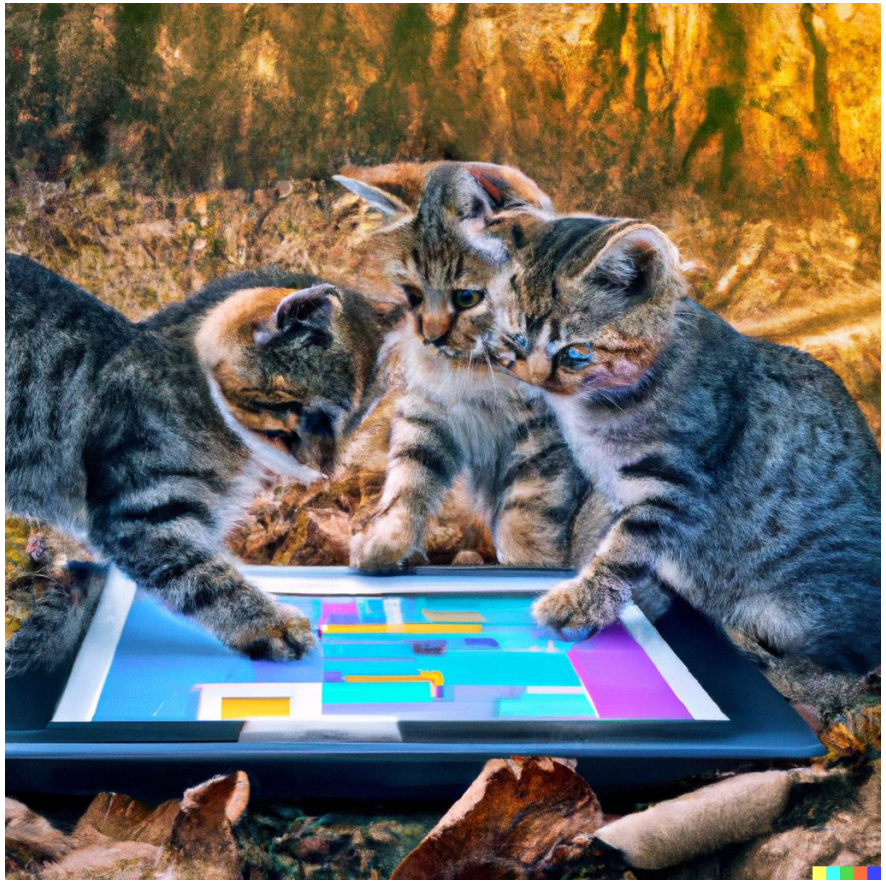
FALL 2023
DSE 12700
VISUAL ANALYTICS

Professor
Madeline Blount
she/her

Week 7
MAPPING! Part II

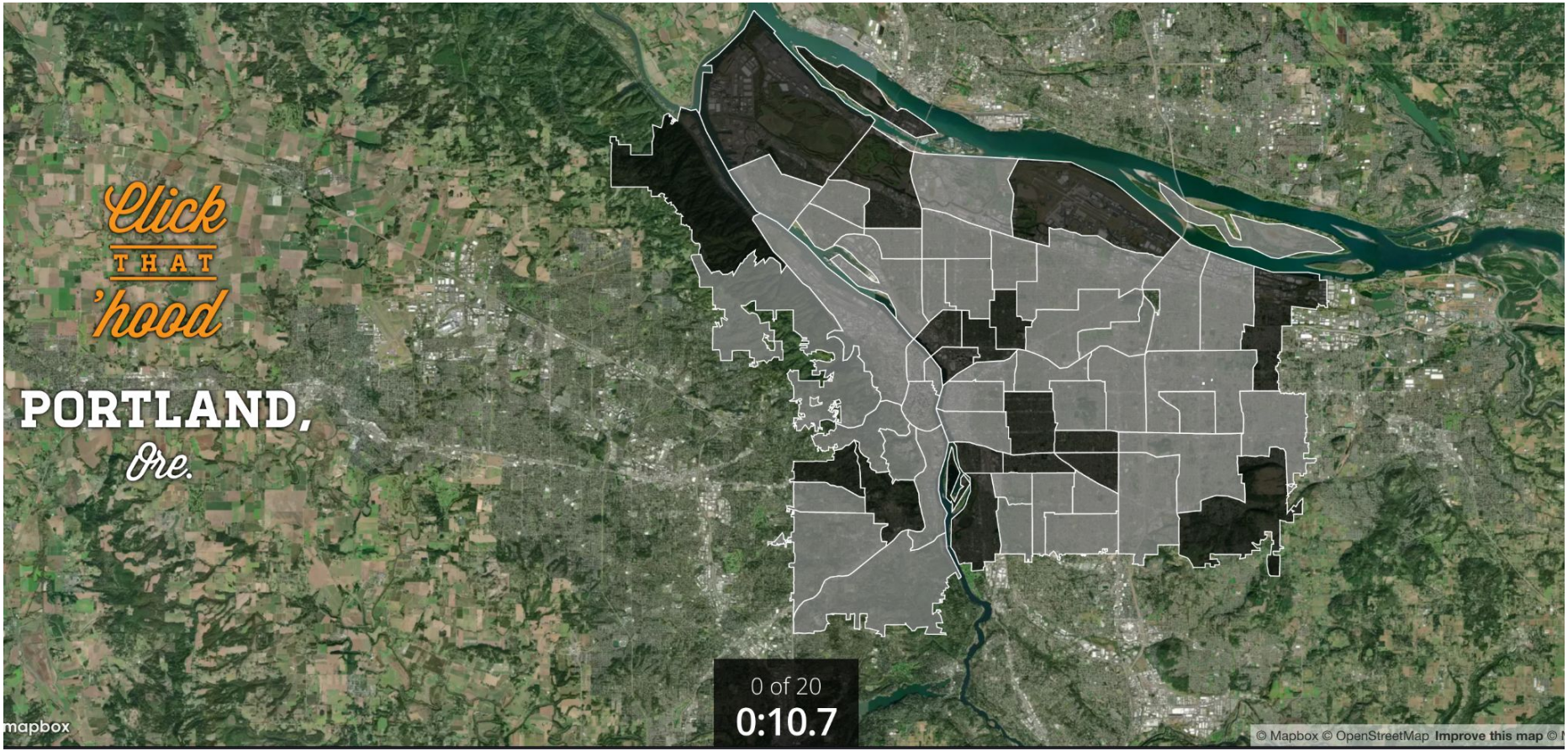


Dall-E2, tabby kittens creating colorful digital charts in a forest, photorealistic style

🤖 LAB ACTIVITY:

- Find group, @ least 3 people

- First solo:
  - Think of a place you know *very well*.
  - Look for an online map of this place
  - Find what is missing, what is wrong, what is lacking, what you can add to this map.
  - Think about *feeling*, what *knowledges* you bring
  - Take notes - sketch
    - ON PAPER or ON COMPUTER
    - FELT.COM


Click
THAT
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PORTLAND,
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0 of 20
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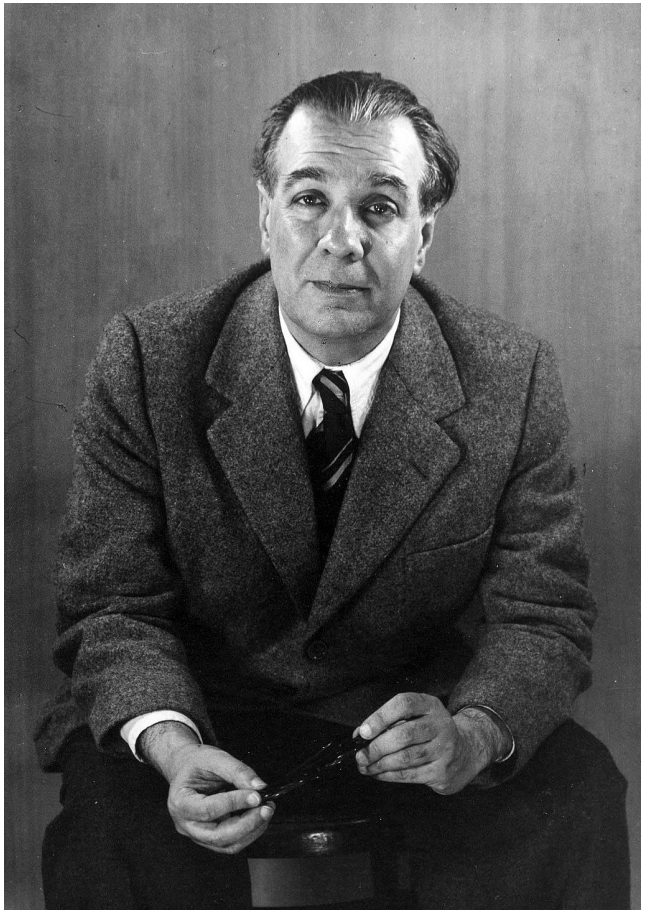
mapbox
© Mapbox © OpenStreetMap Improve this map


0 15 30 kilometres
0 15 30 miles
MEDITERRANEAN OCEAN
Rizokarpasso
Kyrenia
Guzelyurt
NICOSIA
Famagusta
Lefka
Polis
Kakopetria
Larnaca
Paphos
Kourion
Limassol
UN Green Zone
Dhekelia UK sovereign base
Akrotiri UK sovereign base

🤖 LAB ACTIVITY:

- Then group:
  - Share your findings!
  - Discuss w/readings, bringing in *Data Feminism*, Borges, and Caquard readings
  - Be ready to present some group findings, and sketches

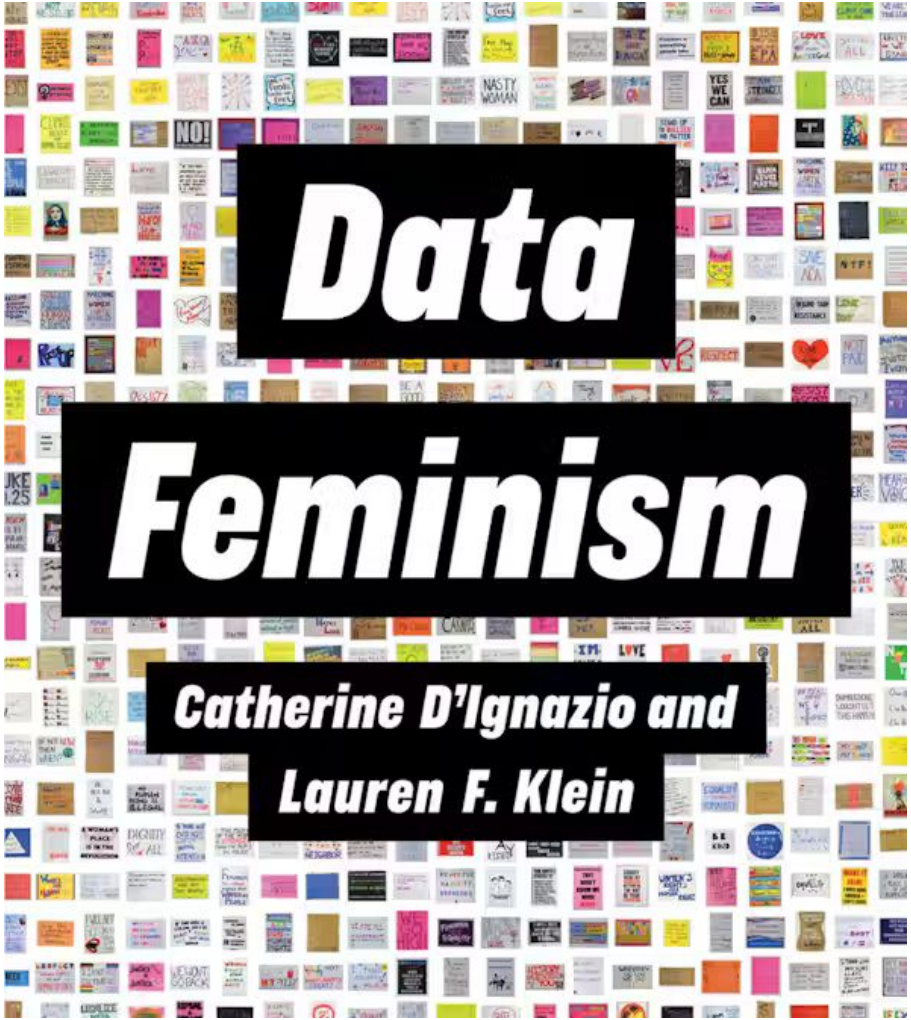


Jorge Luis Borges
Argentinian writer (1899-1956)

“On exactitude in science” …
OR
“On rigor in science” …

Catherine D’Ignazio, MIT

Lauren F. Klein, Emory



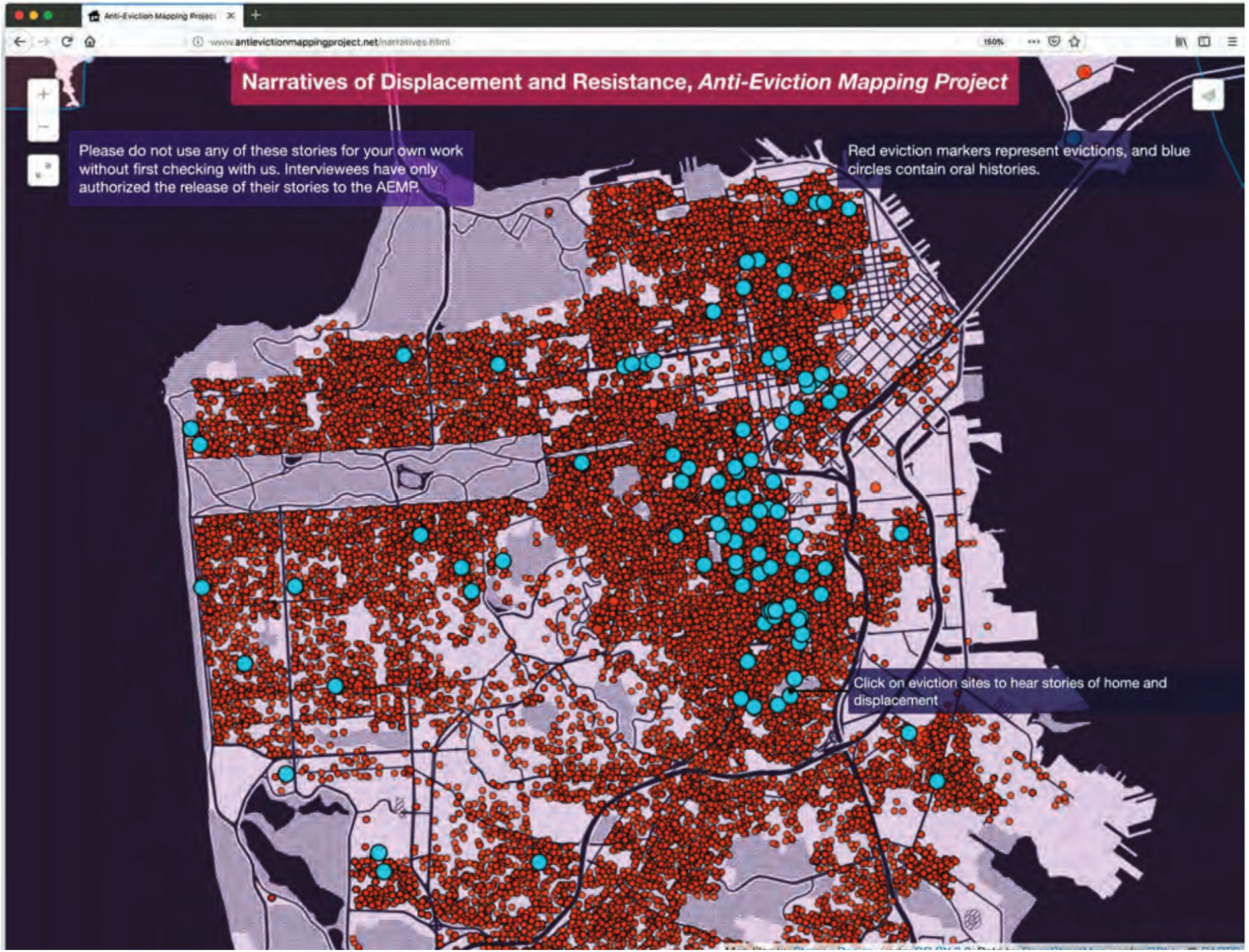
https://antievictionmap.com/about

Anti-Eviction Mapping Project

“STRANGERS IN THE DATASET”

DESIGN JUSTICE: “We center the voices of those who are directly impacted by the outcomes of the design process.”

“COUNTERDATA”
“COUNTERVISUALIZATION”
“COUNTERMAPPING”



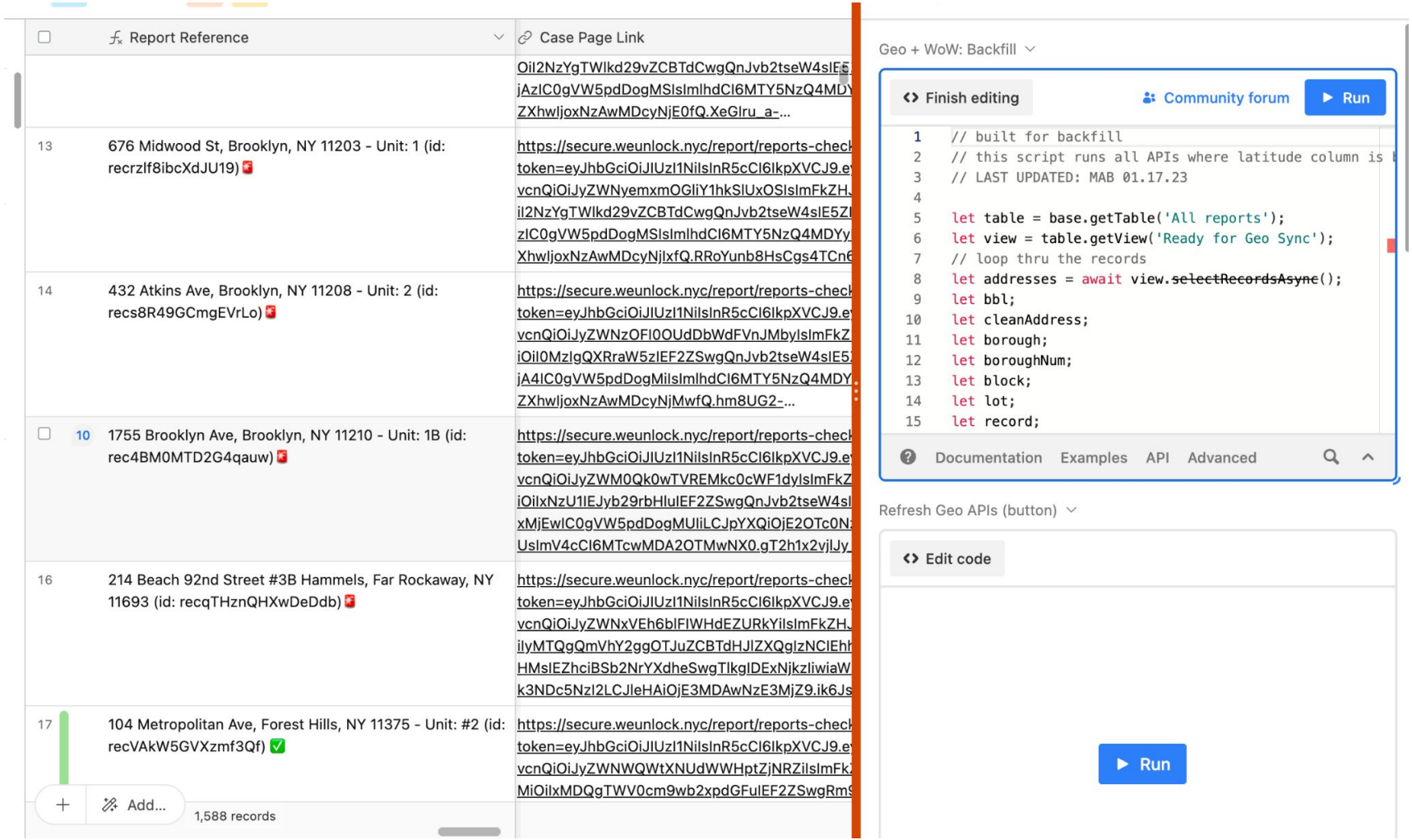
http://www.antievictionmappingproject.net/narratives.html

"the whole city is a pattern, and the pattern is the problem"

Sébastien Caquard
Geographer, Concordia University
(Montreal, CA)

“any map is a political, social and cultural construction” - but we do have a tendency to see a map and the borders drawn on it as “natural”

“Basically the main argument against the use of online mapping technologies is that it reinforces the subordination of indigenous spatial world-views to western technologies and perspectives through those different transformations.” -Caquard

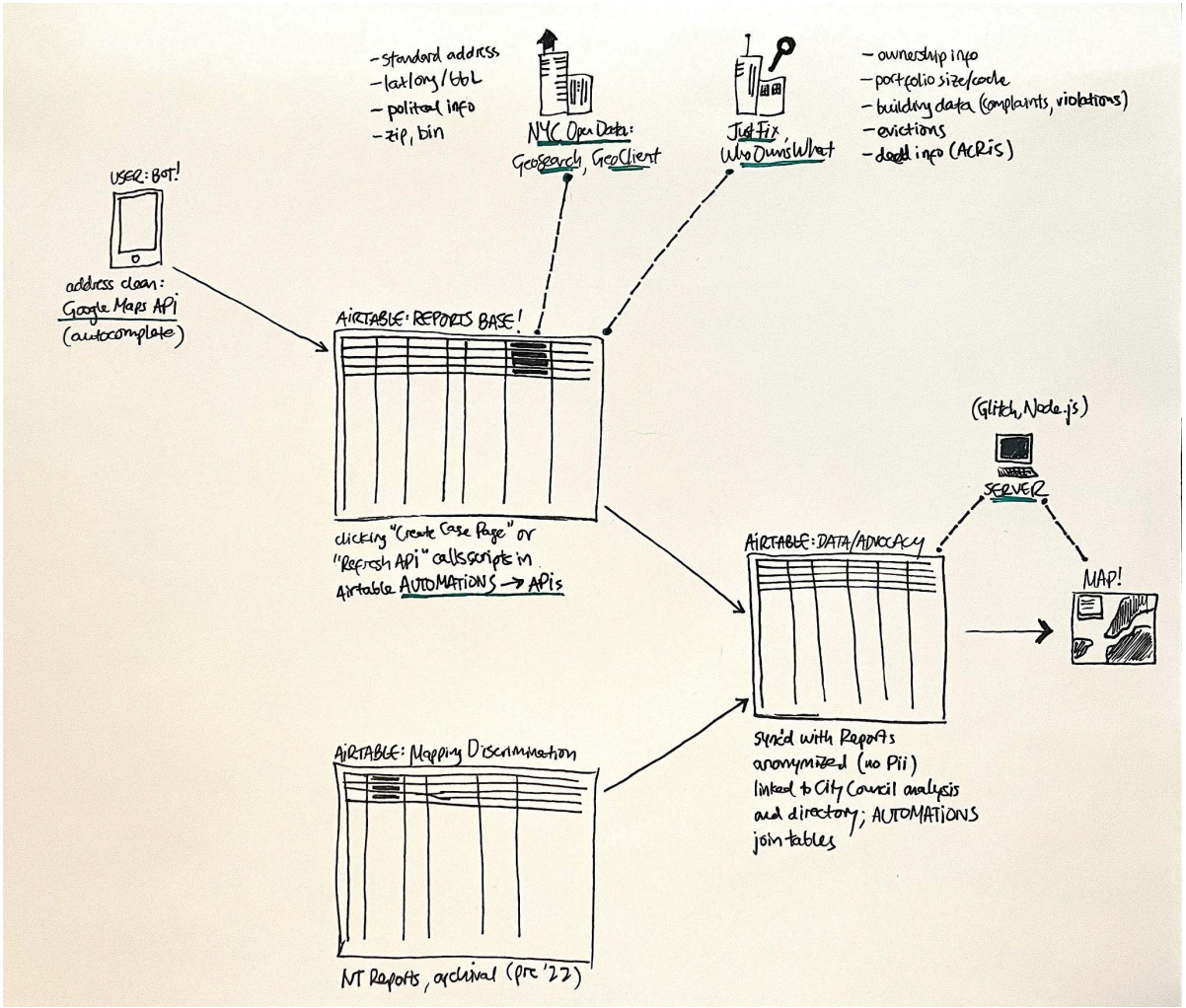

Report Reference
Case Page Link
13
676 Midwood St, Brooklyn, NY 11203 - Unit: 1 (id: recrzIf8ibcXdJU19)
14
432 Atkins Ave, Brooklyn, NY 11208 - Unit: 2 (id: recs8R49GCmgEVrLo)
10
1755 Brooklyn Ave, Brooklyn, NY 11210 - Unit: 1B (id: rec4BM0MTD2G4qauw)
16
214 Beach 92nd Street #3B Hammels, Far Rockaway, NY 11693 (id: recqTHznQHXwDeDdb)
17
104 Metropolitan Ave, Forest Hills, NY 11375 - Unit: #2 (id: recVAkW5GVXzmf3Qf)
Add...
1,588 records
Geo + WoW: Backfill
Finish editing
Community forum
Run
// built for backfill
// this script runs all APIs where latitude column is
// LAST UPDATED: MAB 01.17.23
let table = base.getTable('All reports');
let view = table.getView('Ready for Geo Sync');
// loop thru the records
let addresses = await view.selectRecordsAsync();
let bbl;
let cleanAddress;
let borough;
let boroughNum;
let block;
let lot;
let record;
Documentation
Examples
API
Advanced
Refresh Geo APIs (button)
Edit code
Run

Geo + WoW: Backfill

Finish editing

Ask the community Publish your script

```
24      // check if there's an address
25      // if yes, fetch data from NYC GeoSearch API
26      let apiResponse = await fetch('https://geosearch.planninglabs.nyc/v2/search?text=' + writtenAddress);
27      let data = await apiResponse.json();
28      if (data.features[0]) {
29        // pull variables from GeoSearch response
30        bbl = data.features[0].properties.addendum.pad.bbl;
31        cleanAddress = data.features[0].properties.label;
32        let latitude = data.features[0].geometry.coordinates[1];
33        let longitude = data.features[0].geometry.coordinates[0];
34        let houseNumber = data.features[0].properties.housenumber;
35        let street = data.features[0].properties.street;
36        let borough = data.features[0].properties.borough;
37
38        // other vars for next call, geoClient:
39        let cd;
40        let bin;
41        let zip;
42        let community;
```


- standard address
- lat/long / bbl
- political info
- zip, bin
NYC Open Data:
GeoSearch, GeoClient
JustFix,
WhoOwnsWhat
- ownership info
- portfolio size/cache
- building data (complaints, violations)
- evictions
- deed info (ACRIS)
USER: BOT!
address clean:
Google Maps API
(autocomplete)
AIRTABLE: REPORTS BASE!
clicking "Create Case Page" or
"Refresh API" calls scripts in
Airtable AUTOMATIONS → APIs
(Glitch, Node.js)
SERVER
AIRTABLE: DATA/ADVOCACY
MAP!
AIRTABLE: Mapping Discrimination
synced with Reports
anonymized (no PII)
linked to City Council analysis
and directory; AUTOMATIONS
join tables
NT Reports, archival (pre '22)