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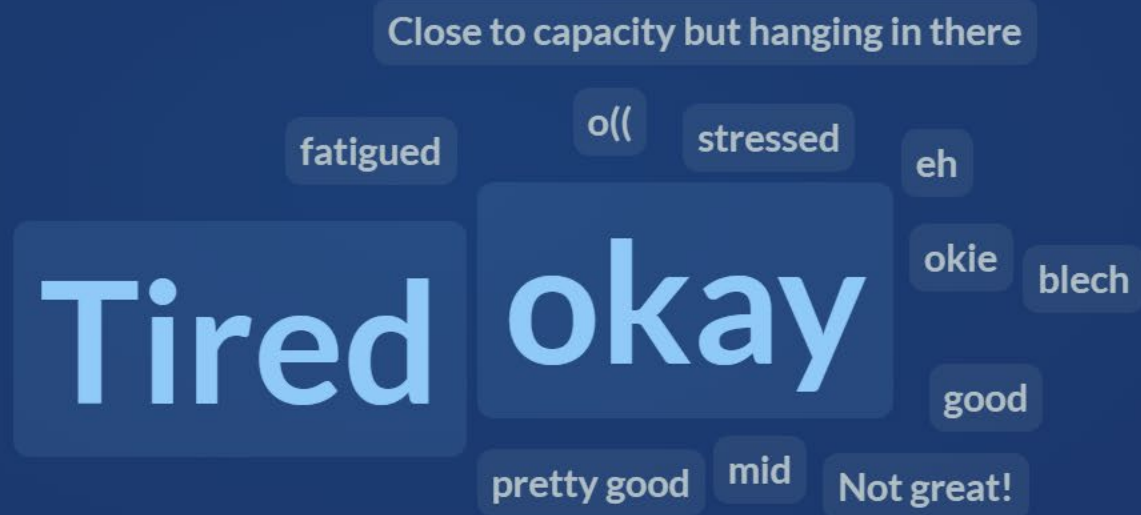
# Ethical Software and Developing for Civil Society

Albert S. Kochaphum  
Week 4 | April 18<sup>th</sup>, 2022



## Week 4! How are you feeling today?

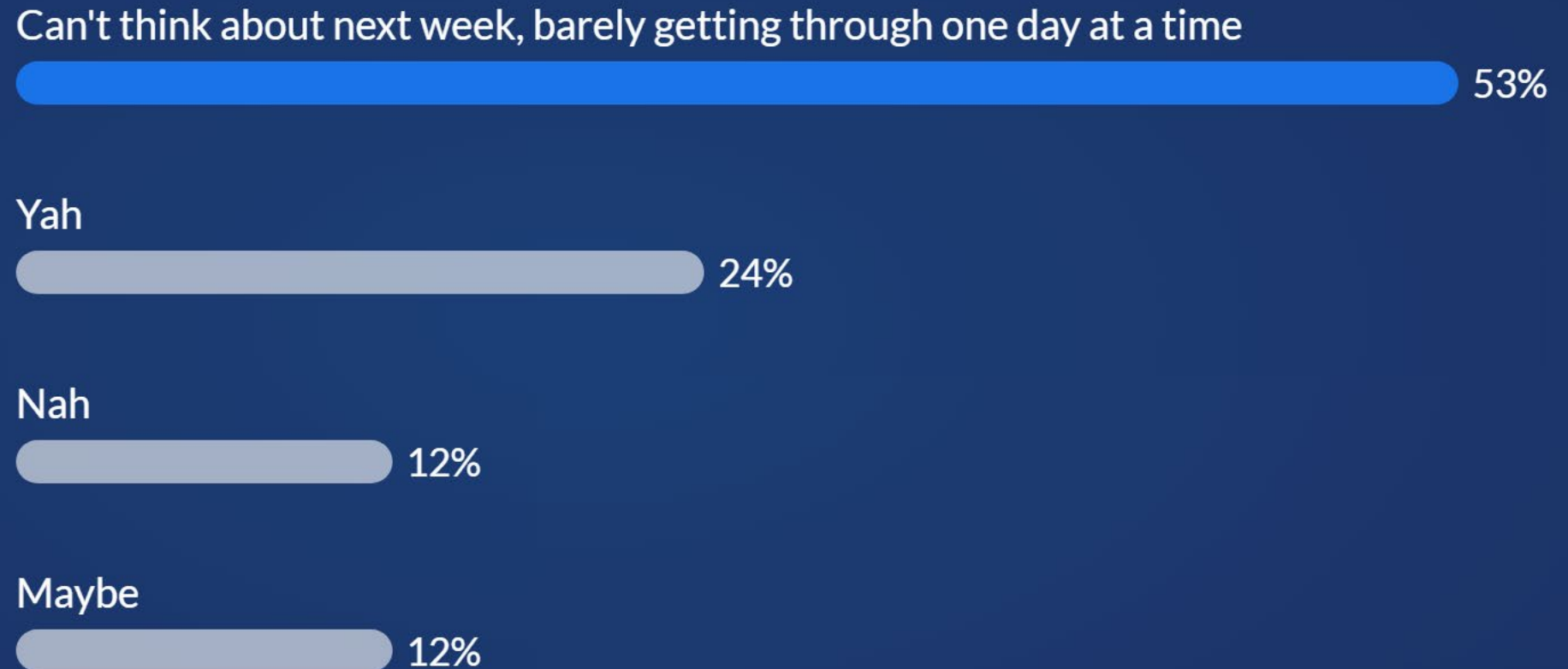
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### Stressed about midterms next week?





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### Stressed about midterms next week?







## How was lab 3's pacing?

Just right



Too fast



Too slow



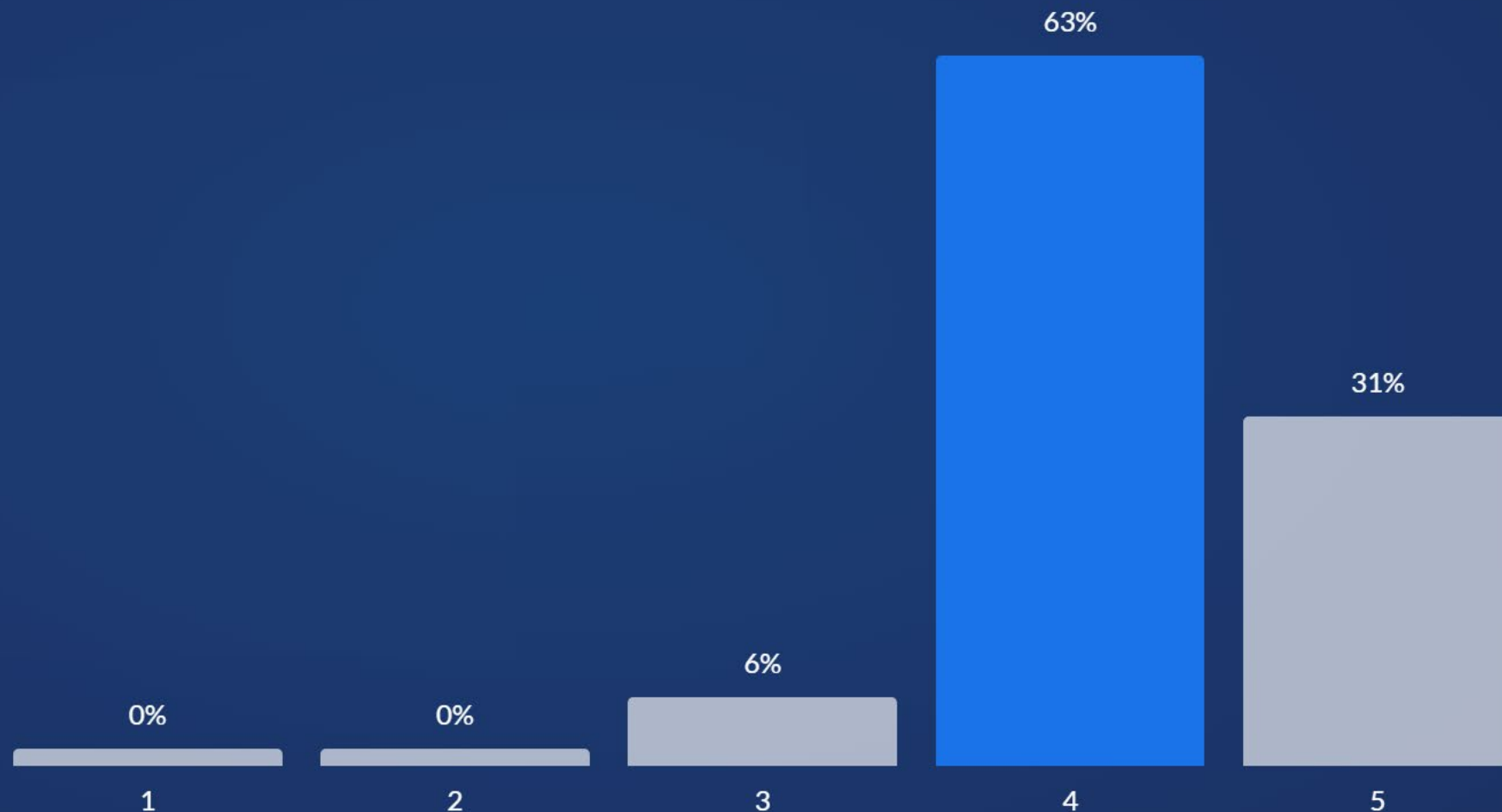
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## How would you rate this week's readings?

Score: 4.3



# 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**

# 5TH ANNUAL HUMANITARIAN MAPATHON WITH USC AND UCLA



20  
22



**"REGISTER AT 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": [
```

# ☆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?**

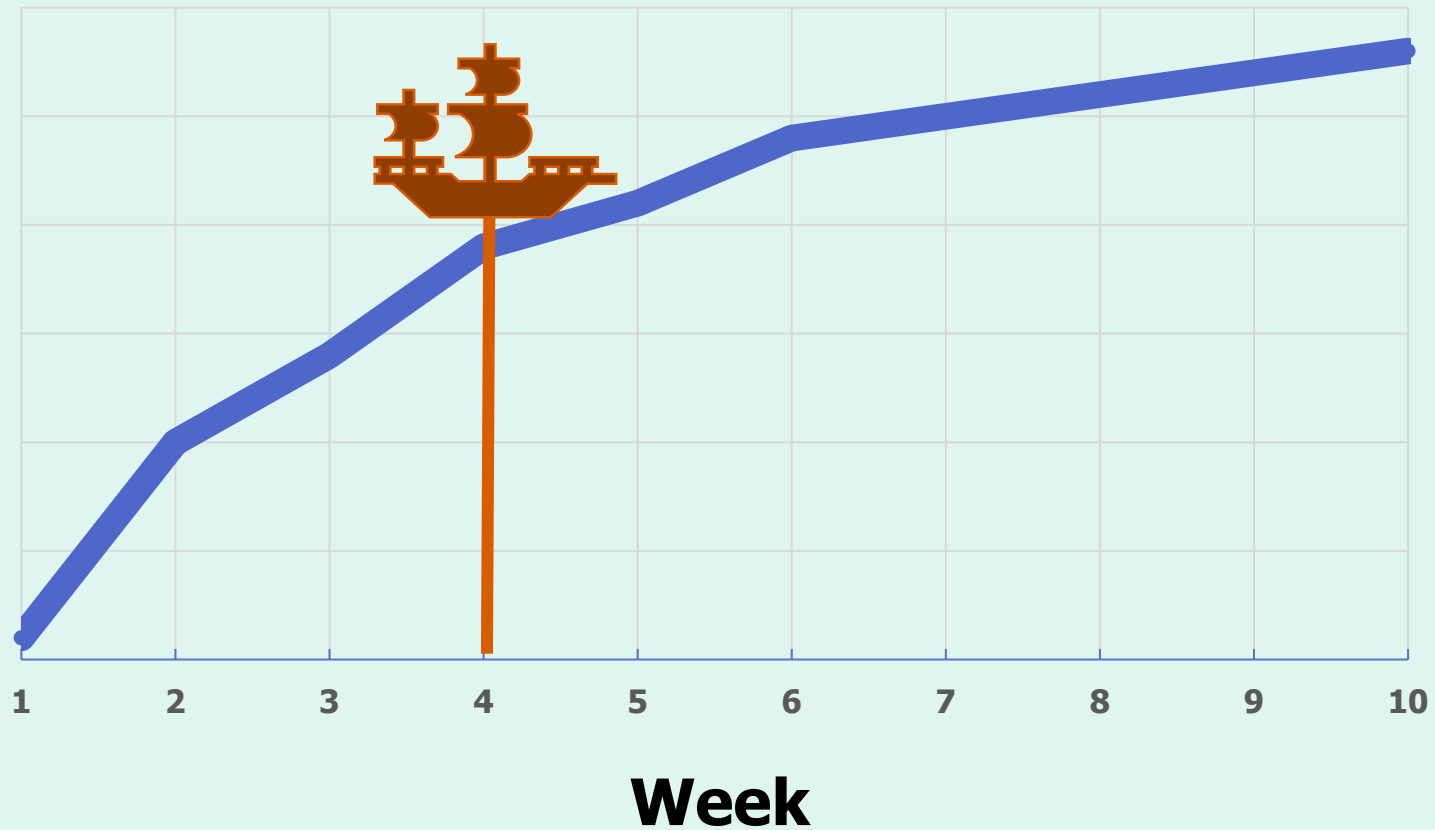


# Wednesday's 4/20 Lab

- 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

## Lab Difficulty



**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>



# Awards for Week 3

**Grand TetON point!**



**Nishaanth Krishnan**

**Ivy Tang**

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>

... 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 Fjorwards 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>



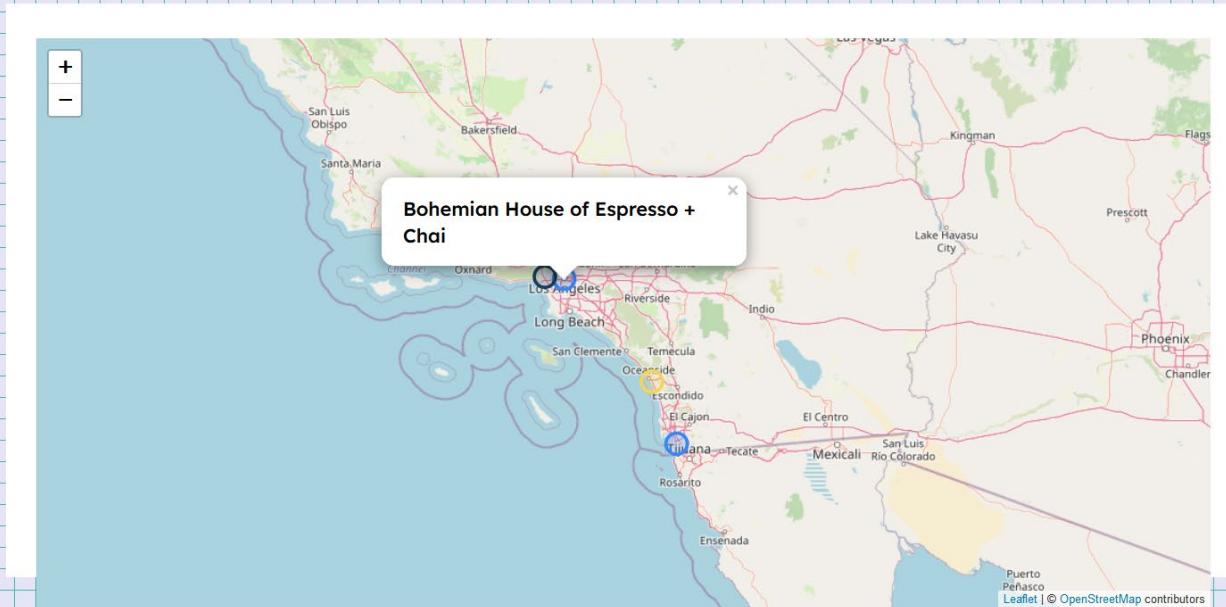
# Alwards for Week 3

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

**Anthony Lin**

antony lin

about me food contact me



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



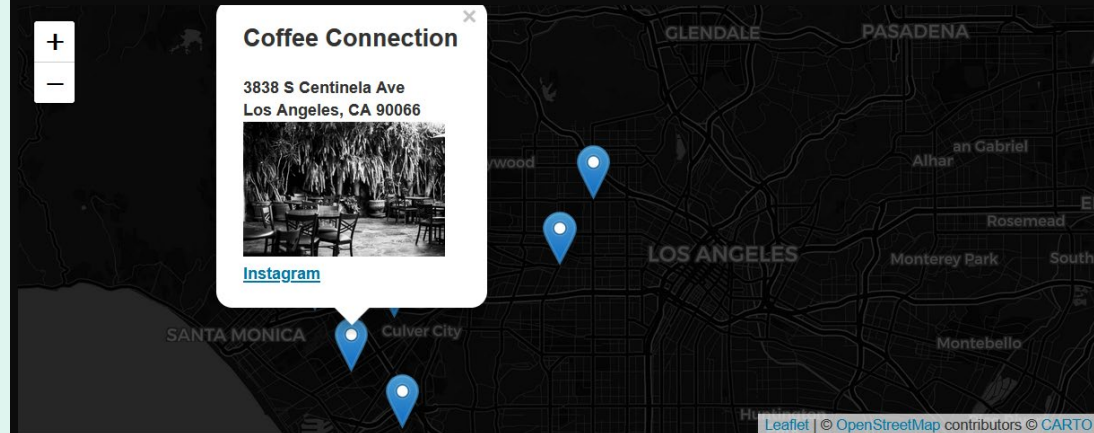
# Alwards for Week 3

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>

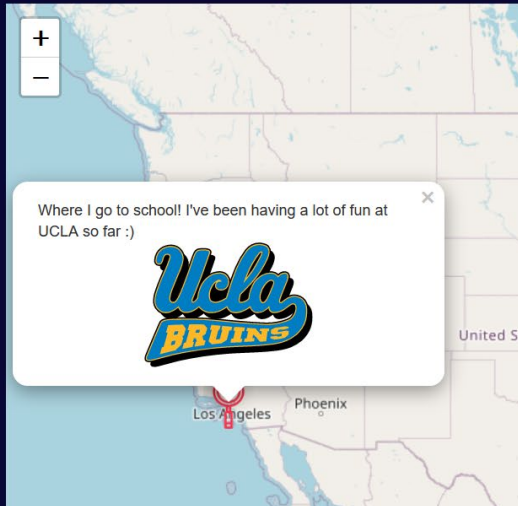


# Alwards for Week 3

## Nice Custom Map ZlcoN

Ashley Lu

Places I've Lived In



Copyright(2022)

```
// 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
}
```

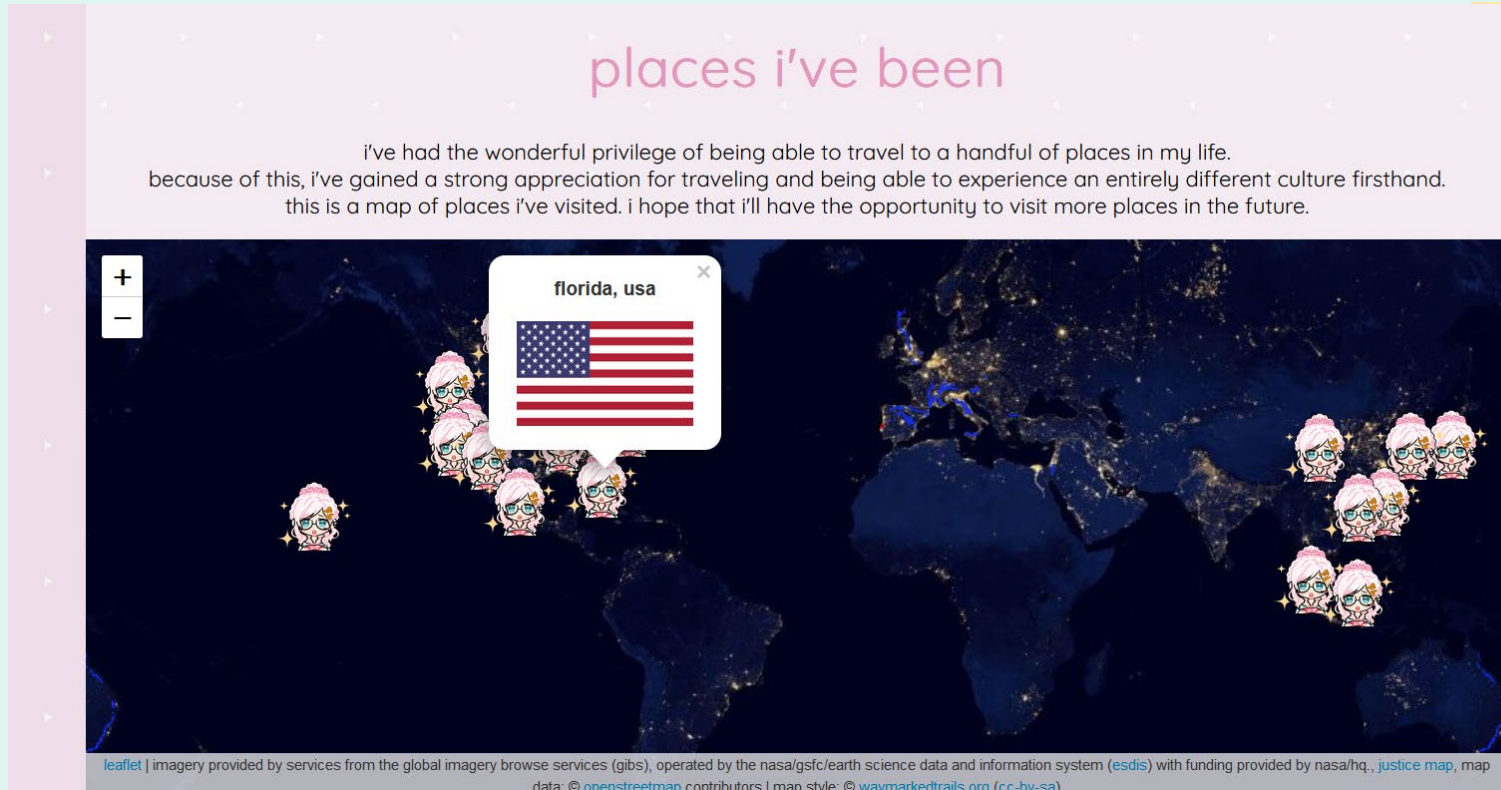


<https://ashley-lu.github.io/s22-asiaam-191a-assignments/week2lab/index.html>

# Alwards for Week 3

Nice staying Grand Canyon TOP of map design and code

Lindsey Mardona



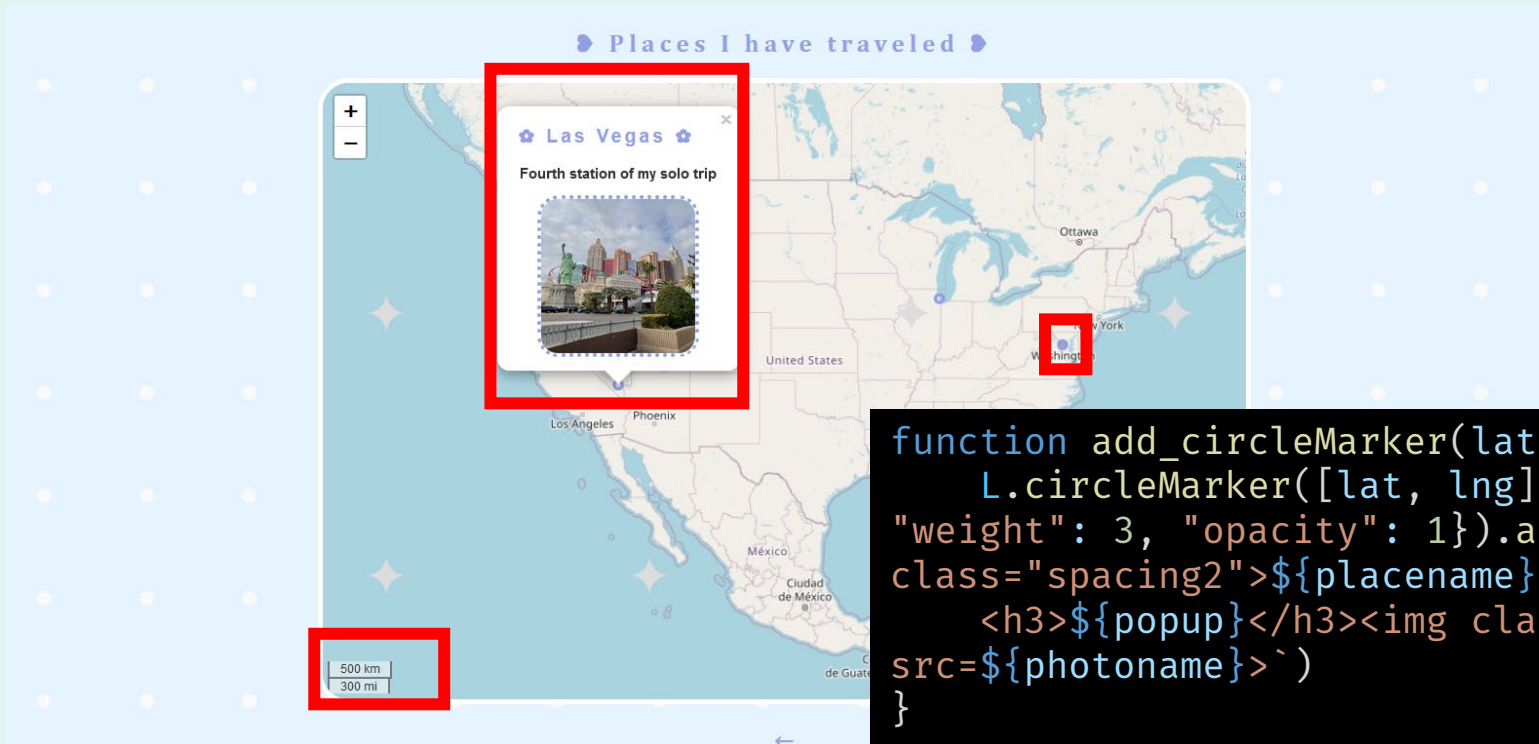
<https://lindseymardona.github.io/22s-asiaam-191a-labs/week2/index.html>



# Alwards for Week 3

## The YosemiteTEACHer's Site of the Week

Angeline Eow

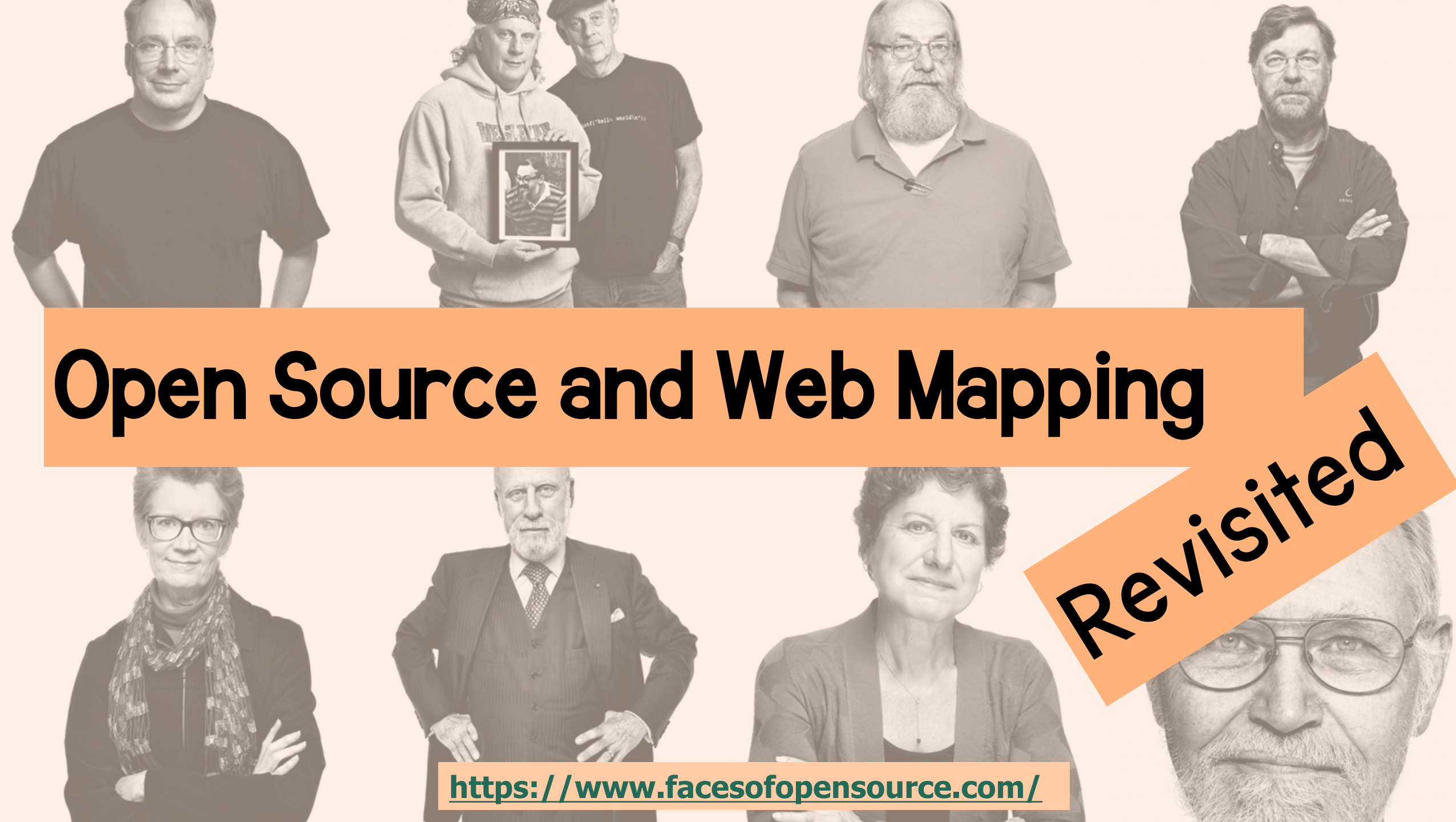


```
function add_circleMarker(lat, lng, placename, popup, photoname){
    L.circleMarker([lat, lng], {"radius": 4, "color": "#91a0e6",
    "weight": 3, "opacity": 1}).addTo(map).bindPopup(`<h2
    class="spacing2">${placename}</h2>
    <h3>${popup}</h3><img class="addborderandcenter"
    src=${photoname}>`)
}
```

[https://angelineeow.github.io/22s-asiaam-191a-labs/week2/more\\_about\\_me.html](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

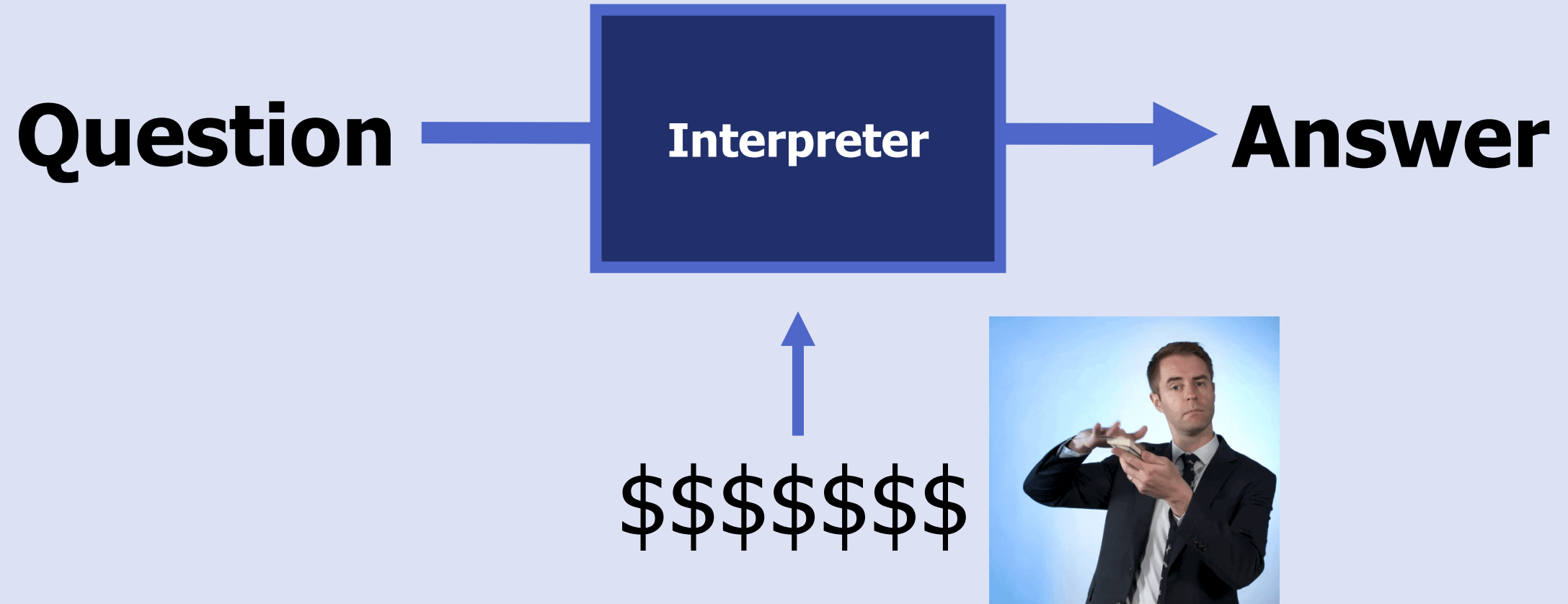
- Open Source
- Open Standards
- Open Data

**Leads to...**

**A collaborative open-community**

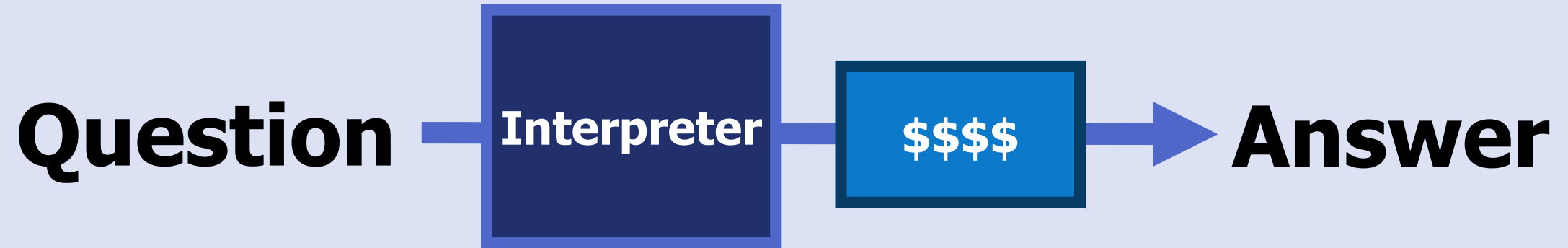
**Is this enough?**

# What is programming?





# What is programming?



# Importance of an open internet...



**What makes us programmers?**

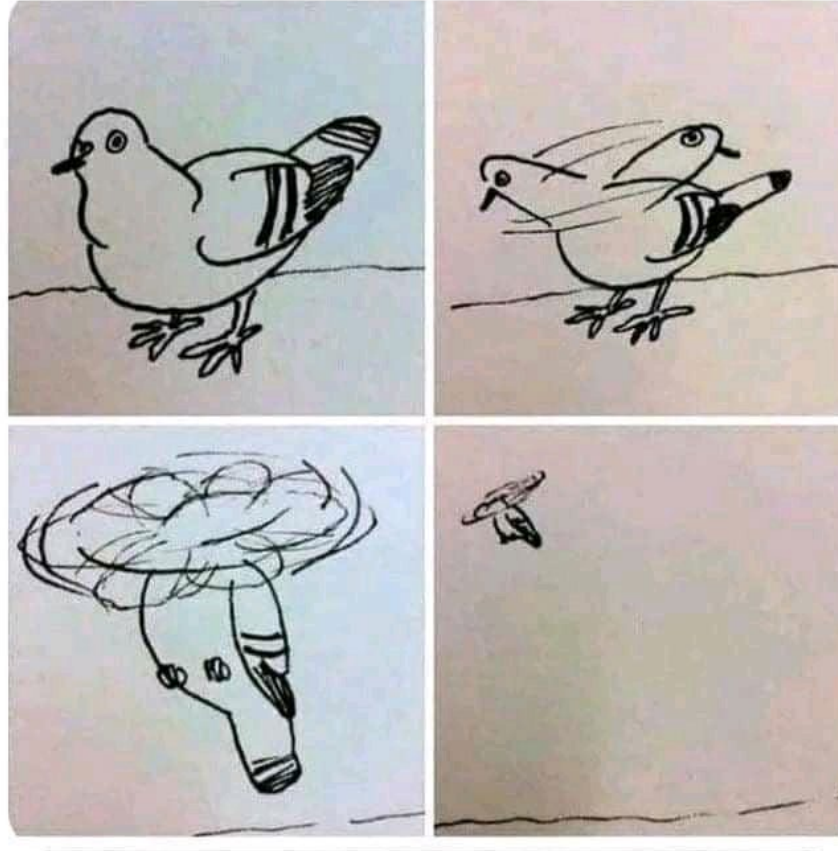


**When we see code, we don't give up!**

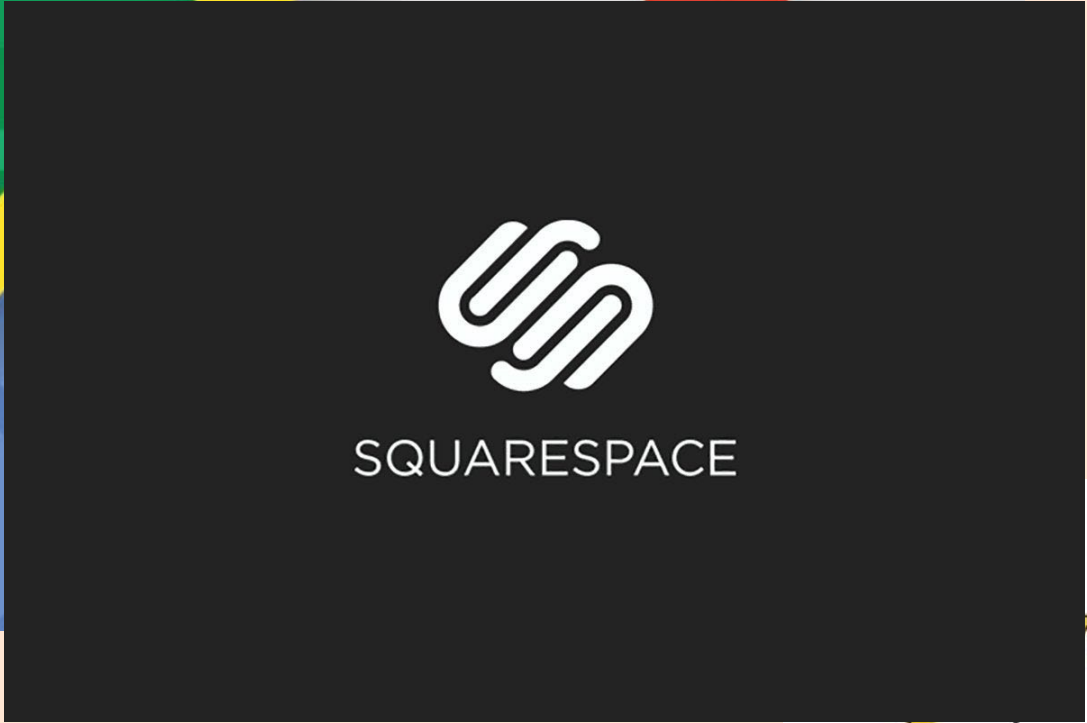


**When we see code, we GOOGLE it up!**

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



**So why JavaScript and Leaflet instead of...**





**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

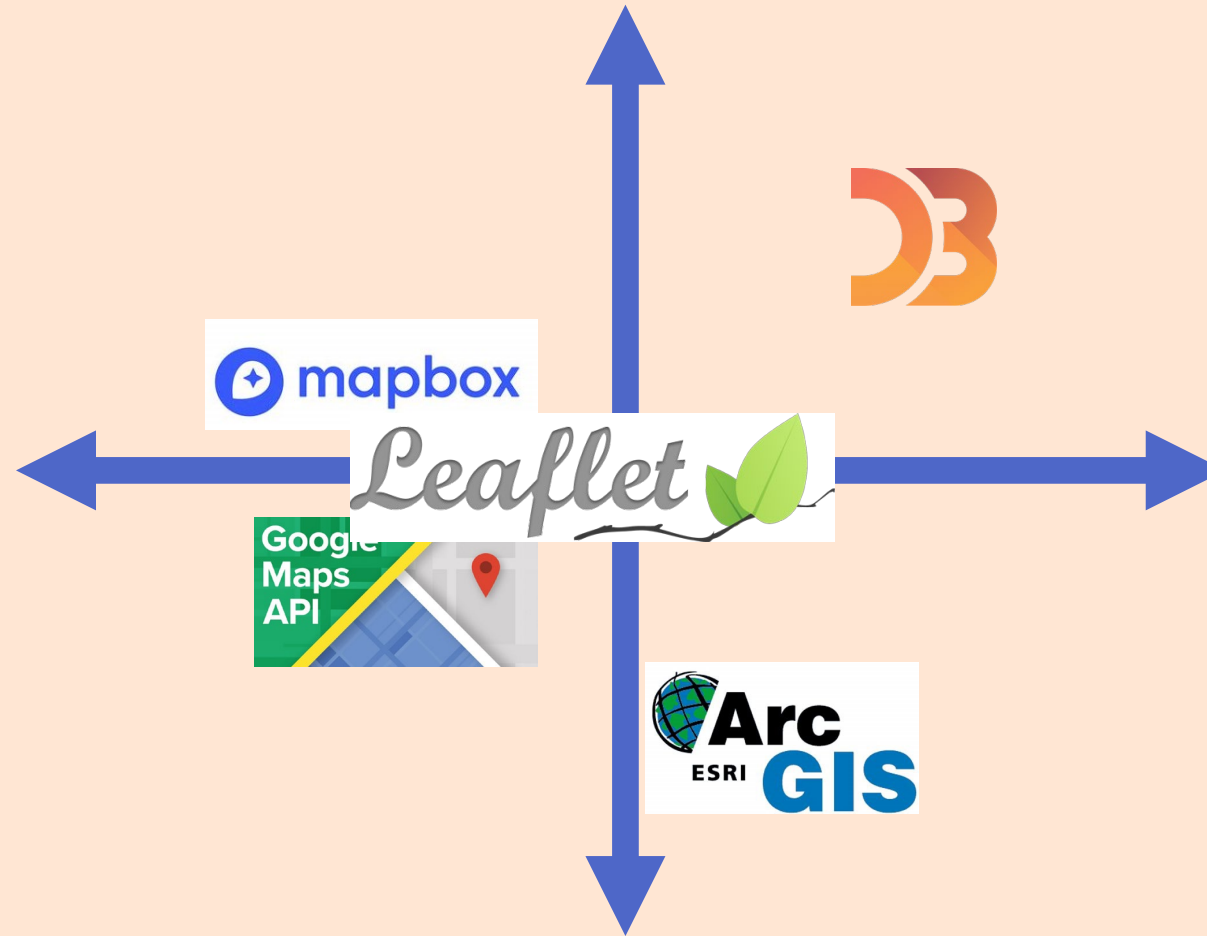
High

Low

Low

High

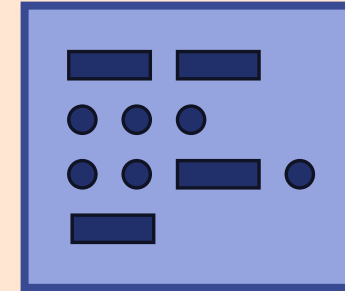
Barrier to understanding



# Open-source vs Closed-Source

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

**VS**

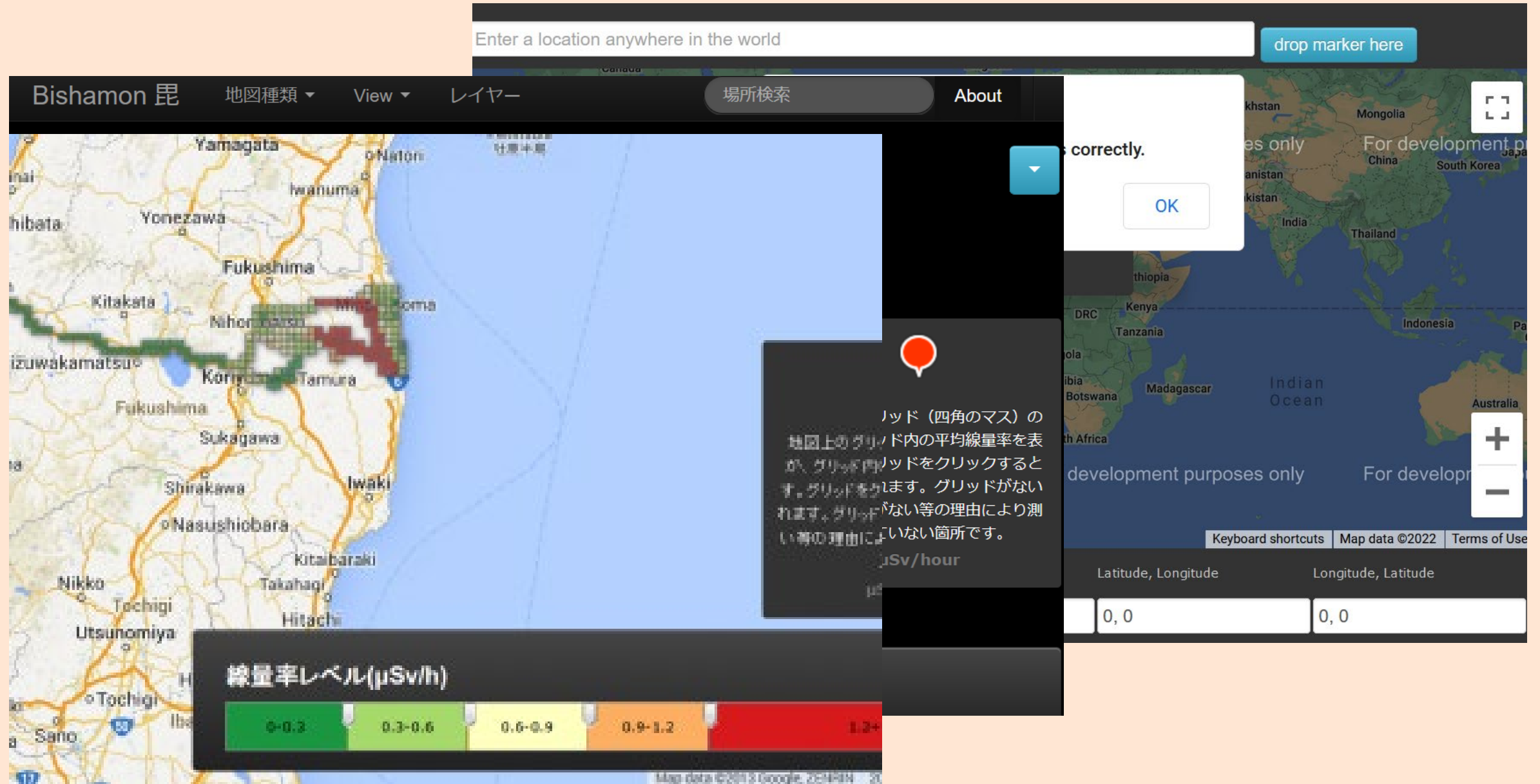


**You can see the code**

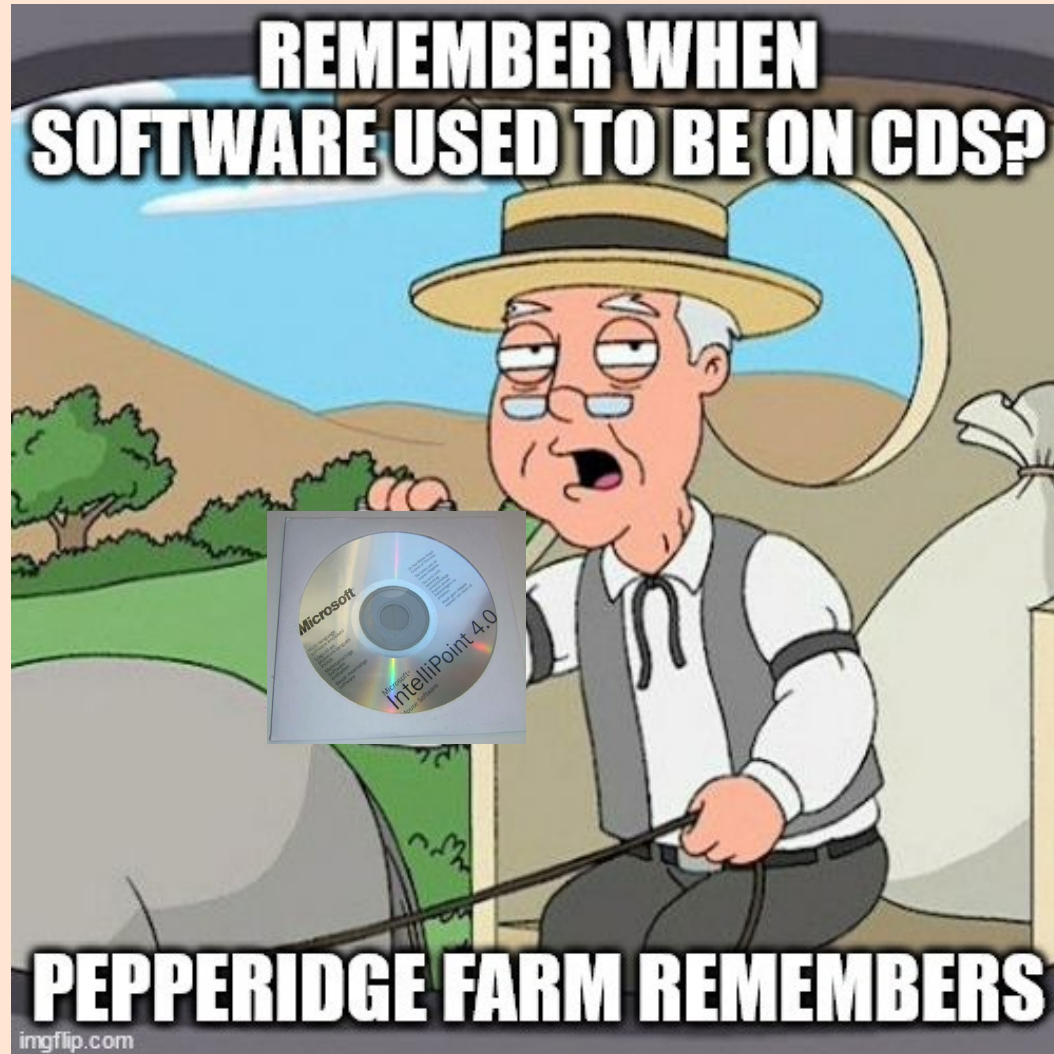
**You can never see the code**

**Think about why is this important?**

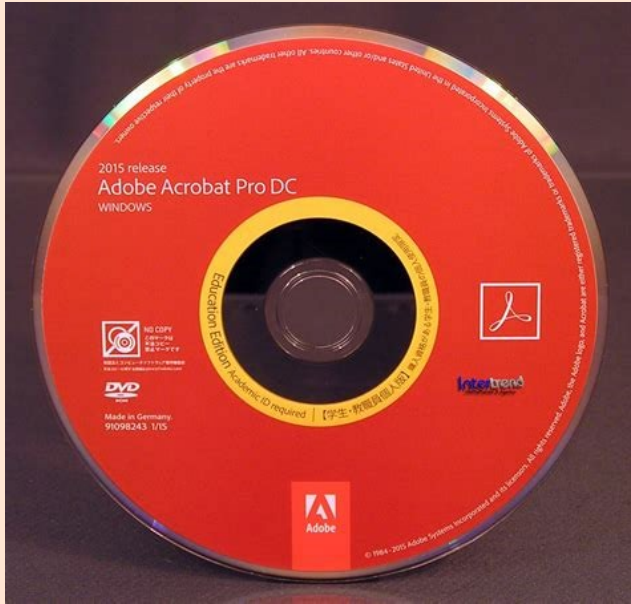
# Google API Depreciation



























# Quick History on software...



























# Quick History on software...



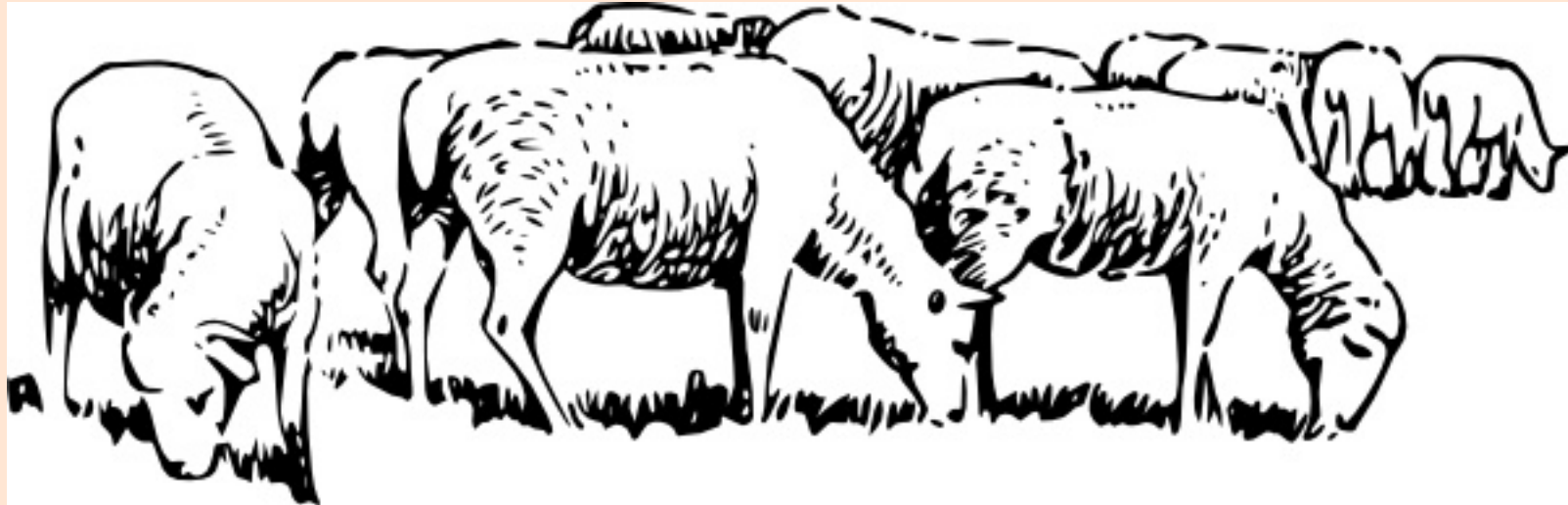


|  |   |  |
|--|---|--|
|  Bruce Momjian     |  Joe Conway          |  Alvaro Herrera      |
|  Thomas Munro     |  Tom Lane           |  Andrew Dunstan     |
|  Robert Haas      |  Stephen Frost      |  Peter Eisentraut   |
|  Amit Kapila      |  Peter Geoghegan    |  Tomas Vondra       |
|  Andres 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   |

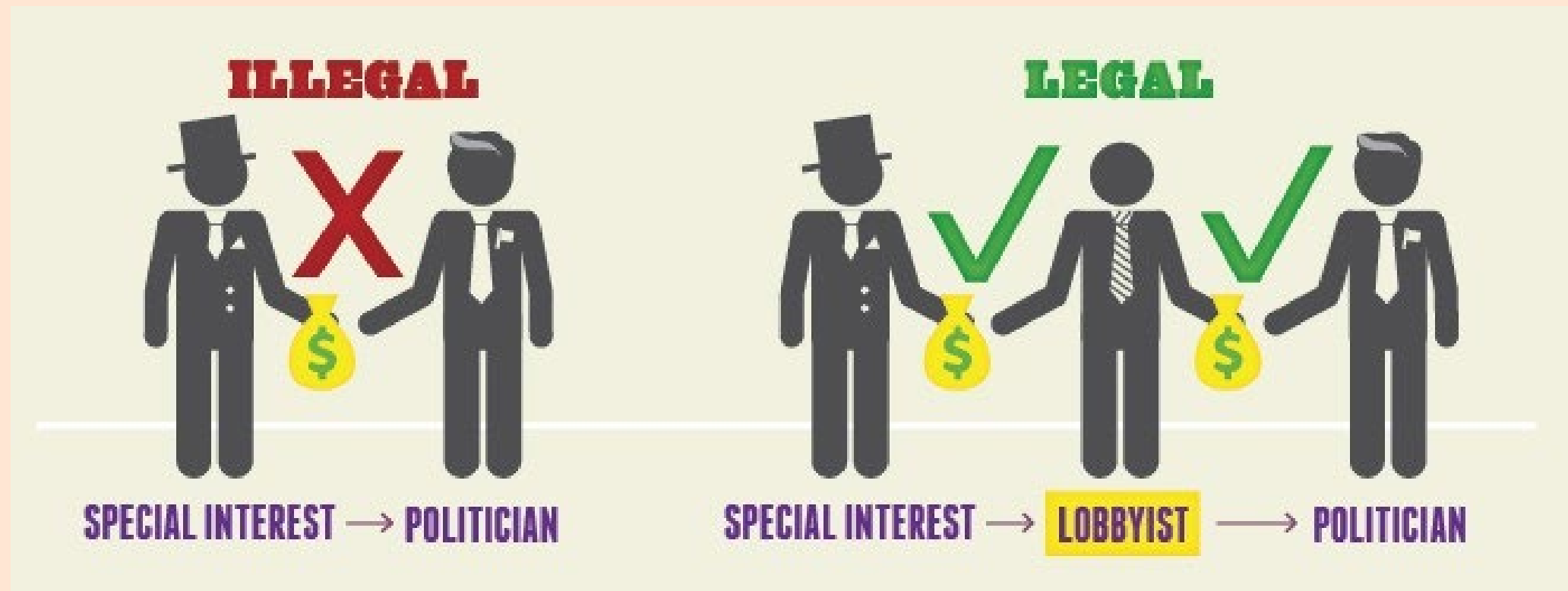
|   |   |  |
|---|---|--|
|  Bruce Momjian      |  Joe Conway          |  Alvaro Herrera      |
|  Thomas Munro      |  Tom Lane           |  Andrew Dunstan     |
|  Robert Haas       |  Stephen Frost      |  Peter Eisentraut   |
|  Amit Kapila       |  Peter Geoghegan    |  Tomas Vondra       |
|  Andres 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   |

**Is this fair?**

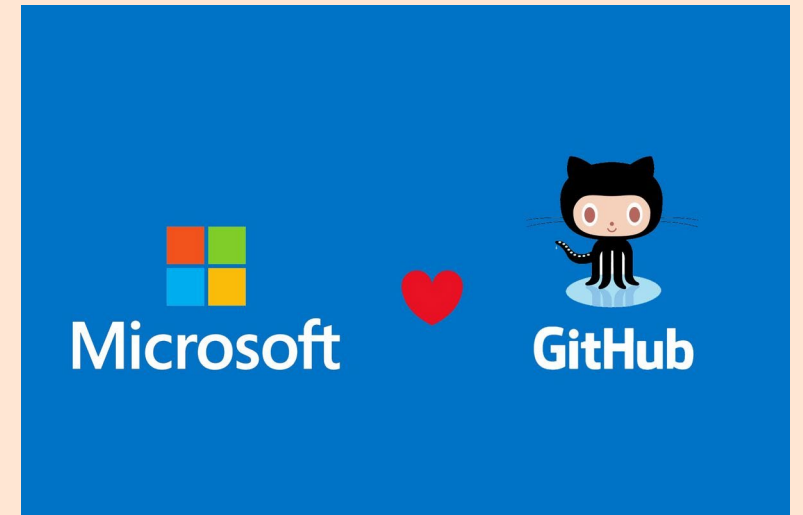
# Tragedy of the commons



# Have coporations infiltrated open source?

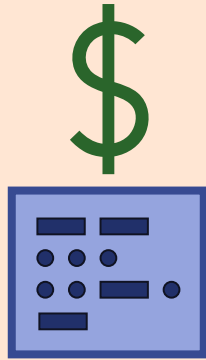


# Have corporations infiltrated open source?



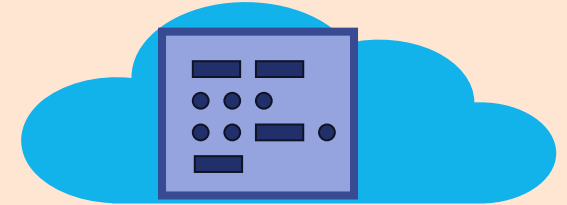
# Summary

## Proprietary Software

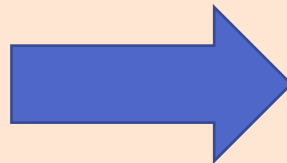
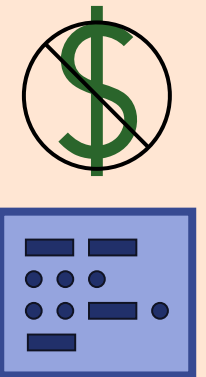


## Software as a Service

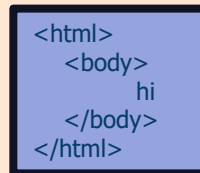
To a point Takes your data



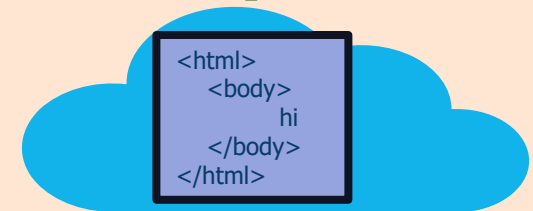
## Free software



## 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



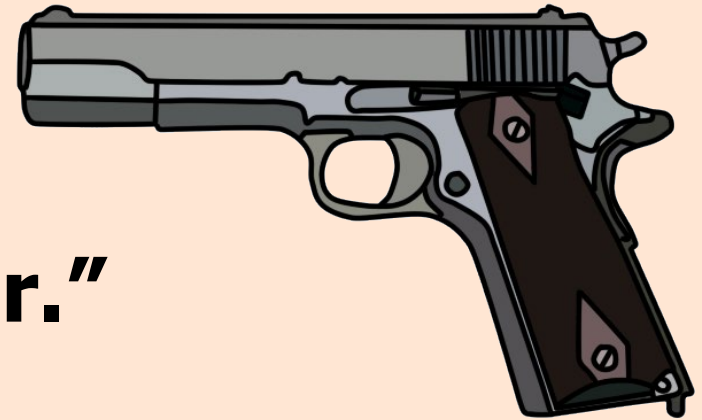
<https://www.msn.com/en-us/news/technology/return-of-stallman-to-fsf-sparks-outrage-among-open-source-and-free-software-leaders/ar-BB1eVPC8>

[http://lists.opensource.org/pipermail/license-discuss\\_lists.opensource.org/2020-February/021328.html](http://lists.opensource.org/pipermail/license-discuss_lists.opensource.org/2020-February/021328.html)

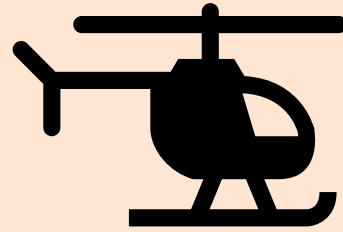
# Issues with open source...

**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**

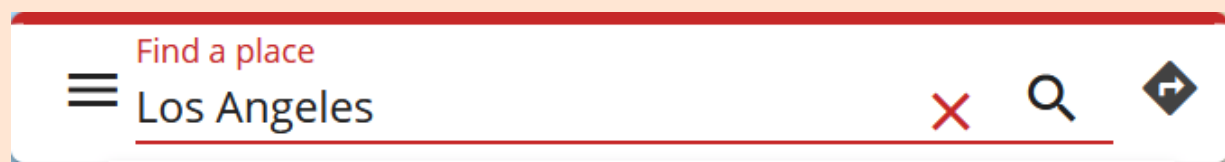
<https://ethicalsource.dev/>

# Ethical Source License

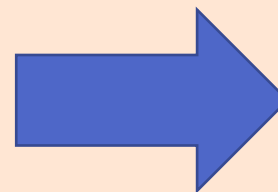


**GNU**  
General Public License

# Example: Geocoding



A screenshot of a Google Maps search bar. It features a red top bar with the text "Find a place" in red. Below this, the text "Los Angeles" is entered in black. To the right of the text are three icons: a red 'X' for clearing the search, a magnifying glass for searching, and a location pin icon. A hamburger menu icon is on the left.



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:

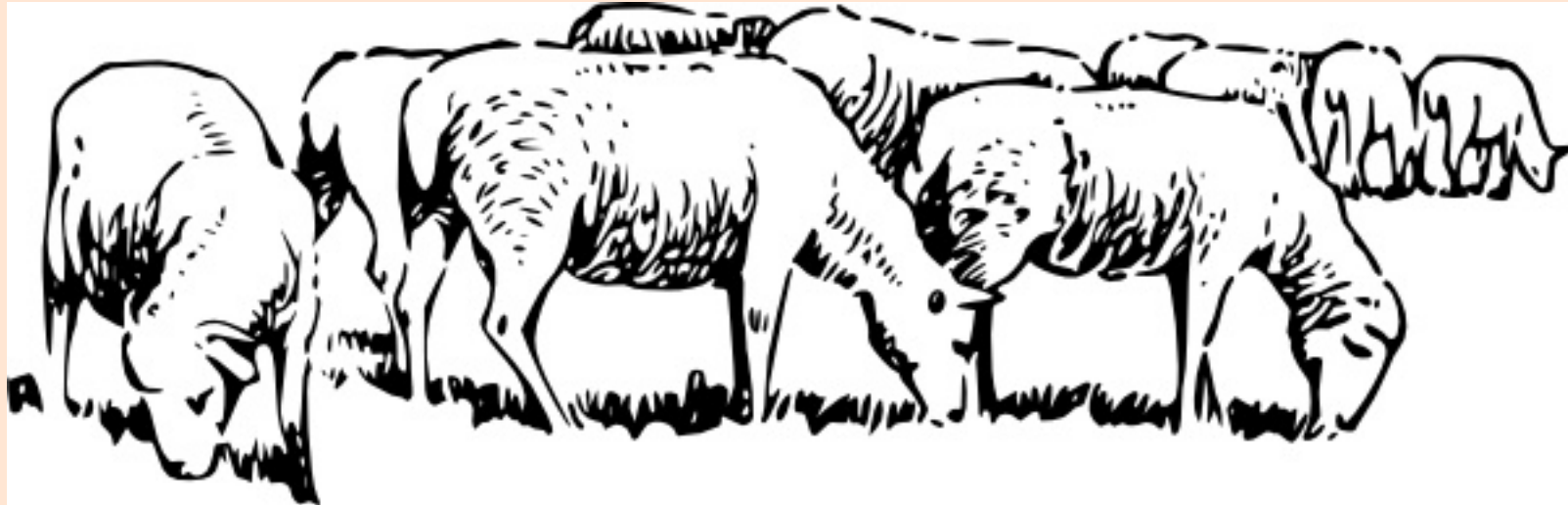
- [LatLng](#) to parse basic latitude/longitude strings
- [OSM/Nominatim](#)
- [Bing Locations API](#)
- [Google Geocoding API](#)
- [Mapbox Geocoding](#)
- [MapQuest Geocoding API](#)
- [What3Words](#)
- [Photon](#)
- [Pelias](#), [geocode.earth](#) (formerly Mapzen Search), [Openrouteservice](#)
-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

## Google Maps Platform APIs by Platform 🔖

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



# Public data is now the commodity





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- [Content Protection Technology](#), and

Print

Save

Accept

Decline

# Welcome to iCloud

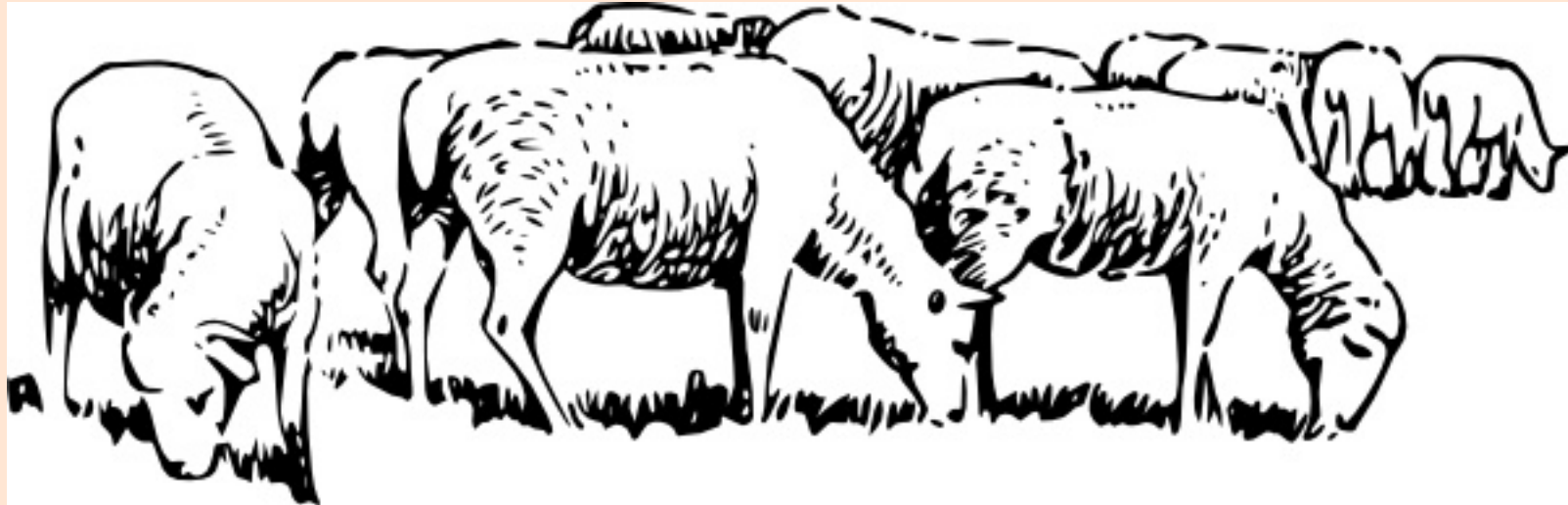
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Apple is the provider of the Service, which permits you to utilize certain Internet services, including storing your personal content (such as contacts, calendars, photos, notes, reminders, documents, app data, and iCloud email) and making it accessible 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

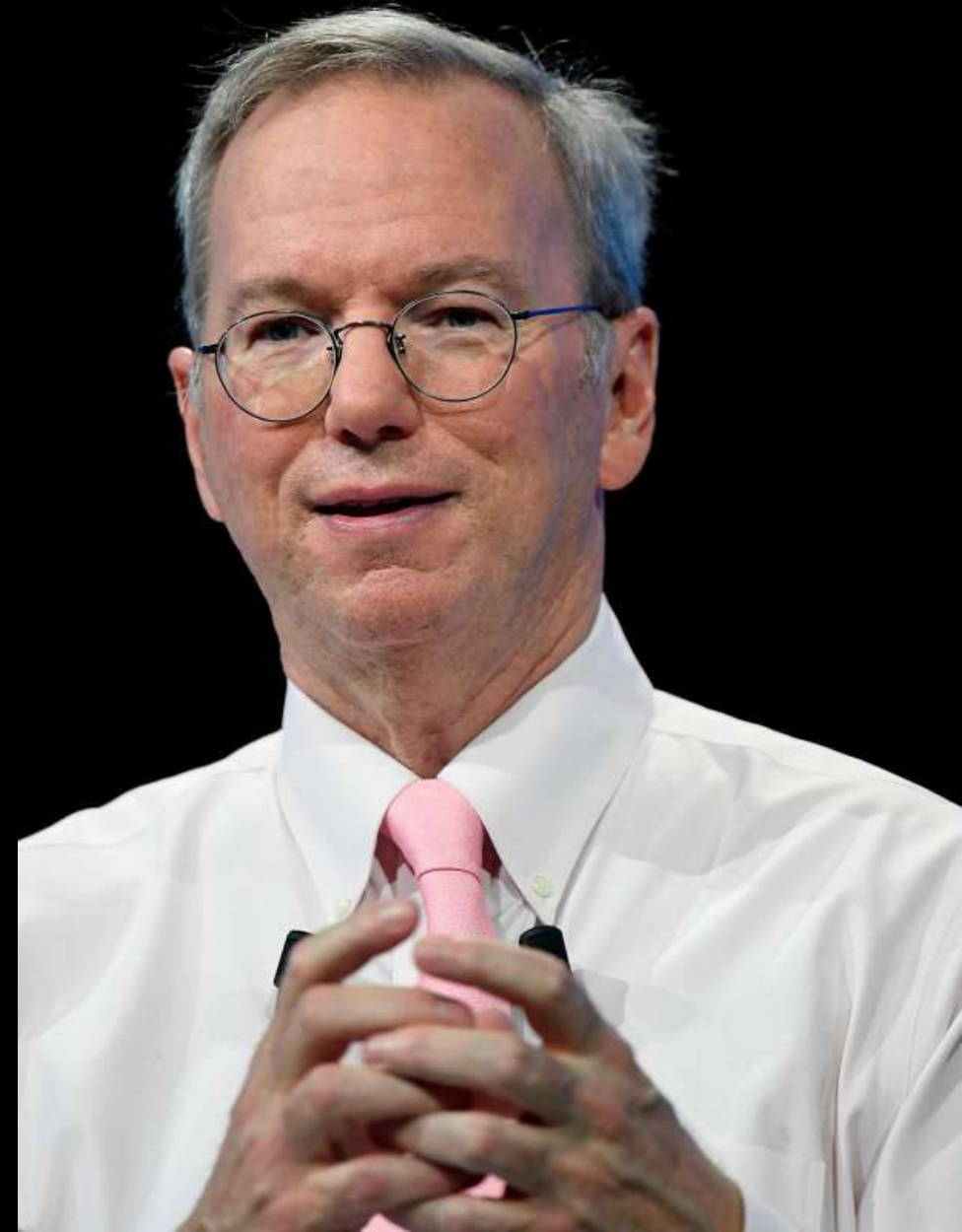
# Your data is now the commodity

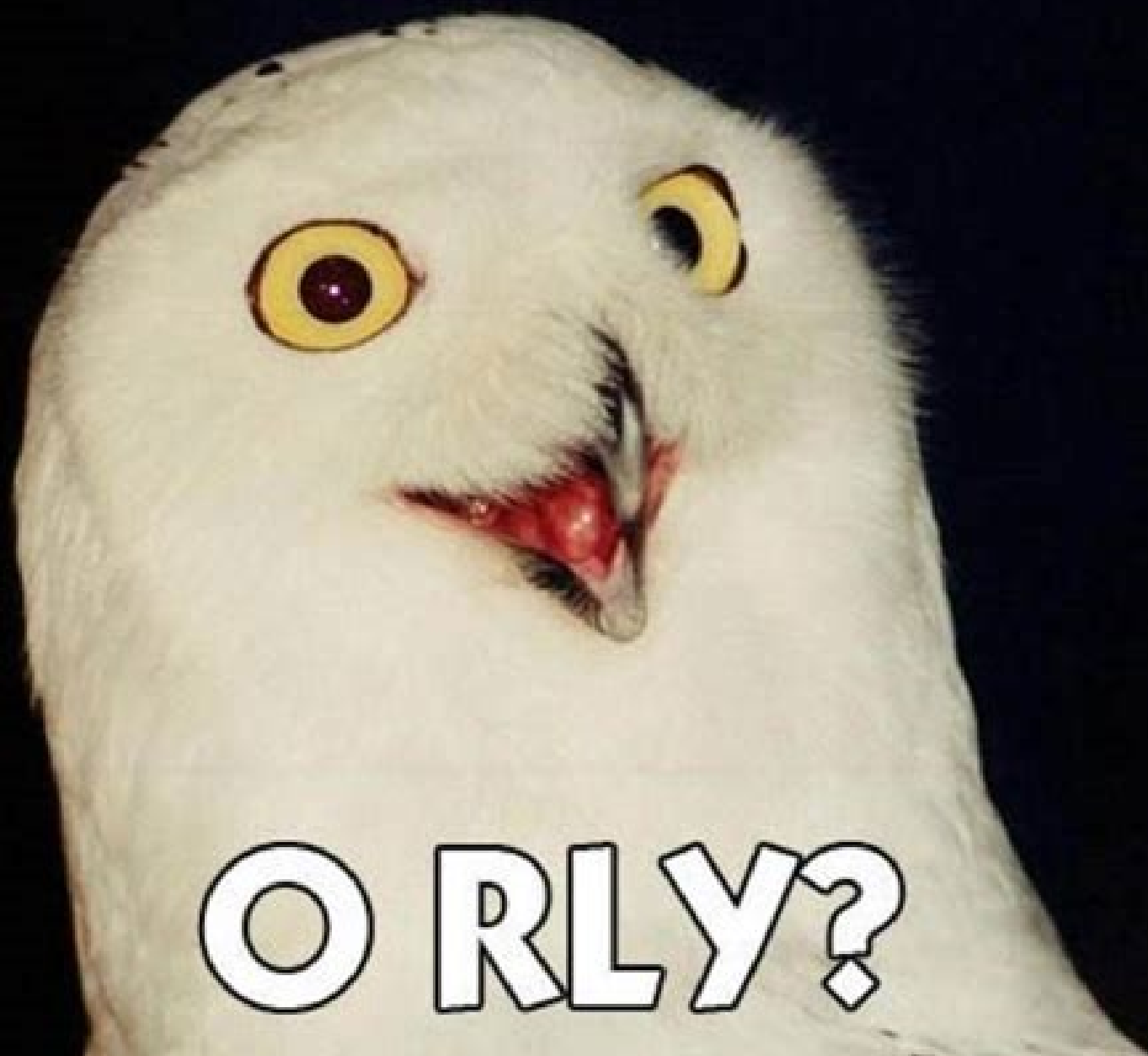




"If you're doing something you don't want anyone to know, maybe you shouldn't be doing it in the first place."

- Eric Schmidt, Google CEO





© RLY?



# 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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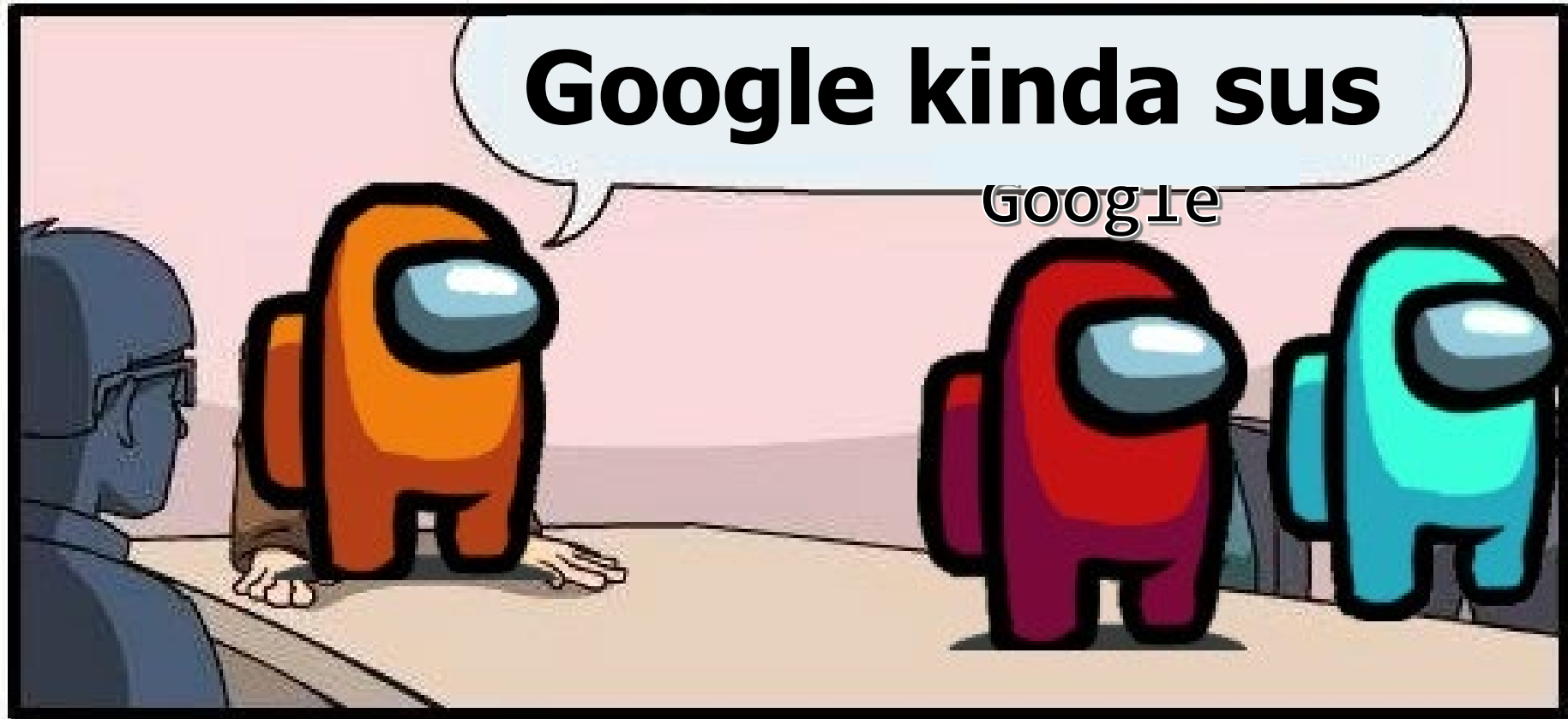
# Google fails to end 'private browsing' snooping lawsuit



By *Malcolm Owen* | Mar 13, 2021

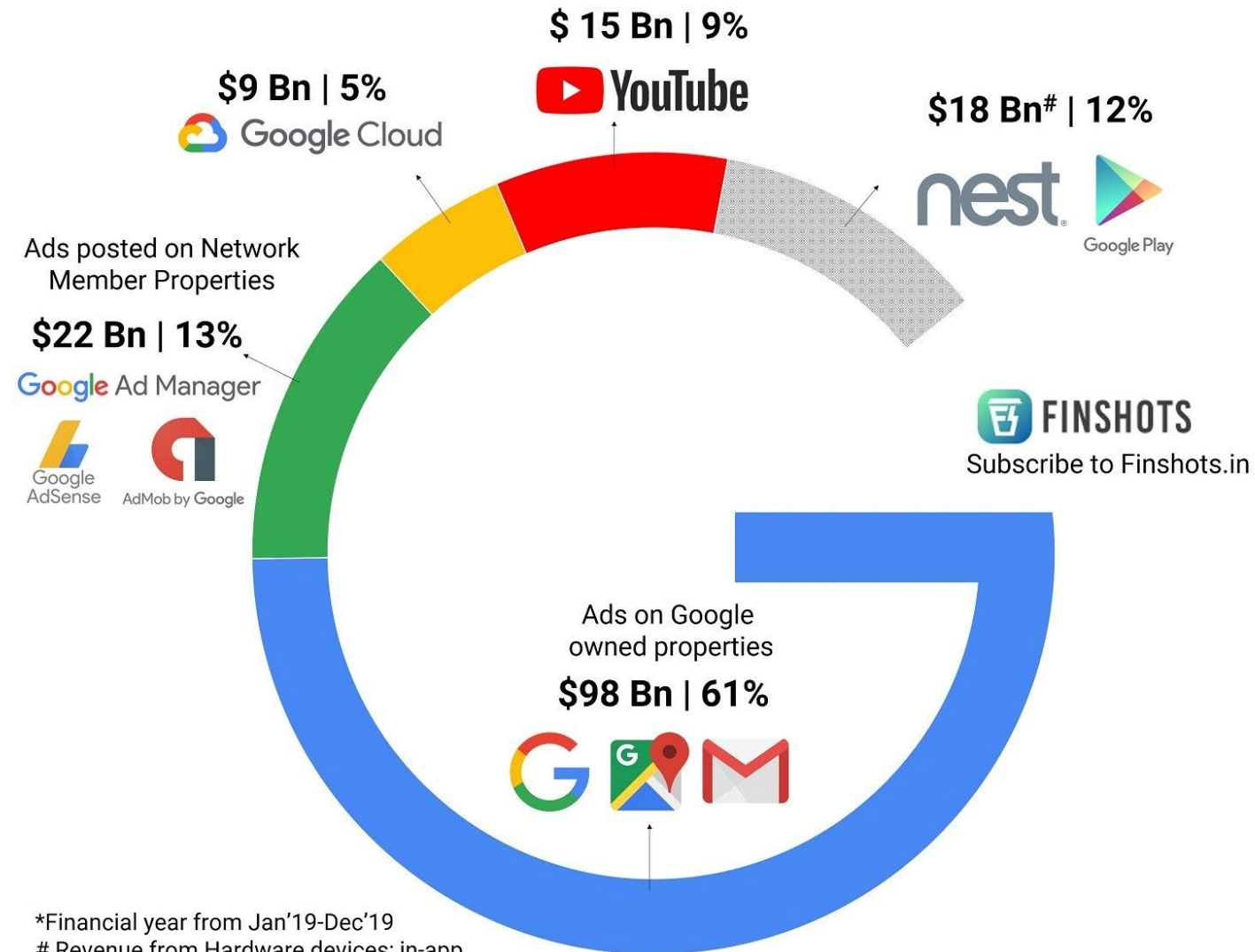
<https://appleinsider.com/articles/21/03/13/google-fails-to-end-private-browsing-snooping-lawsuit>

# 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.

# THE TERM PAPER

Ad · 0:43  [grammarly.com](https://www.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!**



**Your browser does not have FloC enabled.**

The FLoC origin trial only affects Google Chrome versions 89 and above.

<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.

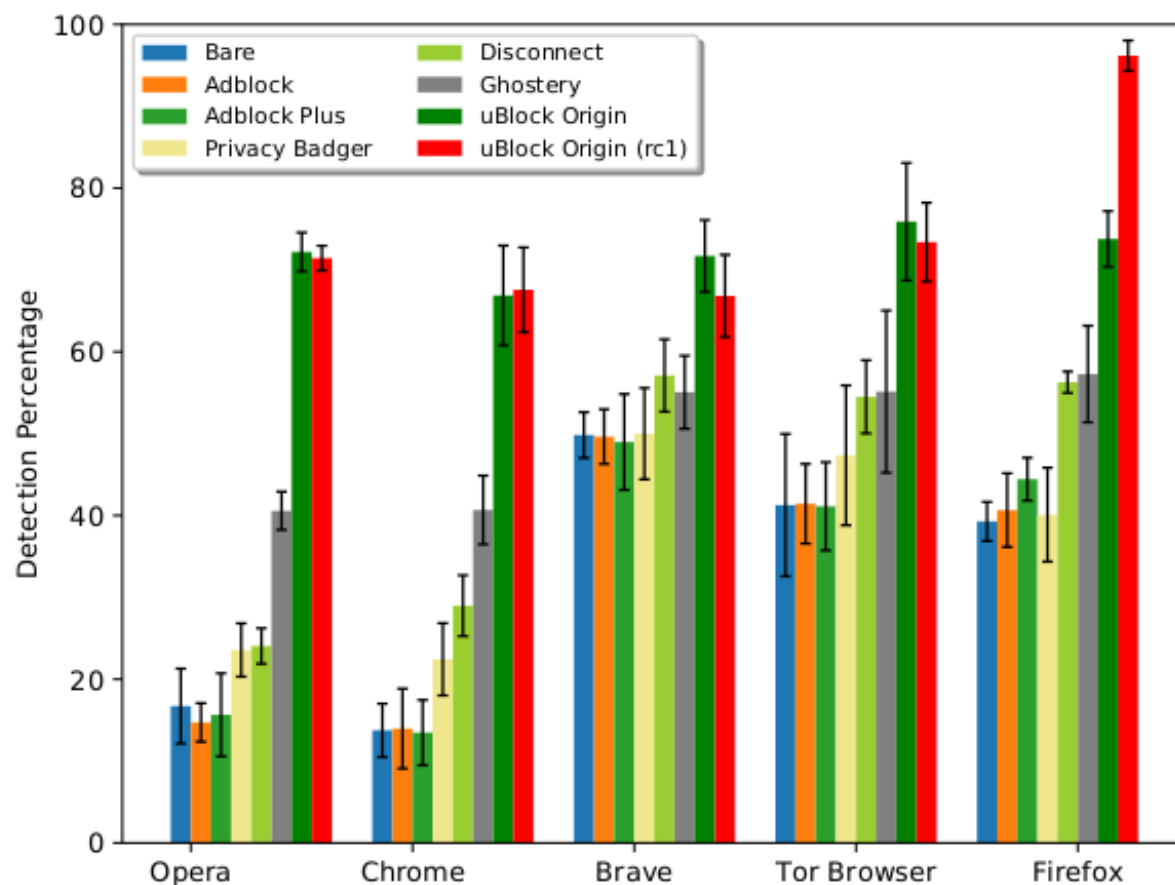
### CNAME-uncloaking

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**

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# 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 and take ownership of technology and surveys related to themselves?**

# **Assignments**

**Due Wednesday 4/20:**

- 1. Lab Assignment #3**
- 2. Pre-Lab reading**



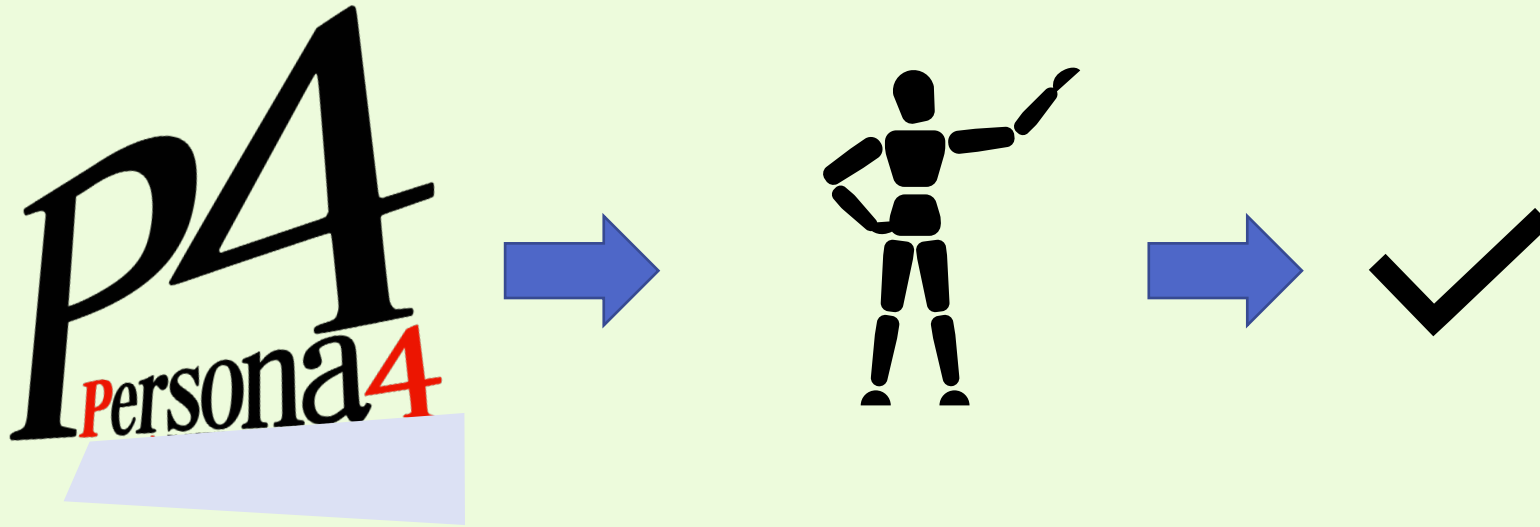
# **Extra Credit Reminders**

**Due Friday 4/25:**

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

**Group Time!**

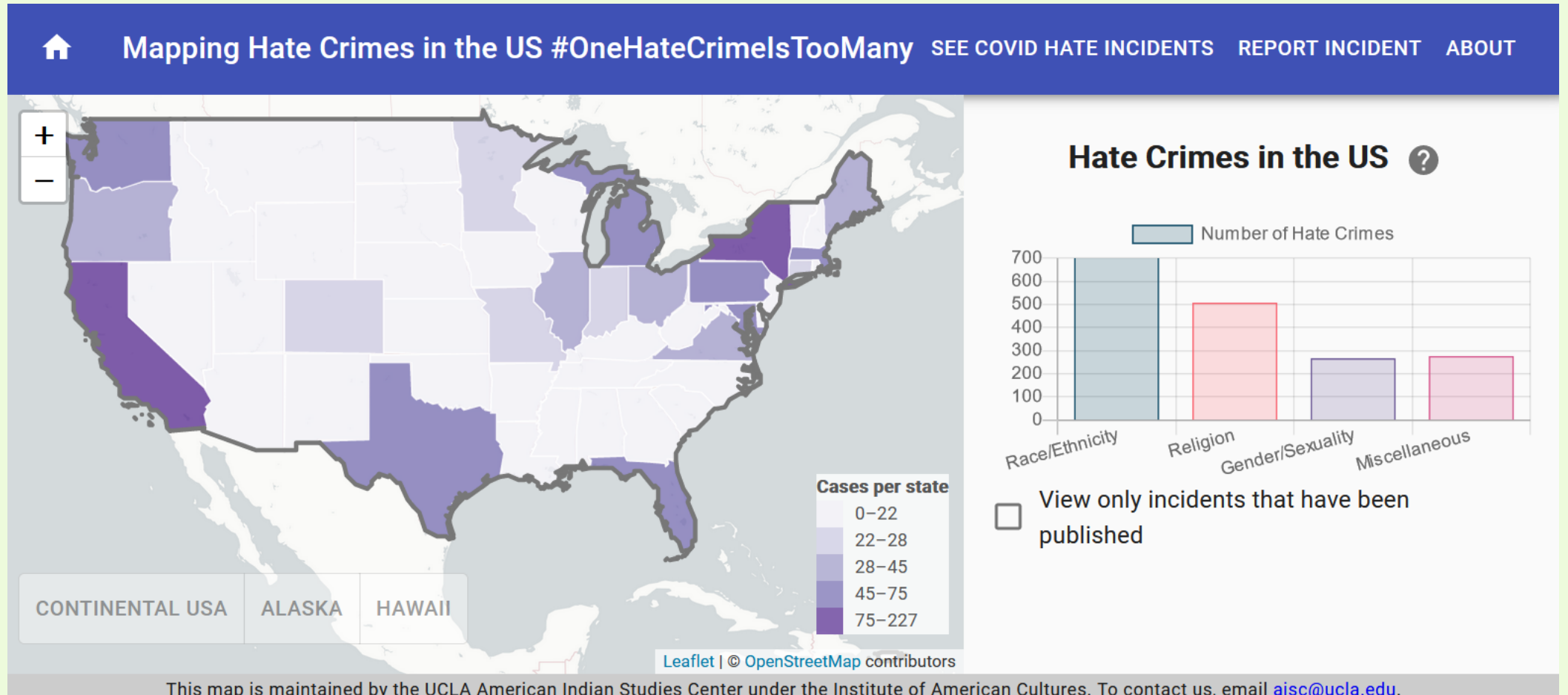
# Memo: Revisiting User Stories



# **Memo: Revisiting User Stories**

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

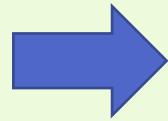
# Memo: Revisiting User Stories



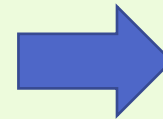
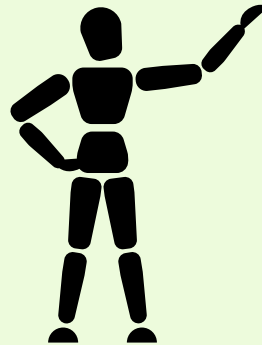
# Memo: Revisiting User Stories

As a person who  
**faced a hate crime**

**P4**  
**Persona4**



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



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

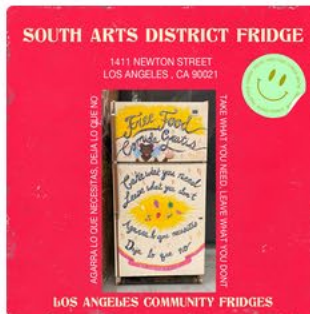


# Memo: Revisiting User Stories

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](#)

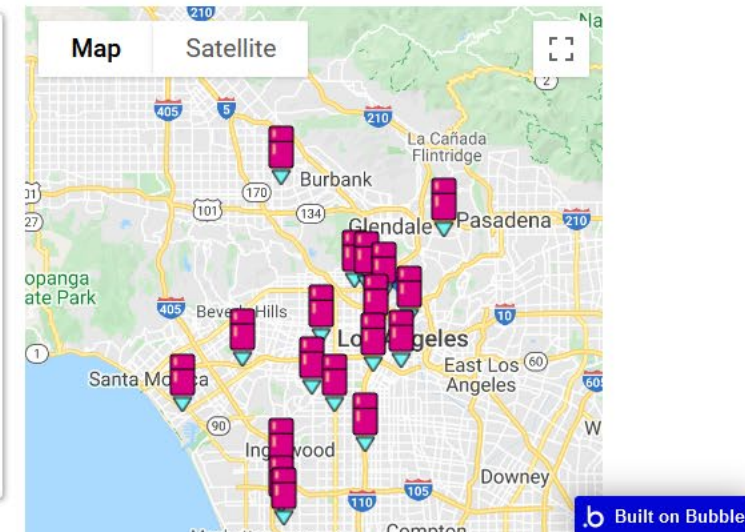
Has

 vegetables | verduras

Needs

 water/drinks | aguas/bebidas

Last check-in 04/11 @ 8:32pm



<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>