

Help non-profits, educational institutions, and other positive impact organizations build with Mapbox tools.

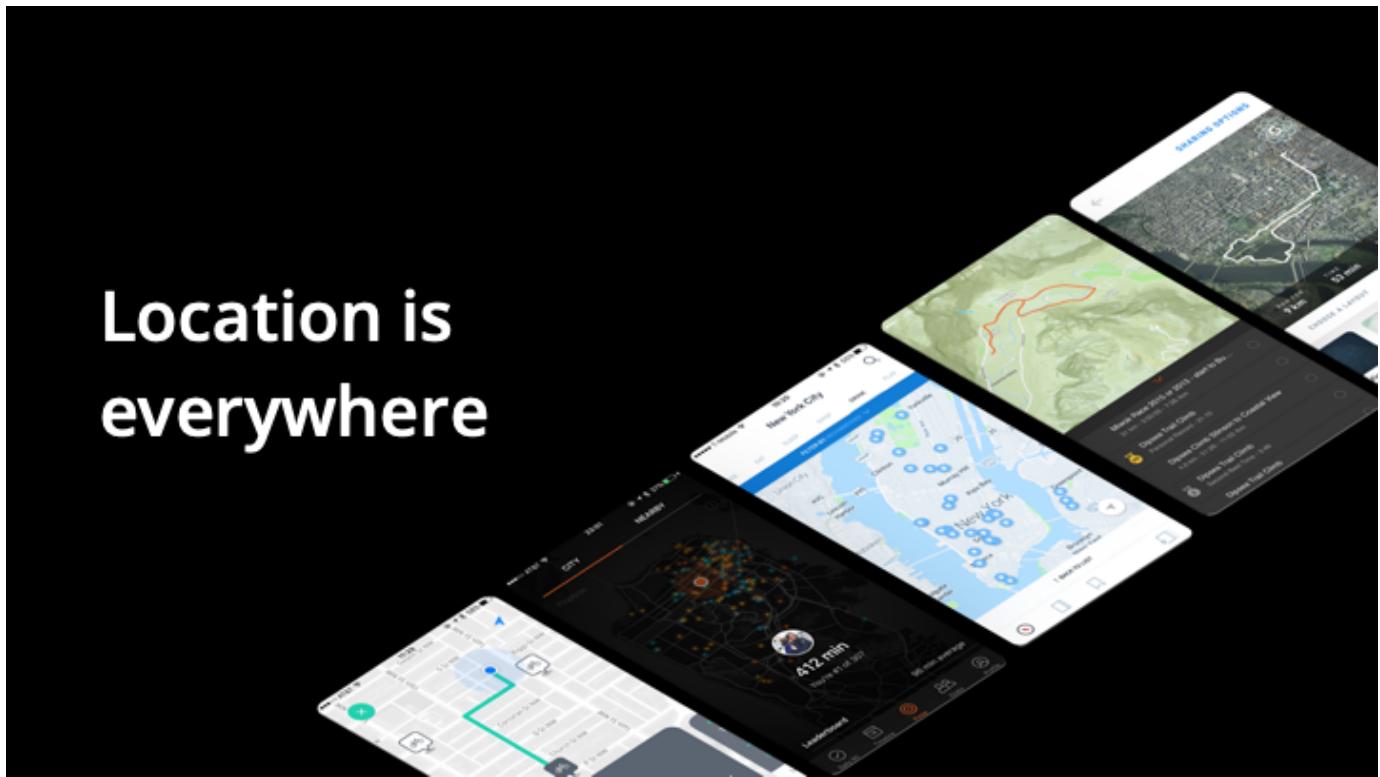


Using data and technology to help solve important problems is core to who we are as a company – before we were Mapbox, we were part of Development Seed, a team working on the ground with organizations like the United Nations, World Bank, and Doctors without Borders to improve programs in places like Peru, Haiti, and Afghanistan.

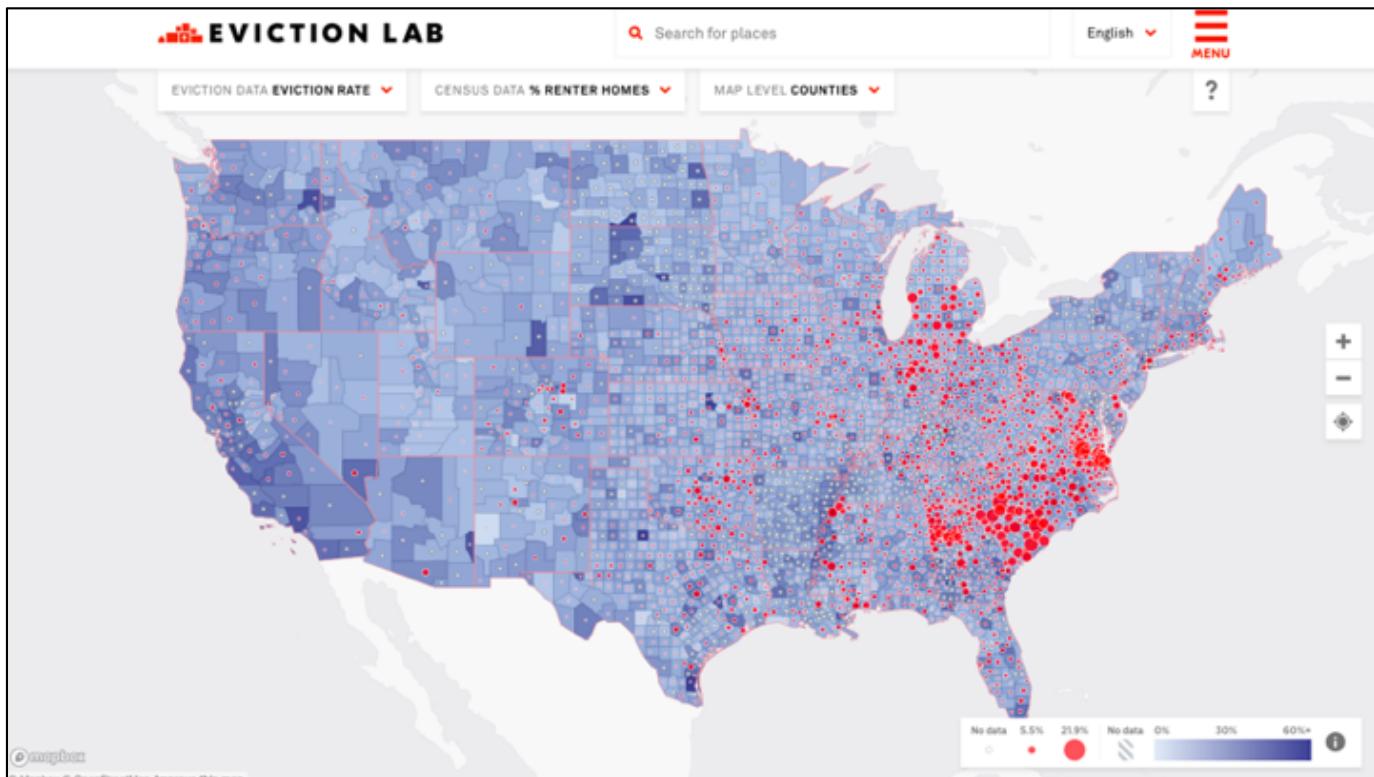
Where the team was working the maps were blank, incomplete, or out of date. We needed better tools for working with location data. The early team were developers so they decided to build better tools! And we built them openly so that we could collaborate with a wide community to continue to improve them and apply them in new ways.

And it caught on, the tools have been growing ever since – now we are a global, 400 person company powering location services that millions of people interact with everyday.

Location is everywhere



- Data is getting bigger and faster by the minute. And location, the spatial context of data, is often key attribute making sense of and communicating data.
- The tools available to present this information are changing - moving from static maps and desktop software to dynamic, interactive maps with live data and on-the-fly analysis

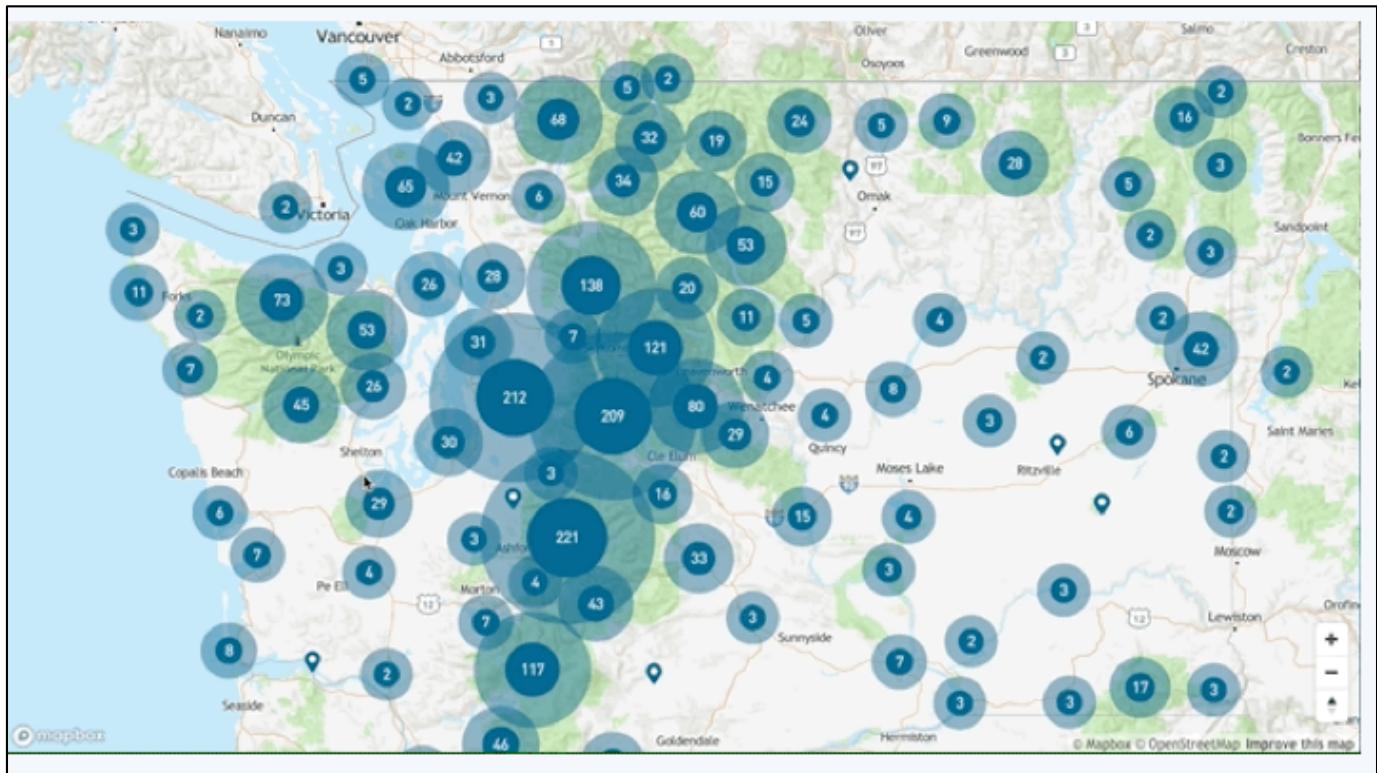


Whether you are visualizing tens of million records of eviction notices across the country...

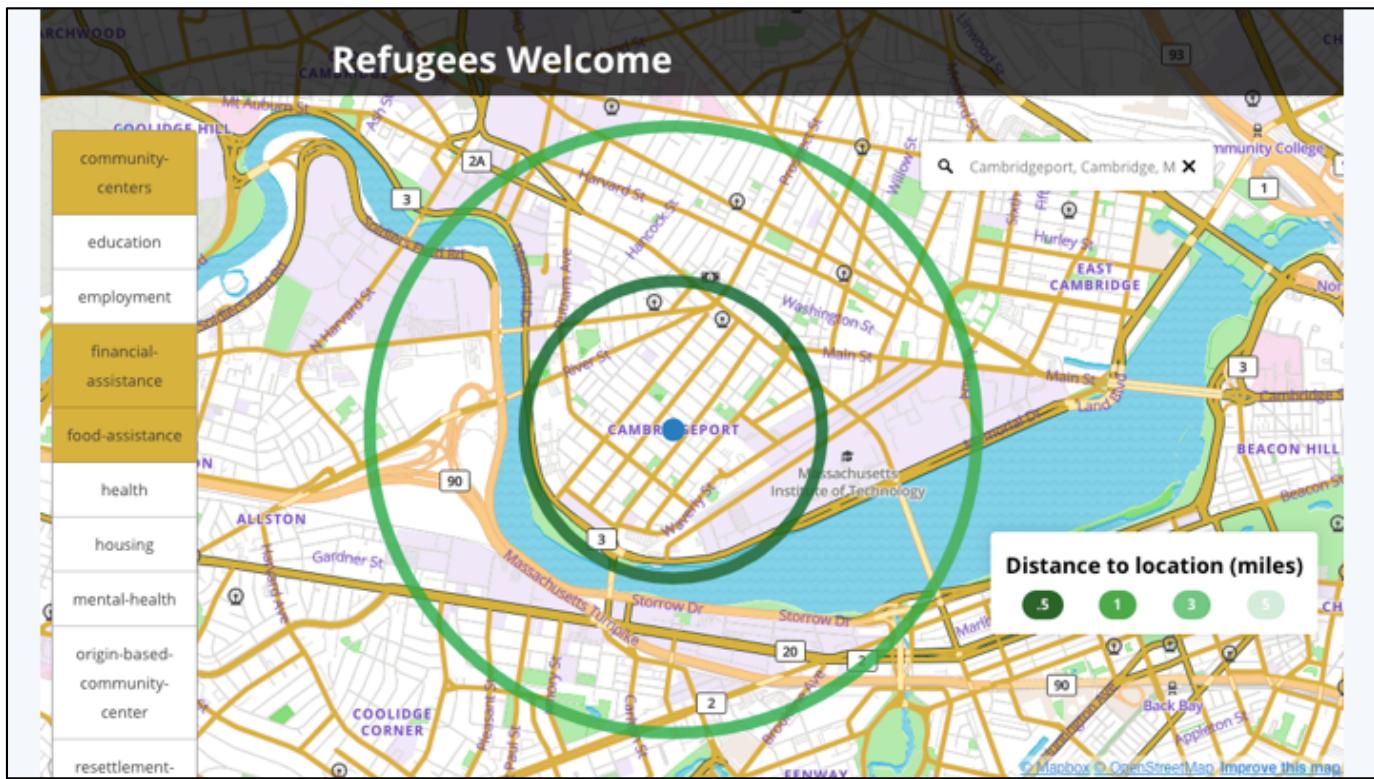
<https://blog.mapbox.com/eviction-lab-map-617edfcfcd73b>

<https://evictionlab.org/map>

<https://github.com/EvictionLab/eviction-maps>



Building an interactive trail finder tools - or event or service finder tool



or event or service finder tool



Creating – like the Washington Post did last year - a multimedia, interactive storytelling tool to contextualize the 1968 riots in D.C. following the murder of Martin Luther King Jr.

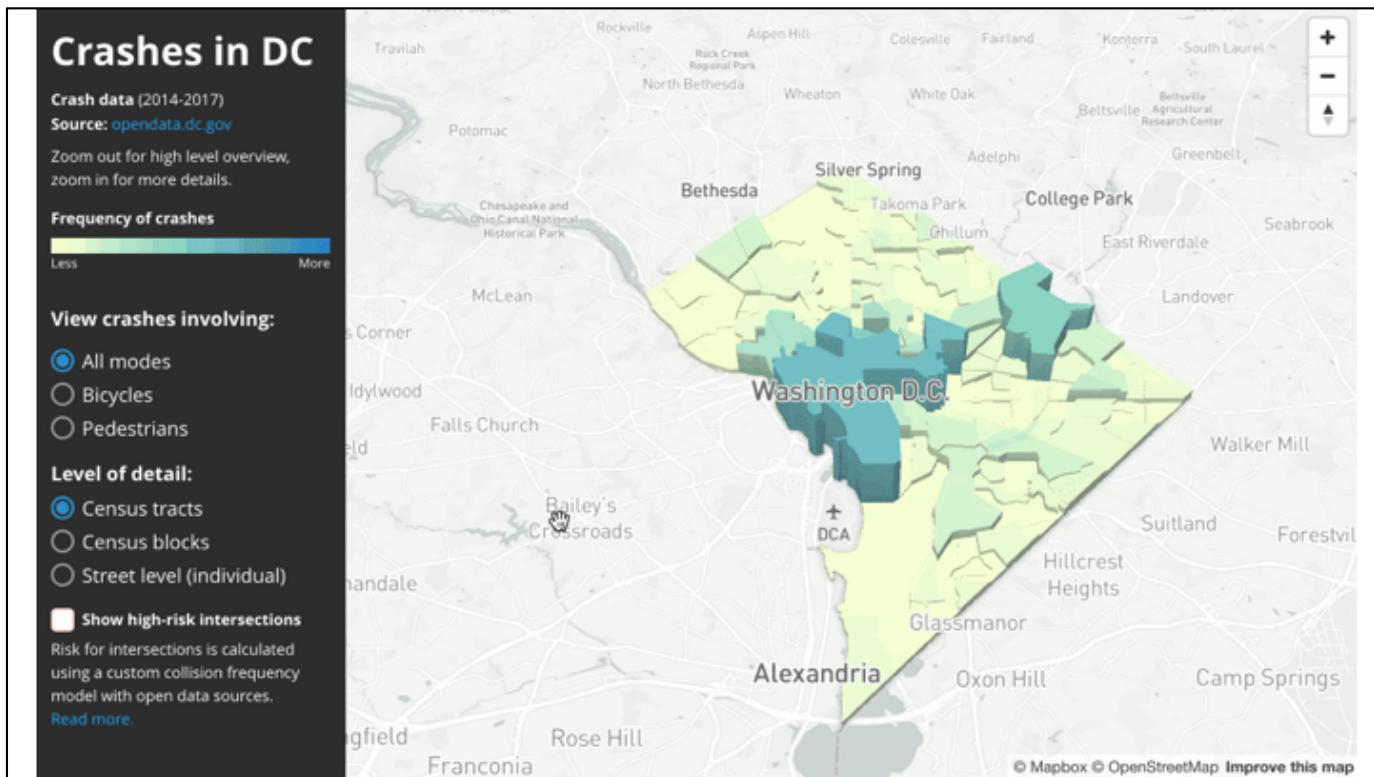
MEET DORY



Dory is an adorable and absentminded blue tang (*Paracanthurus hepatus*). This species has a brilliant yellow tail and a bright blue body. In the Indo-Pacific where the blue tang is found, fishers often call this species 'Letter Six' because of the black

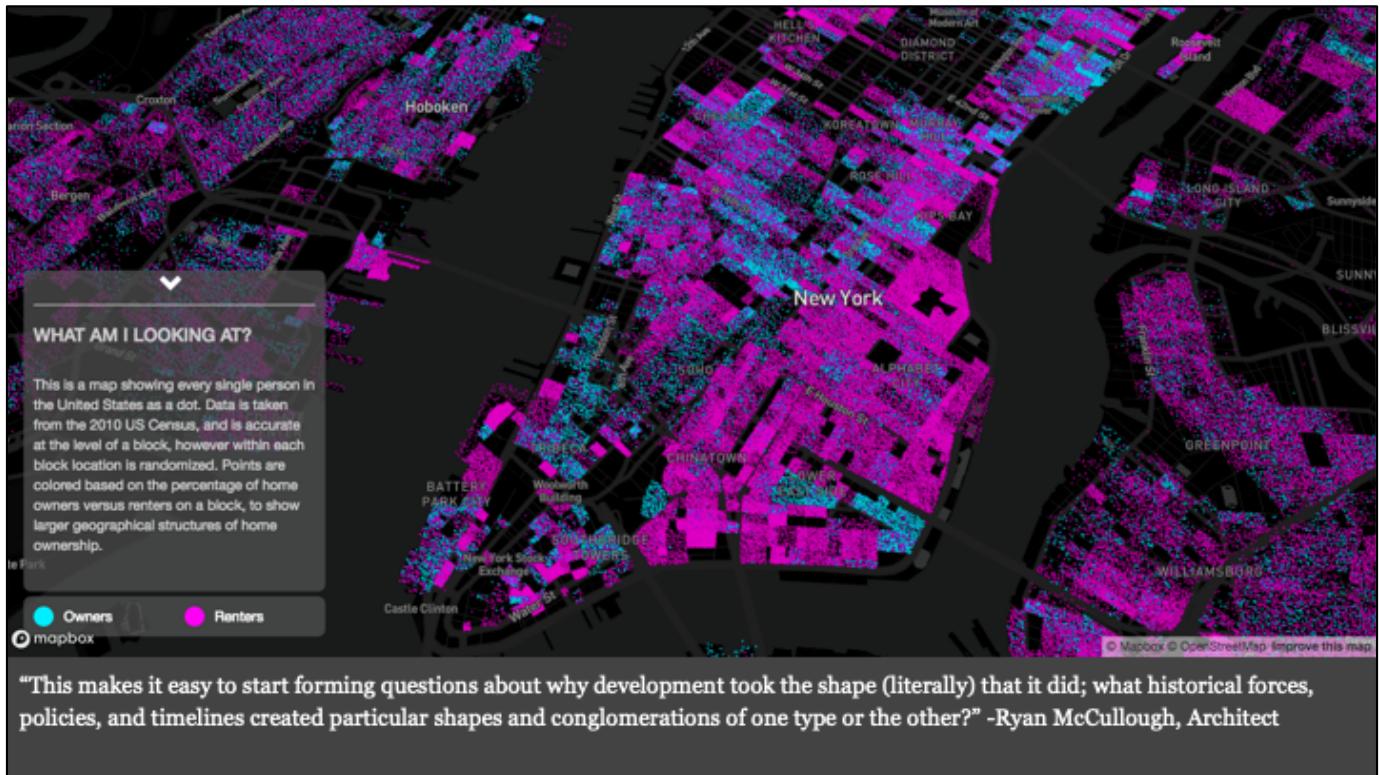


Or flying viewers around a map to tell a story across space – like this one about the tropical fish trade for aquariums



Using traffic data and accident data to identify the most dangerous intersections in D.C.

[Vision Zero project:]



Or digging into insights from census data on every single person in New York City

- What it means to ‘make maps’ is changing - you need different tools than you did a decade ago. Developers and designers want easy, powerful tools for flexibly working with location data, which is making it easier for anyone to work with these tools
- And the skills to build with maps and location data are in demand across all industries, from research to logistics to journalism – including the non-profit sector

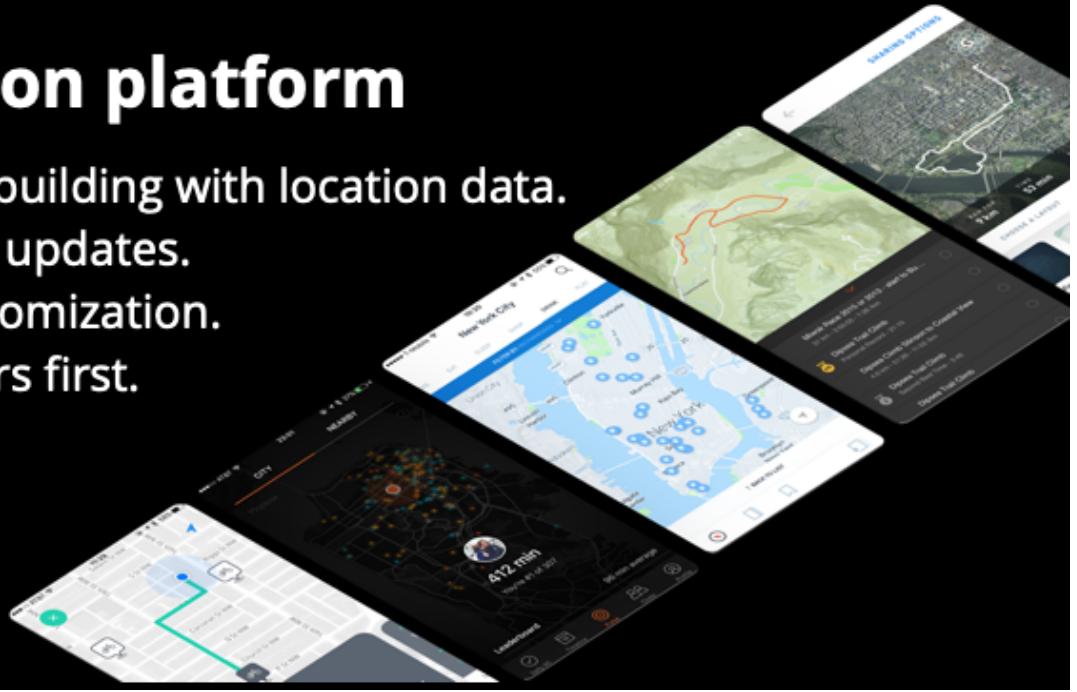
Location platform

Tools for building with location data.

Real-time updates.

Total customization.

Developers first.

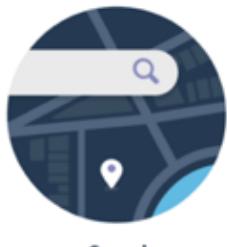


- Mapbox builds and maintains a collection of tools that can be fit together however you need, to build maps like these.

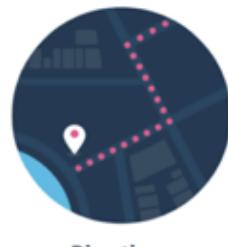
What is Mapbox?



Maps



Search



Directions

Our three main collections of tools are Maps, Search, and Directions.

- Our maps are the underlying map data that you can build with – roads, place names, boundaries etc. – much of which comes from OpenStreetMap
- If you have a database of addresses that you want to plot on a map, we can convert those into lat/long points using our geocoding API
- Or if you're siting a new office or operations site, and want to confirm that a certain number of employees or potential clients live within a 15 minute drive of the proposed site, we can help you do that with our directions and navigation products.



What Mapbox isn't:

- An app
- A GIS
- A live database

And just to be clear,

- Mapbox does not make apps - again, we provide tools for making apps.
- We are not a full GIS, though we have some data creation and editing tools, and you can build analysis tools
- While we have ways for you to store your data (tilesets and datasets), the best way to work with dynamic data is to host this on external databases.



Who builds with Mapbox?

**Developers
Designers
Data pros
Researchers**

**Decision-makers
Communicators
Organizers
Activists**

Anyone here familiar with Mapbox tools?



Cancer
Council
Australia



PATH
DO:△O◆//□□○



AMNESTY
INTERNATIONAL



GREENPEACE



Last year we directly supported over 160 non-profit organizations or educational projects, of all different sizes

And that is only counting the ones who directly contacted us – teams al over the place are building with these tools



Mentorship and skilled
volunteers



Discounts and tailored
accounts



Special features and
permissions



Promotion and partnership

We work in close collaboration with teams and individuals who want to learn and use our tools. Our MO is to help overcome barriers, including cost and technical capacity challenges.

Building with Mapbox

The rest of this workshop is going to be an hands-on orientation to building with Mapbox – specifically building an interactive web map.

Mapbox Studio



We'll start with Mapbox Studio – which is a browser-based Graphical User Interface, similar to graphic design tools, that allows you to style and build custom base map styles – no code required.

Use these custom styles in:

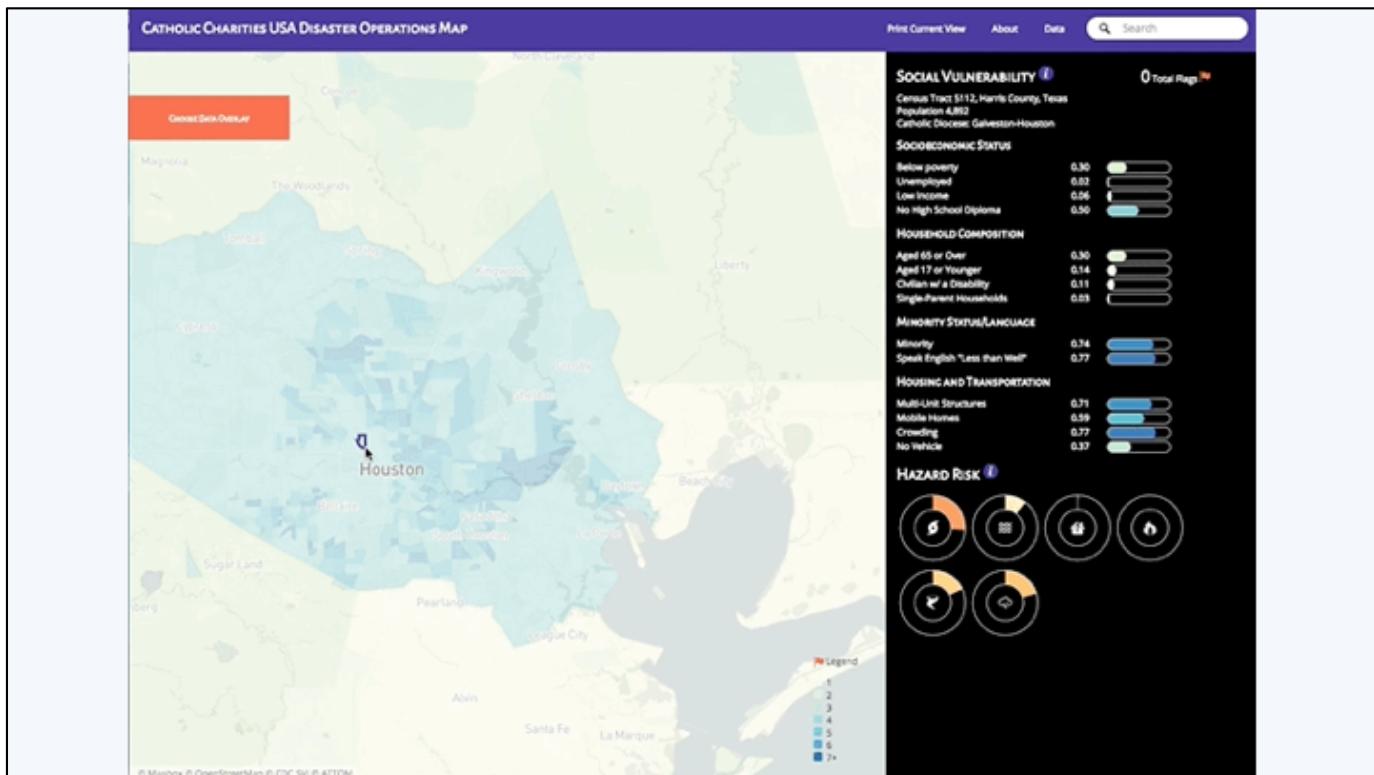
- [Interactive maps](#)
- [Print / static maps](#)
- [In other tools \(QGIS, ArcMap, Tableau, PowerBI\)](#)



Today we'll build our own simple stand-alone web map, using Mapbox GL JS, our Javascript library for adding interactivity – like this zoom-based cluster example here.

We will get into some coding, but it is designed to be accessible for all levels.

[\[https://www.mapbox.com/mapbox-gl-js/example/cluster/\]](https://www.mapbox.com/mapbox-gl-js/example/cluster/)



With the pieces we'll build with today, you could create something like this data dashboard to inform decision-making and operations.

This is a tool made by volunteers for the Catholic Charities USA to understand data about disaster vulnerability of different populations (calculated from US census data and data about natural disasters).

[The darker blue, the more vulnerable and underserved the population in that area is. Users can hover over the map to explore the data behind the vulnerability rating in detail. When Hurricane Harvey happened, CCUSA used this tool to help inform their operations so they could respond in areas that were likely the most vulnerable and underserved.]

<https://blog.mapbox.com/mapping-for-disaster-relief-after-hurricane-harvey-f547160e1fc>

[https://ccusa.github.io/Disaster_Vulnerability_Map/#8.96/29.5523/-95.0359]
[\[https://github.com/ccusa/Disaster_Vulnerability_Map \]](https://github.com/ccusa/Disaster_Vulnerability_Map)



A growing library of step-by-step tutorials: <https://www.mapbox.com/help/tutorials/> - and let us know if you have any requests for new ones

Mapbox Live sessions (Webinars): <https://www.mapbox.com/live/>

Youtube 'Learn from Mapbox' playlist:

<https://www.youtube.com/playlist?list=PL86WBCjNmqh7AE AeAFdZPJWH4ufrHE8Ya>

Other workshop materials: <https://github.com/mapbox/workshops>

bit.ly/MapboxGoodTechFest



mapbox.com/community

community@mapbox.com

#VizRisk

A disaster data and map design challenge
May 15-July 15, 2019



understandrisk.org/vizrisk