-community

Is this enough?

What is programming?



What is programming?



Importance of an open internet...



What makes us programmers?



HANG IN THERE!

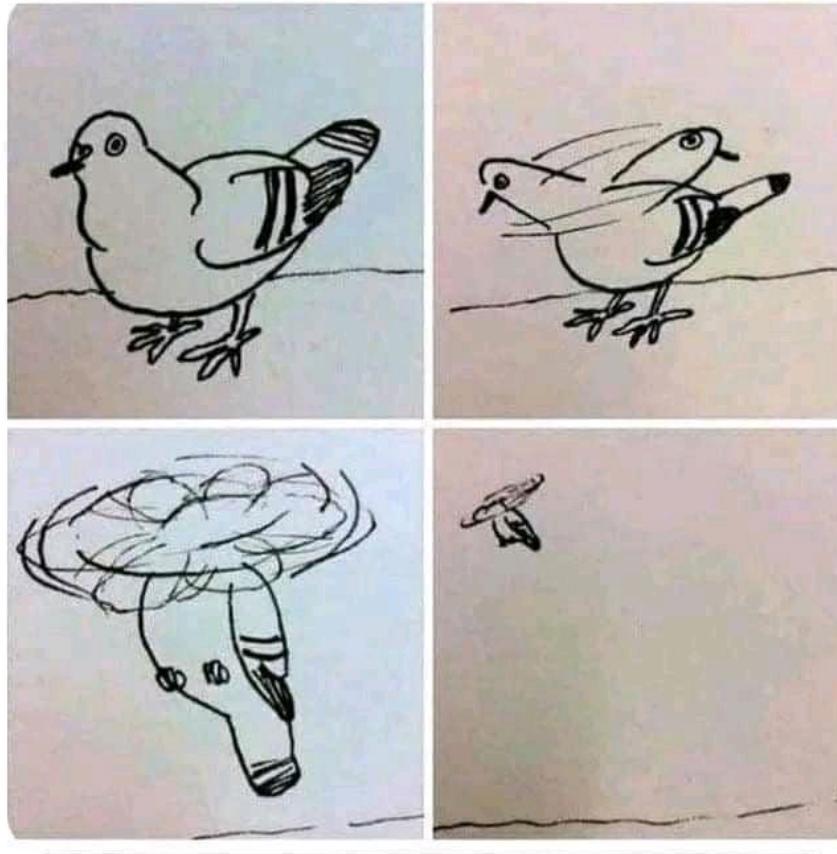
When we see code, we don't give up!



HANG IN THERE!

When we see code, we GOOGLE it up!

When your program
is a complete mess,
but it does its job



So why JavaScript and Leaflet instead of...

Google Maps API



SQUARESPACE



**It's like learning to cook with only a
microwave...**

For convenience, you ignore

- Ingredients
- Healthiness
- Dependency on the tool

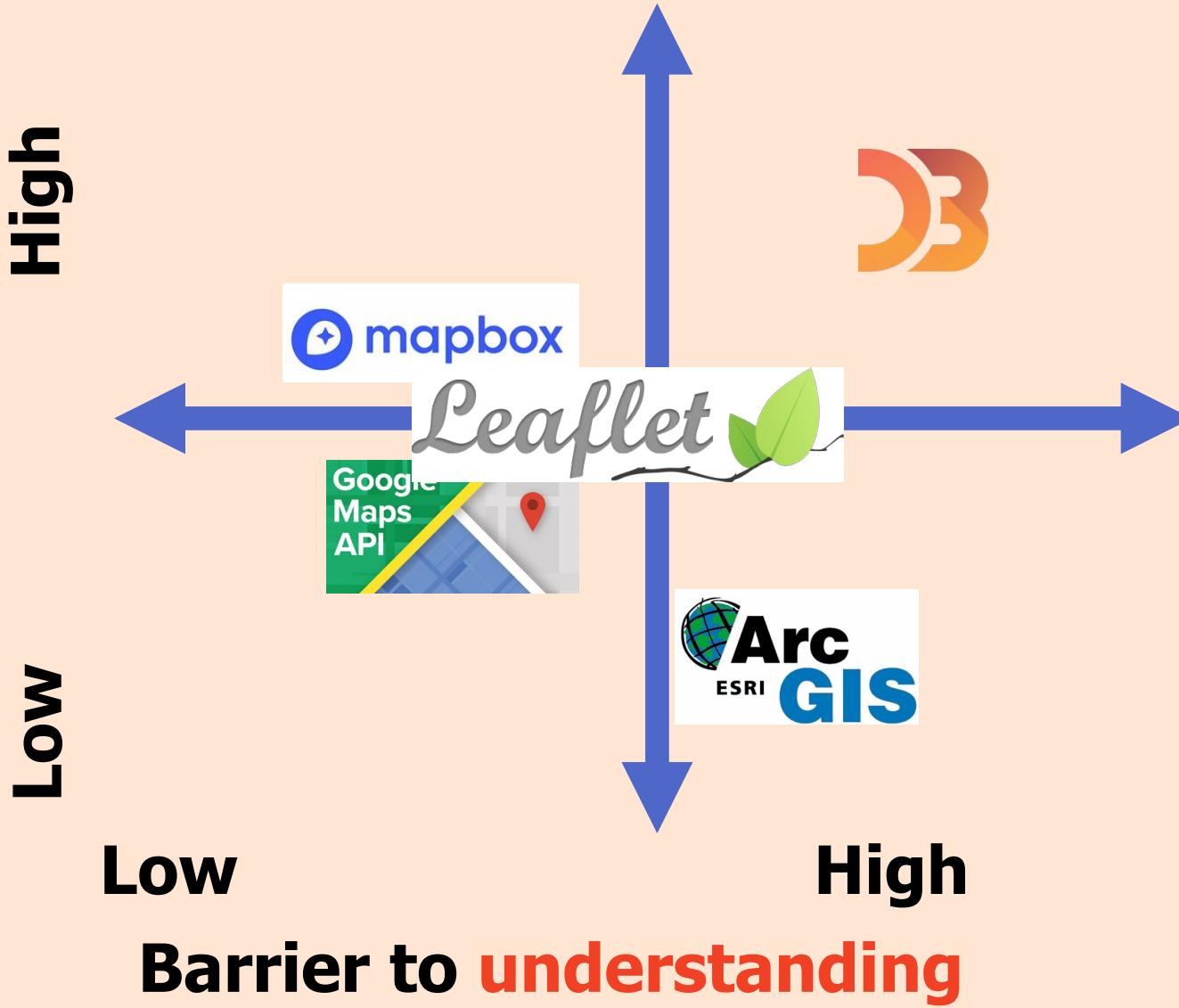
But most importantly...

- Why are cooking in the first place!!

The **cost** of open source

GIS Technologies

Barrier to creating outputs

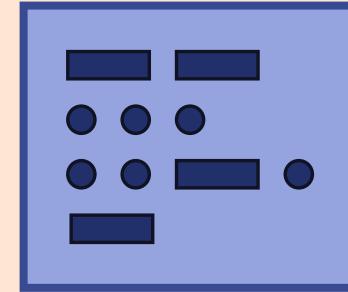


Barrier to understanding

Open-source vs Closed-Source

```
<html>
  <body>
    hi
  </body>
</html>
```

VS

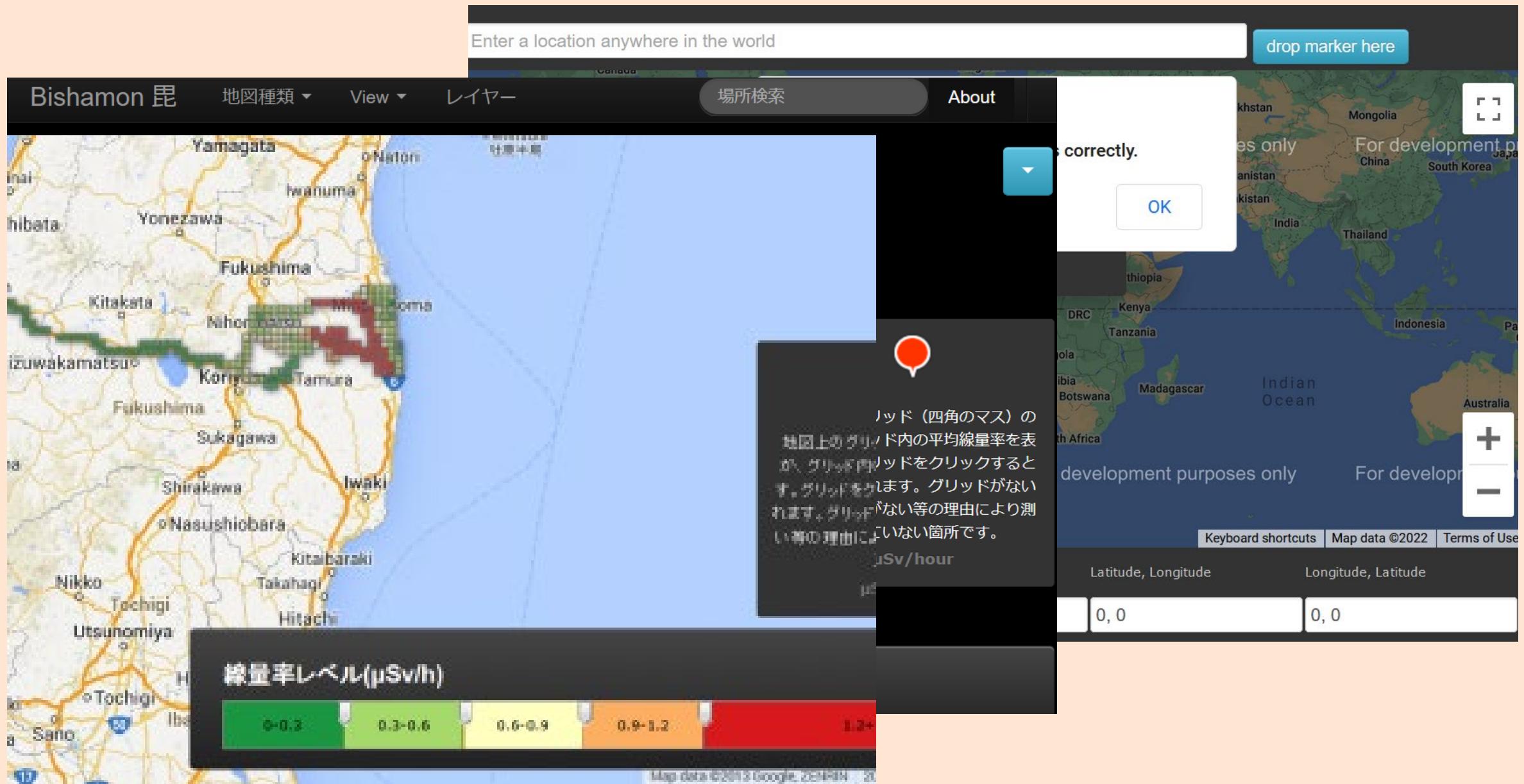


You can see the code

You can never see the code

Think about why is this important?

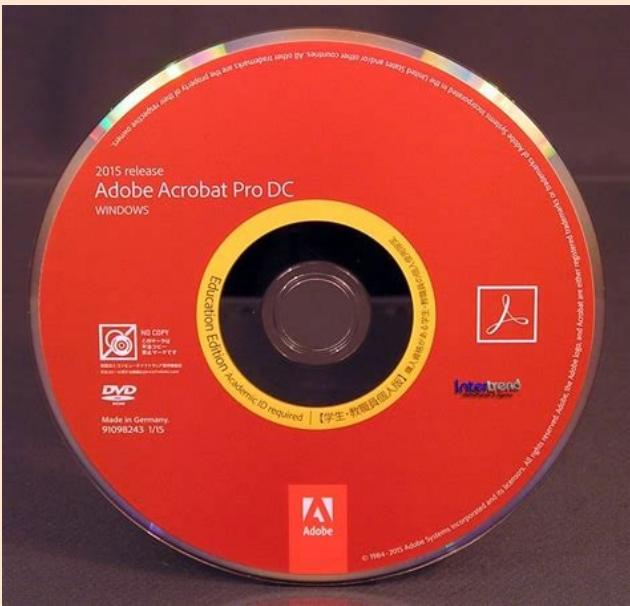
Google API Deprecation



Quick History on software...



Quick History on software...



 EDB ENTERPRISE DB	Bruce Momjian		Joe Conway		Alvaro Herrera
 EDB ENTERPRISE DB	Thomas Munro		Tom Lane		Andrew Dunstan
 EDB ENTERPRISE DB	Robert Haas		Stephen Frost		Peter Eisentraut
 EDB ENTERPRISE DB	Amit Kapila		Peter Geoghegan		Tomas Vondra
 EDB ENTERPRISE DB	Andres Freund		Teodor Sigaev		Heikki Linnakangas
	Kevin Grittner		Alexander Korotkov		Greg Stark
	Michael Paquier		Jeff Davis		Magnus Hagander
	Fujii Masao		Michael Meskes		Tatsuo Ishii
	Etsuro Fujita		Noah Misch		Dean Rasheed

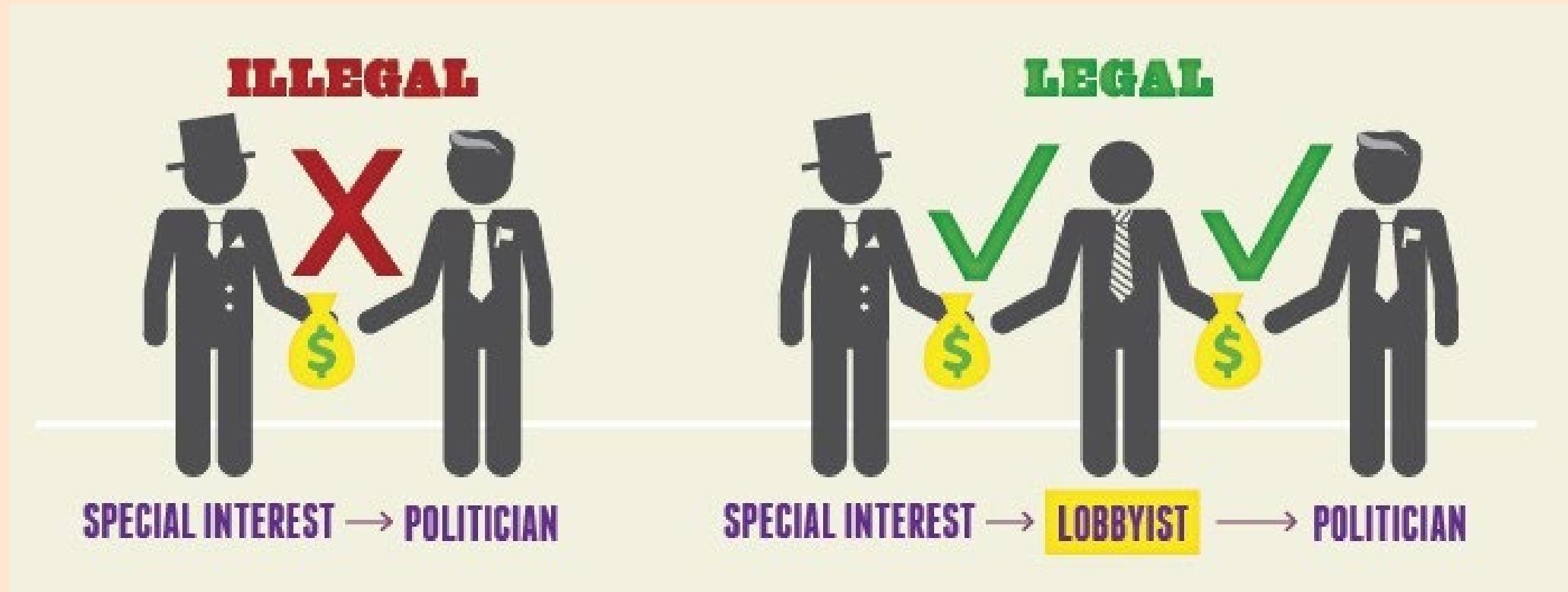
 EDB ENTERPRISE DB	Bruce Momjian		Joe Conway		Alvaro Herrera
 EDB ENTERPRISE DB	Thomas Munro		Tom Lane		Andrew Dunstan
 EDB ENTERPRISE DB	Robert Haas		Stephen Frost		Peter Eisentraut
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	Michael Paquier		Jeff Davis		Magnus Hagander
	Fujii Masao		Michael Meskes		Tatsuo Ishii
	Etsuro Fujita		Noah Misch		Dean Rasheed

Is this fair?

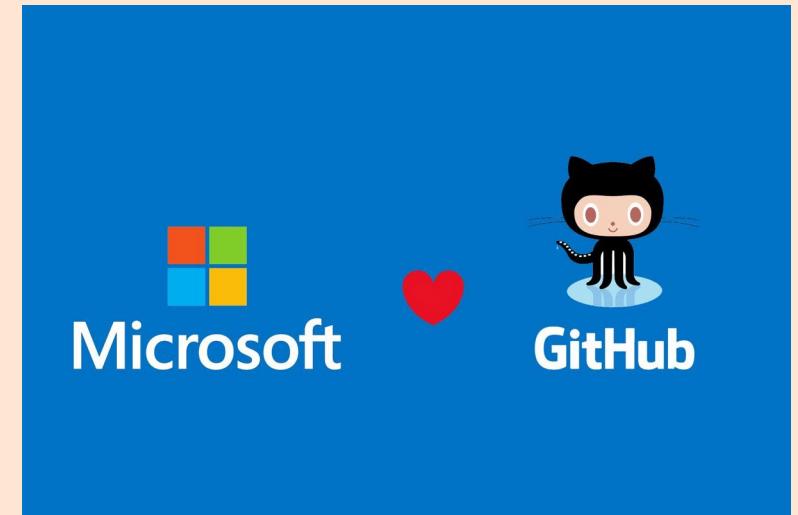
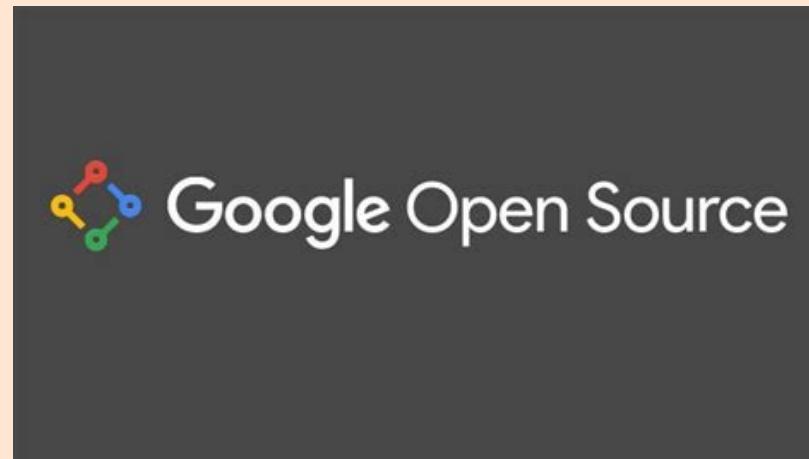
Tragedy of the commons



Have corporations infiltrated open source?

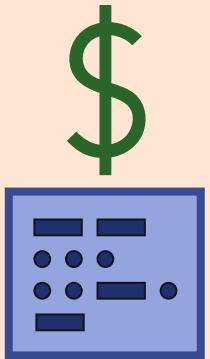


Have corporations infiltrated open source?



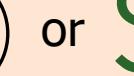
Summary

Proprietary Software

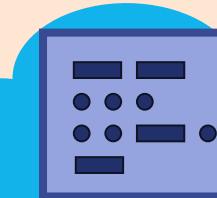


Software as a Service

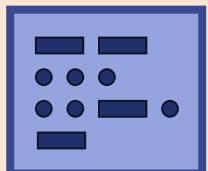
To a point



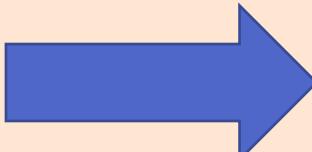
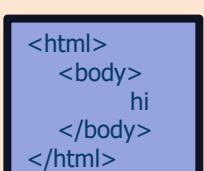
Takes your data



Free software



Open Source Software



Open Software as a Service



Open Source

No costs and long-term
application viability

Vs.

Closed Source

Short-term costs and
application viability

**Are you designing for a long-term application or
to quickly finish an application?**

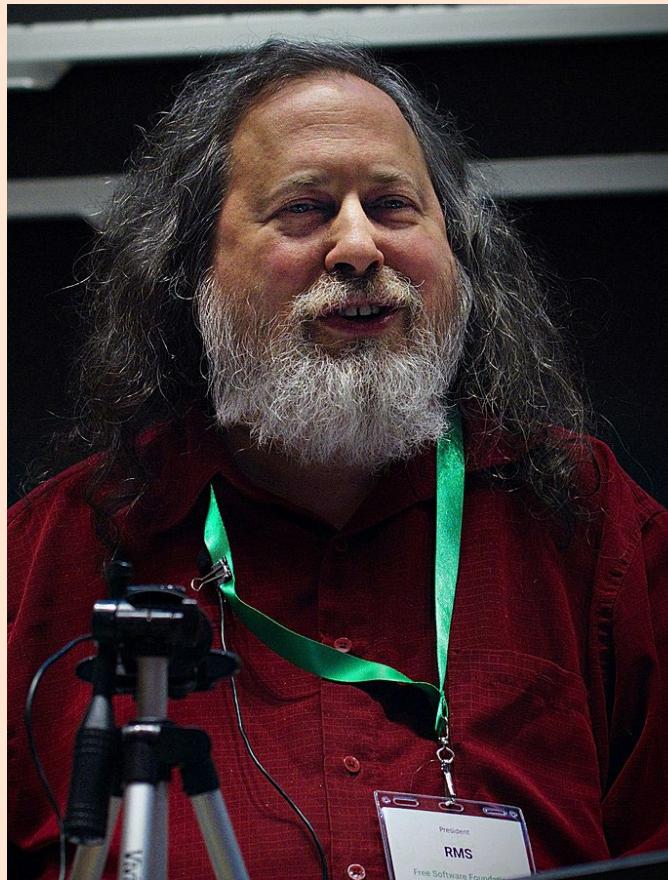
Issues with open source...

Eric S. Raymond



Founder of Open Source Initiative

Richard Stallman



Founder of Free and Open Source Foundation

Issues with open source...

Eric S. Raymond

[Co-founder of OSI Banned From Mailing Lists](#)

Written by Sue Gee

Wednesday, 11 March 2020

Eric S Raymond, one of the founders of the Open Source Initiative and its president for the first six years, has been banned from two OSI mailing lists following messages whose tone violated the code of conduct.

<https://www.i-programmer.info/news/136-open-source/13535-co-founder-of-osi-banned-from-.html>

Richard Stallman

[Return of Stallman to FSF sparks outrage among open-source and free software leaders](#)

Steven J. Vaughan-Nichols · 3/24/2021



<https://www.msn.com/en-us/news/technology/return-of-stallman-to-fsf-sparks-outrage-among-open-source-and-free-software-leaders/ar-BB1eVPC8>

http://lists.opensource.org/pipermail/license-discuss_lists.opensource.org/2020-February/021328.html

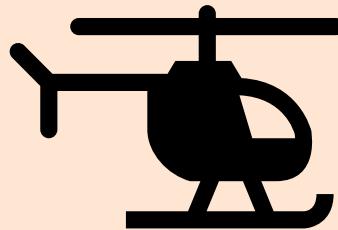
Issues with open source...

It is detached from ethics and treats technology as “neutral”

“Guns aren’t bad, it’s up to the user.”



So...Is open source enough?

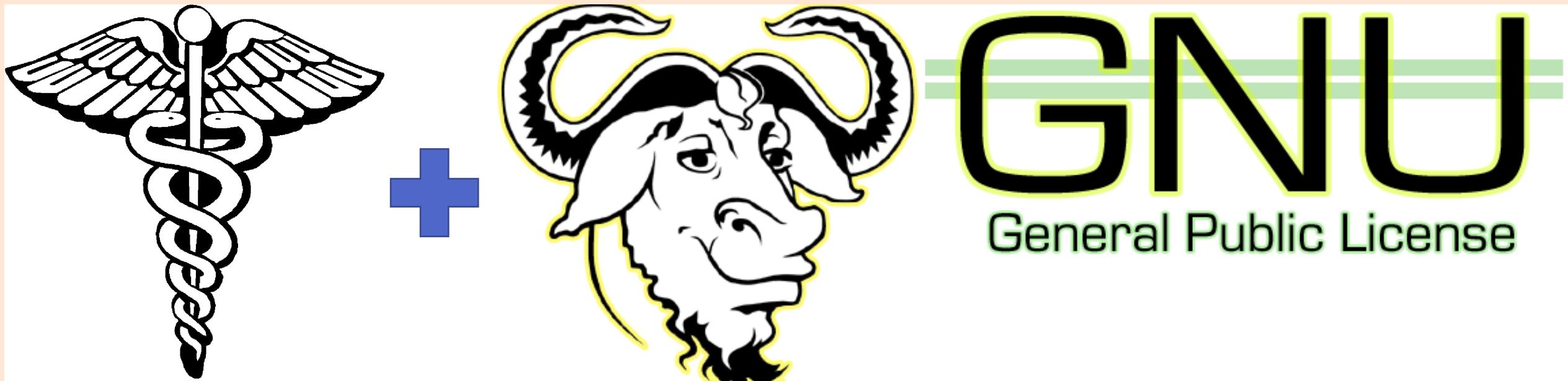


Solution: Ethical Source Licensing?

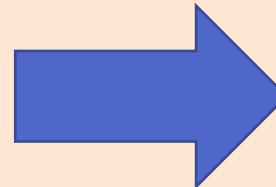


Established in 2019
<https://ethicalsource.dev/>

Ethical Source License



Example: Geocoding



Name: Los Angeles, CA,USA
Country: United States
Layer: Locality
Lon.: -118.25703
Lat.: 34.05513

Leaflet vs. Google Maps



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

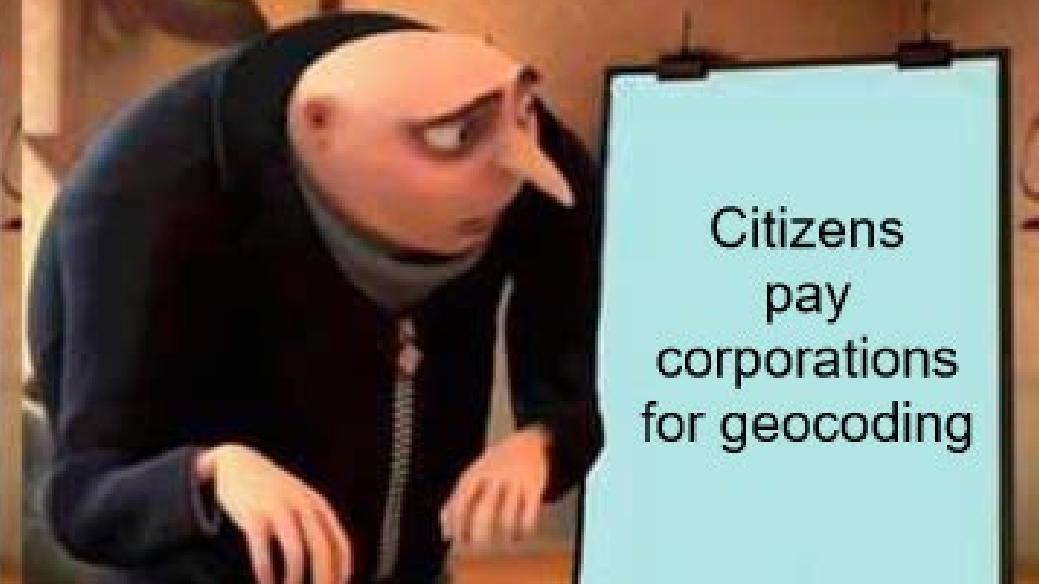
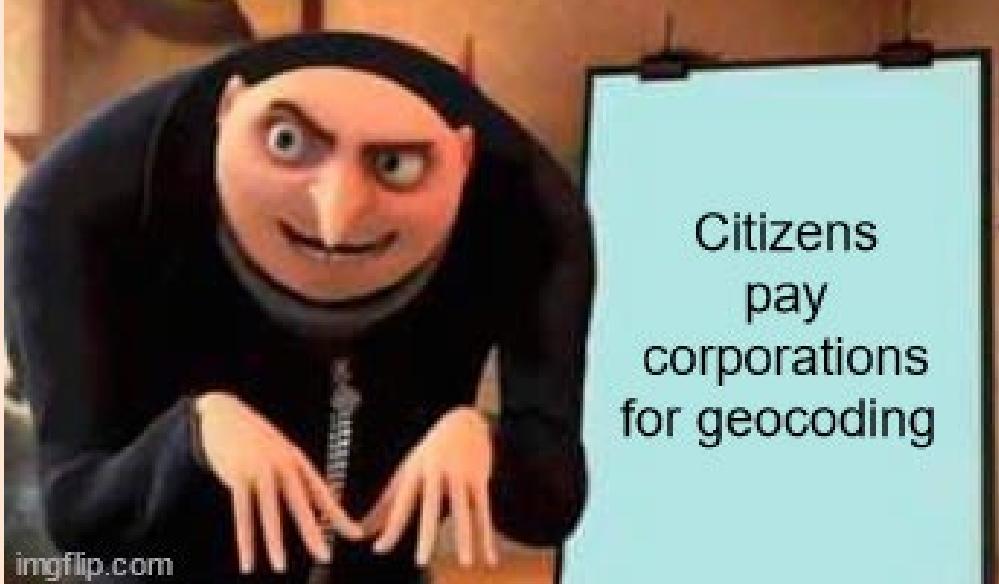
Leaflet Control Geocoder npm v2.2.0 Leaflet 1.0.0 ✓

A simple geocoder for Leaflet that by default uses OSM/Nominatim.

The plugin supports many different data providers:

- LatLng to parse basic latitude/longitude strings
- [OSM/Nominatim](#)
- [Bing Locations API](#)
- [Google Geocoding API](#)
- [Mapbox Geocoding](#)
- [MapQuest Geocoding API](#)
- [What3Words](#)
- [Photon](#)
- [Pelias, geocode.earth](#) (formerly Mapzen Search), [Openrouteservice](#)
- [HERE Geocoder API \(legacy\)](#)
- [Neutrino API](#)

Google Maps Platform APIs by Platform ▾		
MAPS	ROUTES	PLACES
▼ Static Maps Display maps as images	FREE FOR MOBILE	\$2 PER 1000 REQUESTS
▼ Dynamic Maps Display interactive, customizable maps	FREE FOR MOBILE	\$7 PER 1000 REQUESTS
▼ Local Context Map (Beta) Provide detailed information on nearby places directly on your maps - including user ratings, reviews, photos, pricing, ETA and walking directions	FREE DURING BETA	Requires enabling Dynamic Maps - \$7 CPM
▼ Static Street View Display a non-interactive Google Street View 360 panoramic or thumbnail image		\$7 PER 1000 REQUESTS
▼ Dynamic Street View Display an interactive Google Street View 360 panoramic or thumbnail image		\$14 PER 1000 REQUESTS



Public data is now the commodity



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Print

Save

Accept

Decline

Welcome to iCloud

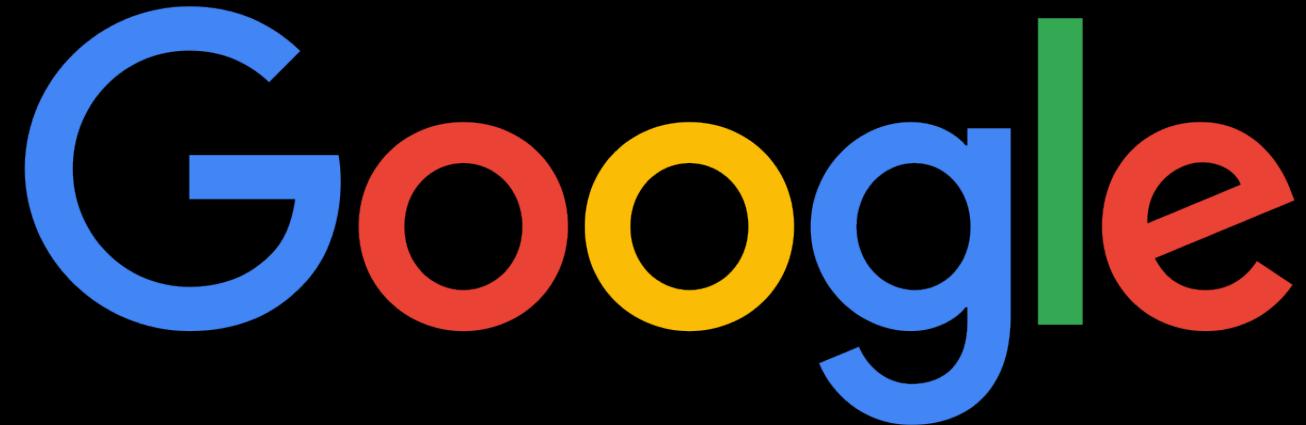
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Apple is the provider of the Service, which permits you to utilize certain Internet services, including storing your personal content (such as contacts, calendars, photos, notes, reminders, documents, app data, and iCloud email) and making it accessible on your compatible devices and computers, and certain location based services, only under the terms and conditions set forth in this Agreement. iCloud is automatically enabled when you are running devices on iOS 9 or later and sign in with your Apple ID during device setup, unless you are upgrading the device and have previously chosen not to enable iCloud. You can disable iCloud in Settings. When iCloud is enabled, your content will be automatically sent to and stored by Apple, so you can later access that content or have content wirelessly pushed to your other iCloud-enabled devices or computers.

I. REQUIREMENTS FOR USE OF THE SERVICE

Your data is now the commodity





“If you’re doing something you
don’t want anyone to know,
maybe you shouldn’t be doing it
in the first place.”
- Eric Schmidt, Google CEO





ORLY?

Google faces \$5 billion lawsuit in U.S. for tracking 'private' internet use

Google “cannot continue to engage in the covert and unauthorized data collection from virtually every American with a computer or phone,” the complaint said.

June 2, 2020, 3:50 PM PDT / Updated June 3, 2020, 5:00 AM PDT

By Reuters

<https://www.nbcnews.com/tech/security/google-sued-u-s-tracking-users-private-internet-browsing-n1222676>

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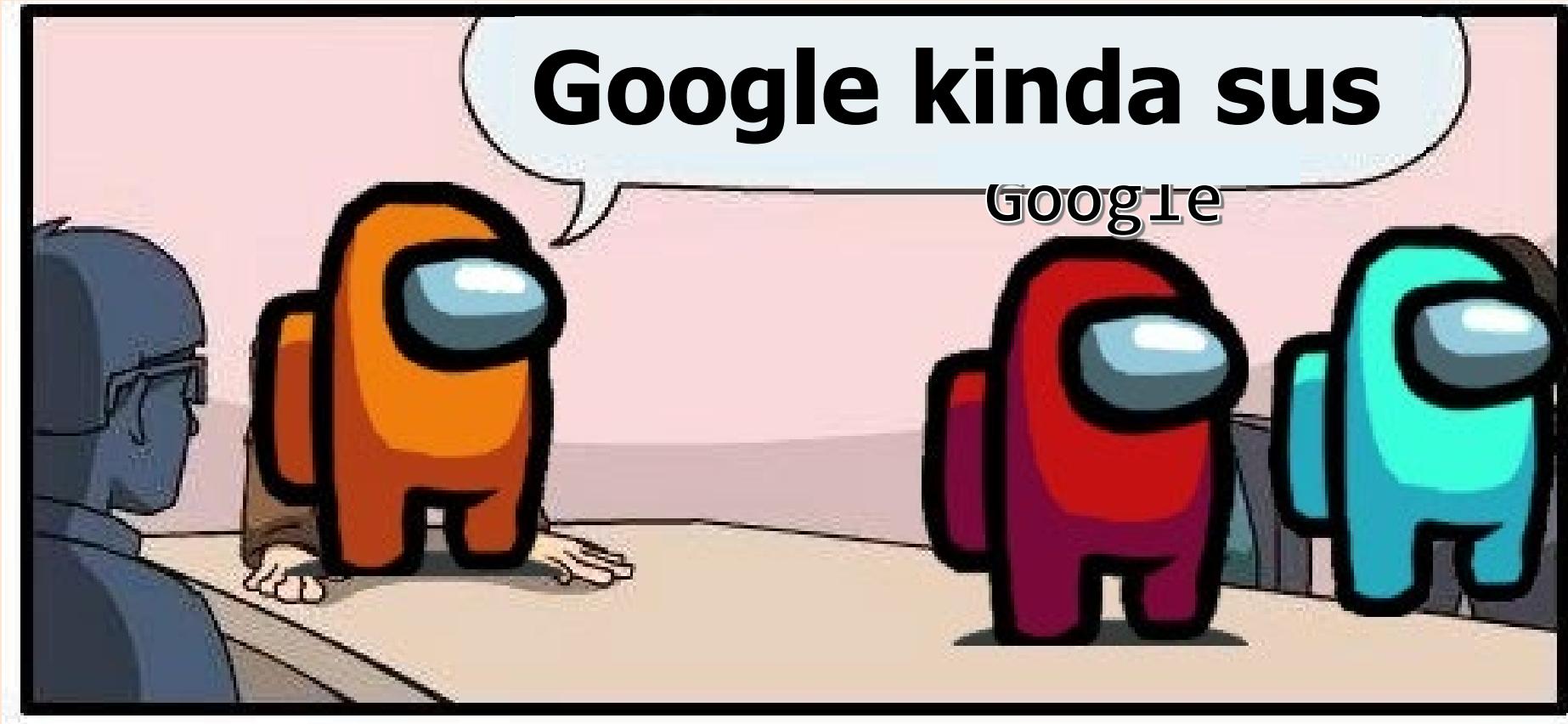
Google fails to end 'private browsing' snooping lawsuit



By [Malcolm Owen](#) | Mar 13, 2021

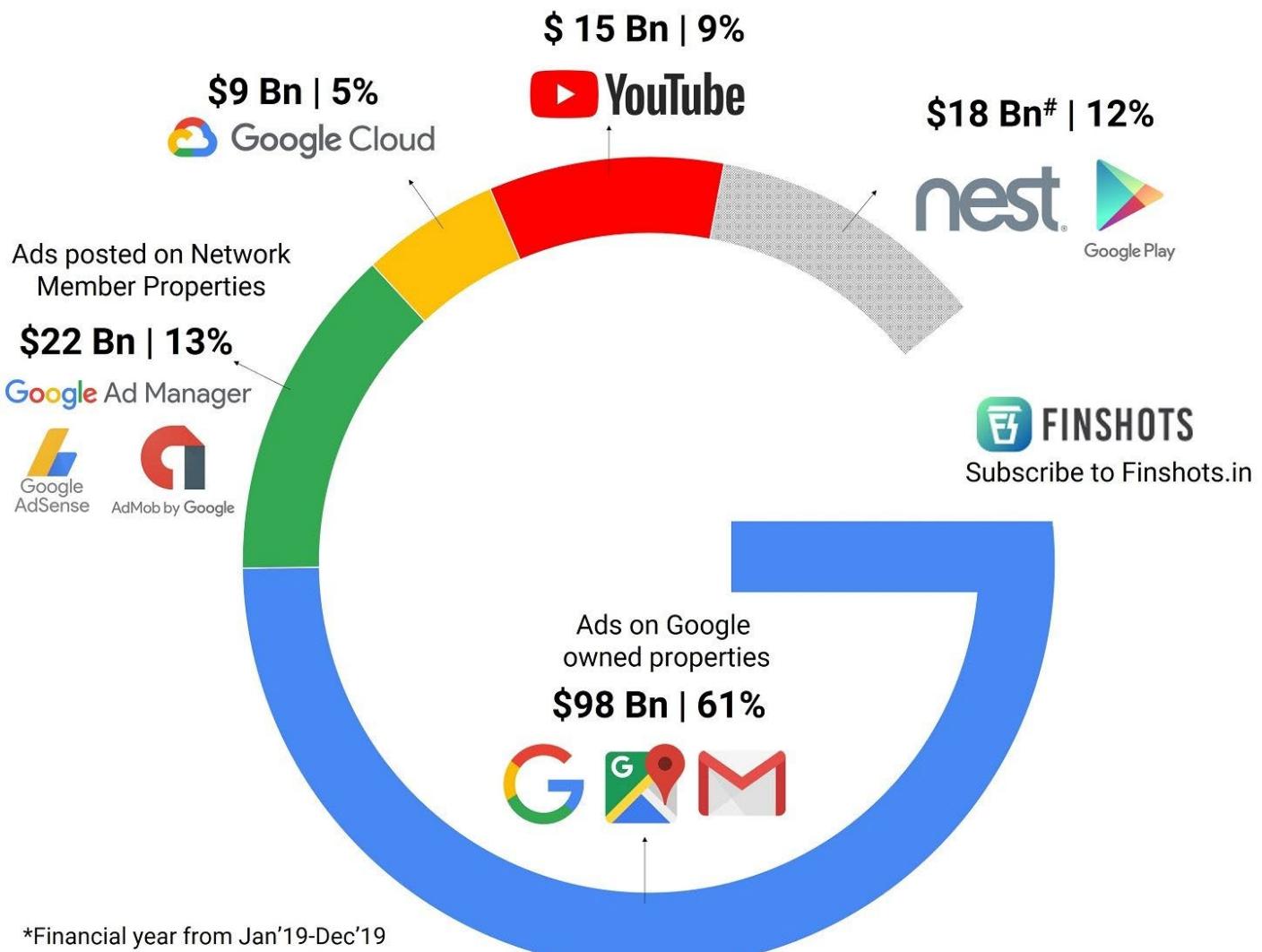
<https://appleinsider.com/articles/21/03/13/google-fails-to-end-private-browsing-snooping-lawsuit>

How important are Ads to Google?



BREAKING DOWN REVENUE STREAMS OF GOOGLE (ALPHABET)

Total Revenues: \$162 Bn



*Financial year from Jan'19-Dec'19

Revenue from Hardware devices; in-app purchases & digital content on Play Store; Misc revenues.



FINSHOTS

Subscribe to Finshots.in



THE TERM PAPER

Ad · 0:43  grammarly.com

You can skip to
video in 5



0:01 / 0:43



How important are Ads to Google?

Google Is Testing Its Controversial New Ad Targeting Tech in Millions of Browsers. Here's What We Know.

BY BENNETT CYPHERS | MARCH 30, 2021

**FloC =
Unblockable
cookies. Yay!**



<https://www.eff.org/deeplinks/2021/03/google-testing-its-controversial-new-ad-targeting-tech-millions-browsers-heres>

How important are Ads to Google?

LIFE BEYOND THE COOKIE

Google plots further Privacy Sandbox trials but concerns still linger

April 1, 2022 | By [Ronan Shields](#) | and [Seb Joseph](#)



“

Topics still relies on this idea of cross-domain targeting and I don't think that's something we should be doing anymore

Anonymous publisher source

<https://digiday.com/media/google-plots-further-privacy-sandbox-trials-but-concerns-still-linger/>

Outfoxing Google with Firefox

gorhill / uBlock

Code

Issues 47

Pull requests

Actions

Projects

Wiki

Security

Insights

uBlock Origin works best on Firefox

Raymond Hill edited this page 3 days ago · 5 revisions

This document explains why uBO works best in Firefox.

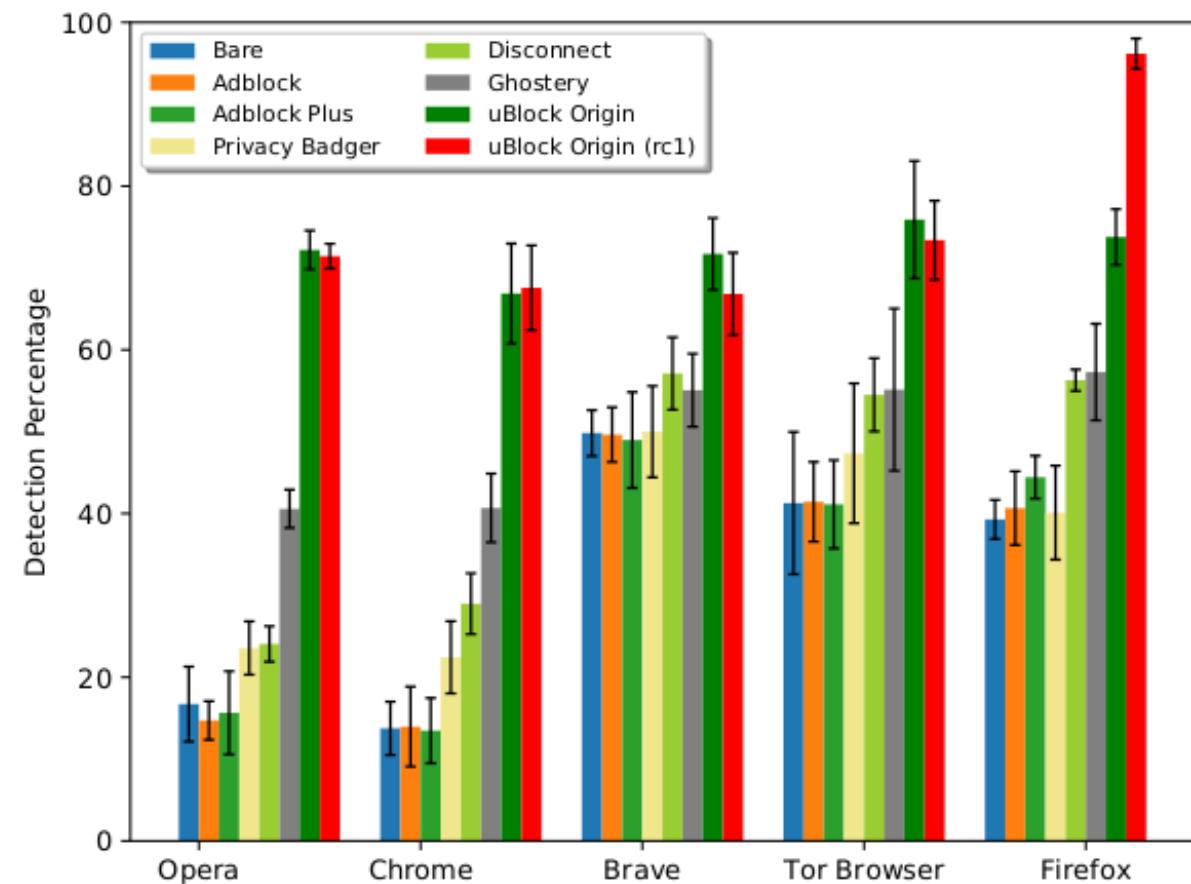
CNAME-uncloaking

Ability to uncloak 3rd-party servers disguised as 1st-party through the use of [CNAME record](#). The effect of this is to make uBO on Firefox the most efficient at blocking 3rd-party trackers relative to other other browser/blocker pairs:

The dark green/red bars are uBO before/after it gained ability to uncloak CNAMEs on Firefox.

Source: "[Characterizing CNAME Cloaking-Based Tracking on the Web](#)" at Asia Pacific Network Information Centre, August 2020.

<https://github.com/gorhill/uBlock/wiki/uBlock-Origin-works-best-on-Firefox>



Google is not alone.

The Observer
Facebook

Another huge data breach, another stony silence from Facebook

Carole Cadwalladr



Sun 11 Apr 2021 03.45
EDT

The social media giant is still a law unto itself. Can anybody hold it to account?

Guess who's back?

"Arguing that you don't care about the right to privacy because you have nothing to hide is no different than saying you don't care about free speech because you have nothing to say."

-Edward Snowden

<https://www.mic.com/articles/188563/who-cares-i-have-nothing-to-hide-why-the-popular-response-to-online-privacy-is-so-flawed>



Why is this all important?

**Would you trade in all your passwords in
order to use Facebook?**

**How about handing your phone off to a
stranger?**

**How does the government decide what is
“right” and “wrong”?**

Why is this important?

We will be working with information from people.

How do you take back control of data to community ownership?

Why is this important?

Think what is being collected and how it could be misused:

- **Images**
- **Video**
- **Words**
- **Names**
- **Addresses**

Open Source and Open Data in Summary

Open Source and Open Data

- ✓ Think about what information can be helpful for community members/local organizations
- ✓ Teach and give ownership to local people
- ✗ Extract information and leave
- ✗ Use any tool available because it's "easy"

Open Source and Open Data

**Use tools and data that empowers instead of
commodifies people.**



Wrap-up

Optional Thinking Cap for the week:

How can local communities take ownership of technology and surveys related to themselves?

Assignments

Due Wednesday 4/20:

1. Lab Assignment #3

2. Pre-Lab reading

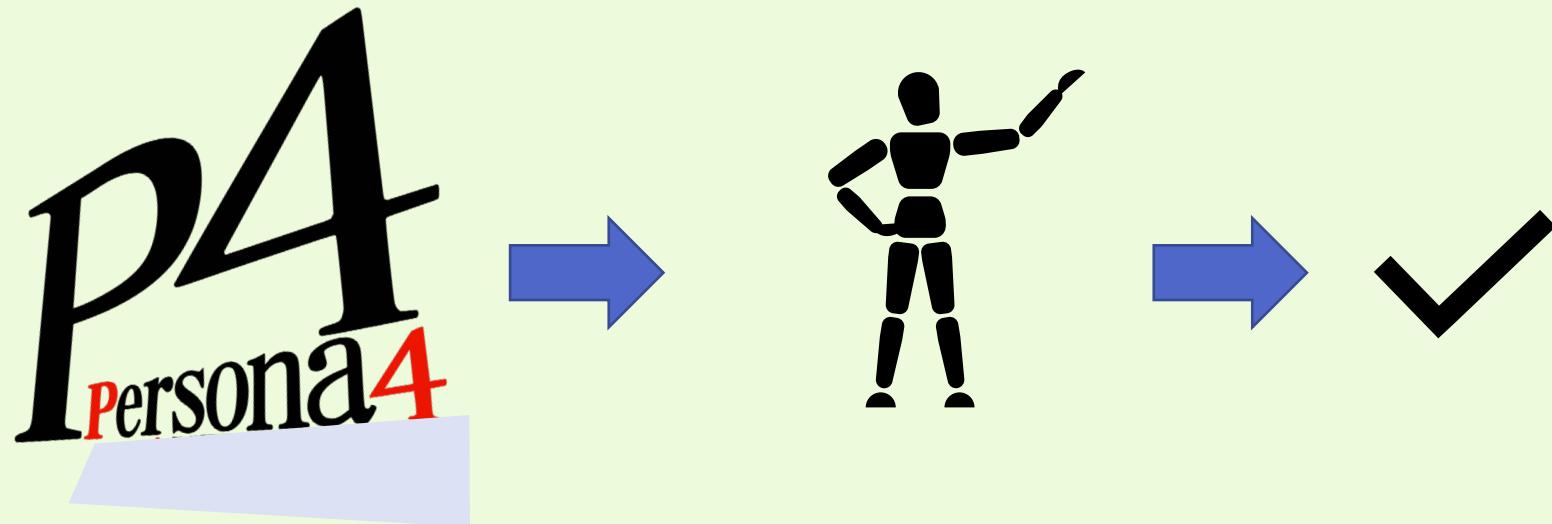
Extra Credit Reminders

Due Friday 4/25:

- 1. UCLA vs USC Mapathon**
- 2. Extra Thinking Cap**

Group Time!

Memo: Revisiting User Stories



Memo: Revisiting User Stories

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

Memo: Revisiting User Stories

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

Number of Hate Crimes

Category	Approximate Number of Cases
Race/Ethnicity	680
Religion	500
Gender/Sexuality	250
Miscellaneous	250

View only incidents that have been published

CONTINENTAL USA ALASKA HAWAII

Leaflet | © OpenStreetMap contributors

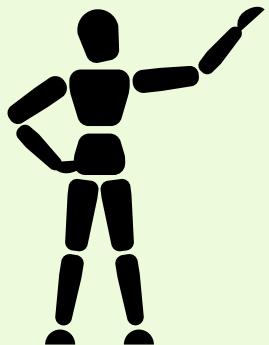
This map is maintained by the UCLA American Indian Studies Center under the Institute of American Cultures. To contact us, email aisc@ucla.edu.

Memo: Revisiting User Stories

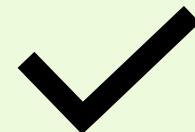
As a person who
faced a hate crime



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



Memo: Revisiting User Stories

UCLA

Newsroom

[Categories](#) [For news media](#)

[NATION, WORLD + SOCIETY](#)

Interactive map will crowdsource hate crime reports

Resource created by UCLA American Indian Studies Center could fill gap created by inconsistent data nationwide

[Mapping Hate Crimes in the US](#) [SEE COVID HATE CRIMES](#) [REPORT INCIDENT](#) [ABOUT](#)

Hate Crimes in the US

Number of Hate Crimes

700

<https://newsroom.ucla.edu/releases/hate-crime-map>

Memo: Revisiting User Stories

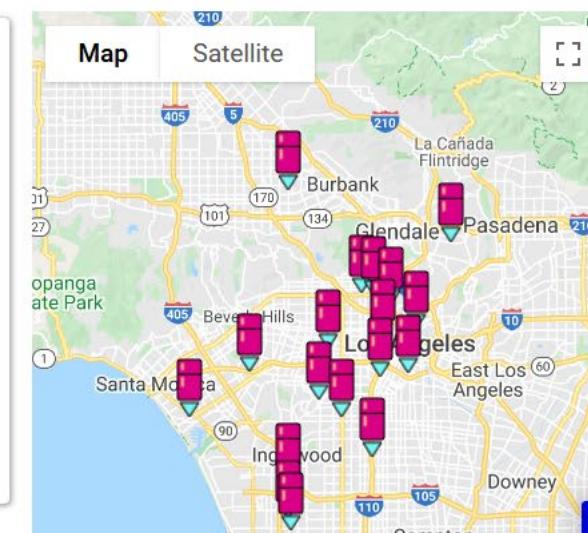
LA COMMUNITY FRIDGES

Active Fridges in Los Angeles

Show me fridges that Items (Choose up to 3)



South Arts District
Accessible 24/7
1411 Newton St, Los Angeles, CA 90021
 [Get Directions](#)
Has
 vegetables | verduras
Needs
 water/drinks | aguas/bebidas
Last check-in 04/11 @ 8:32pm



Map Satellite

The map displays the locations of active community fridges in Los Angeles, with numerous pink and teal markers indicating their positions across the city. Labeled areas include Burbank, Glendale, Pasadena, Santa Monica, Beverly Hills, and surrounding neighborhoods. Major highways like 405, 101, 170, 134, 210, 10, 60, 110, and 105 are shown.

 Built on Bubble

<https://community-fridge.bubbleapps.io/>

Group Time

- **Meet with your group to discuss:**
 - General project idea
 - Potential user stories
- **Present to the class:**
 - Elevator pitch
 - **Optional: Share with us 2 user stories**
- **If all your group members are missing join up with other students with missing members to discuss your project!**

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
- Template:
 - <https://tinyurl.com/eaxj27hx>
- Examples:
 - <https://tinyurl.com/2s47hfwe> | <https://tinyurl.com/36rt9mm3>