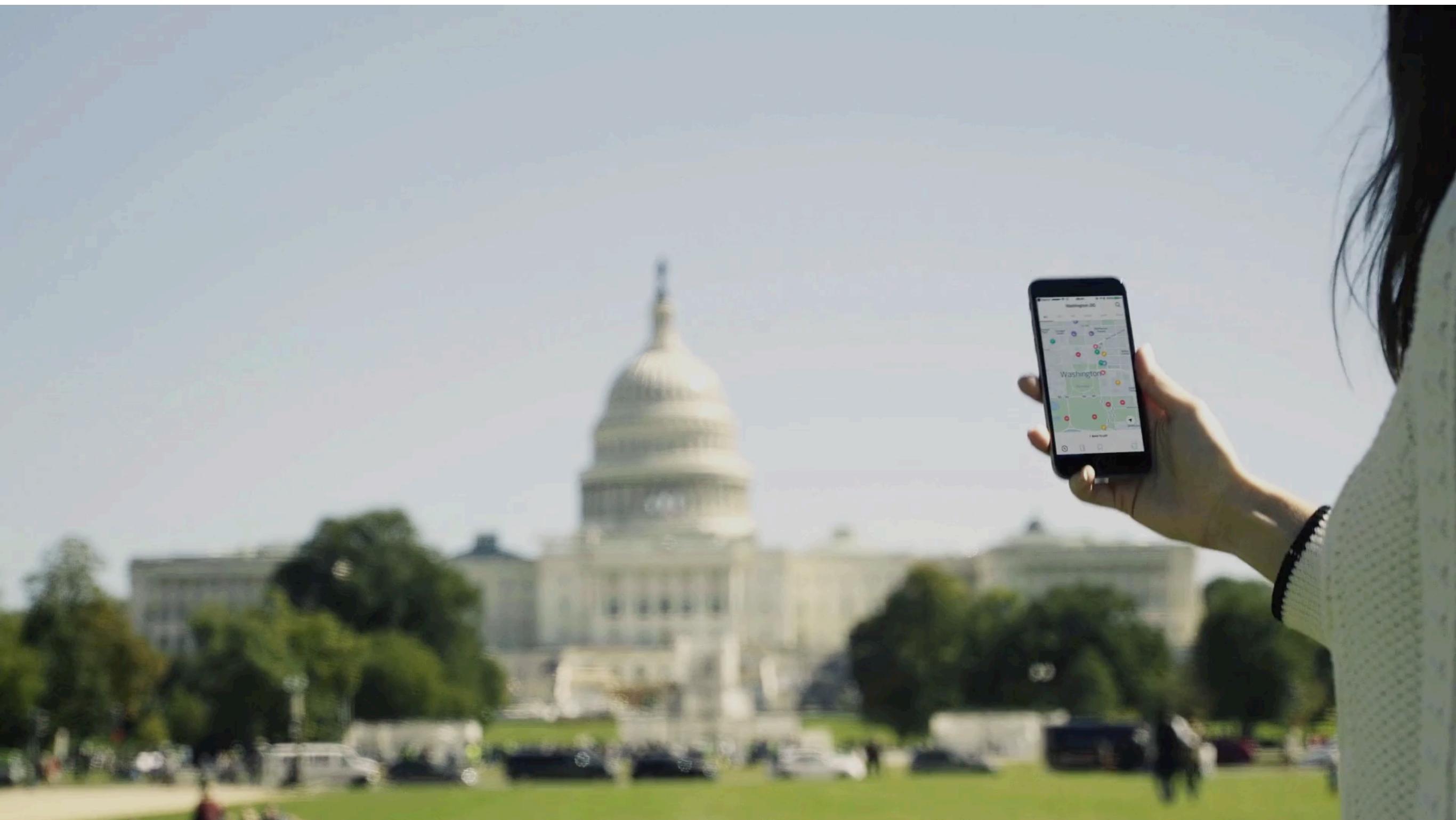


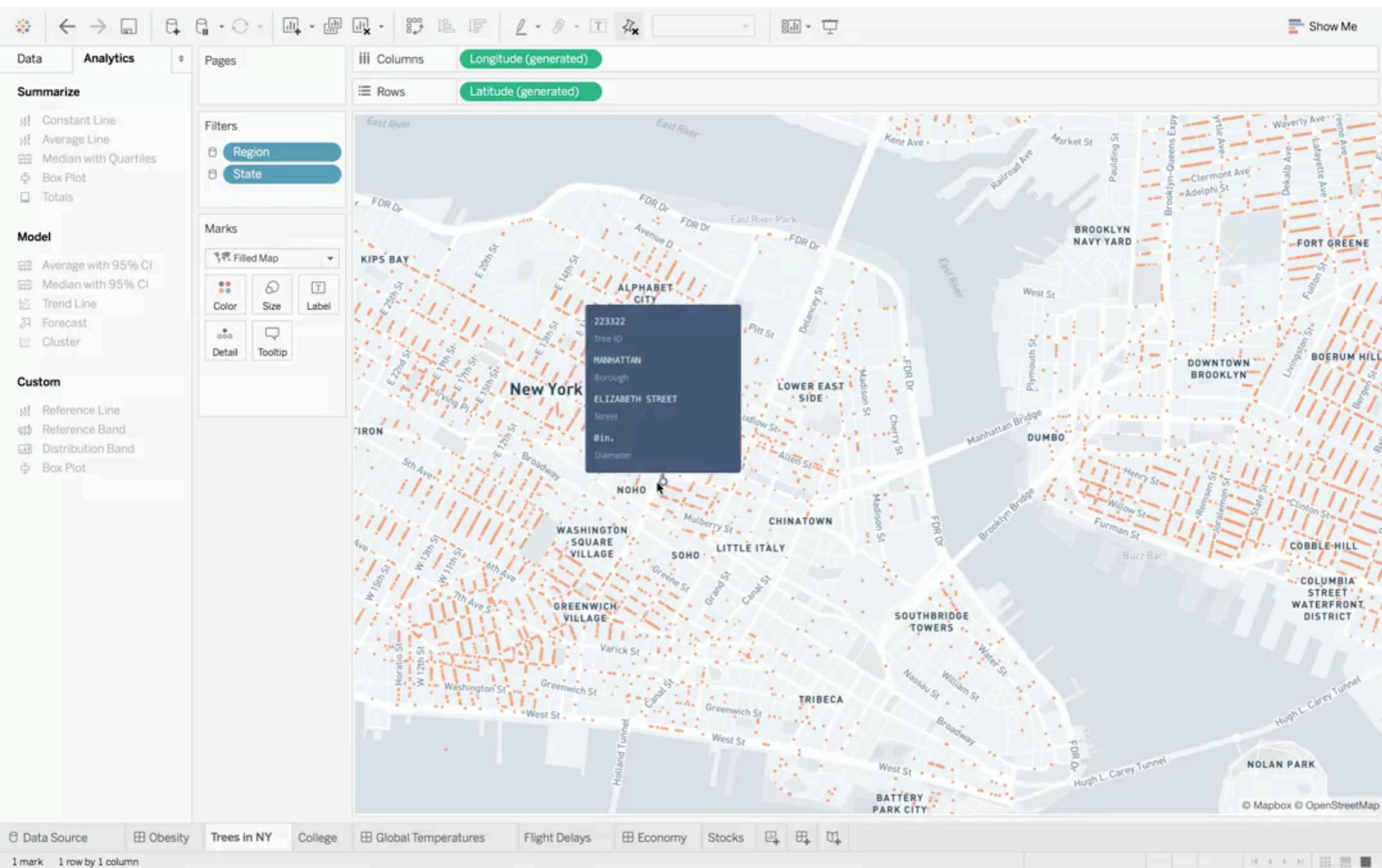
# Getting started with Mapbox Studio

11th April, 2017 | Webinar, HOT community

# Hello from *Mapbox*!

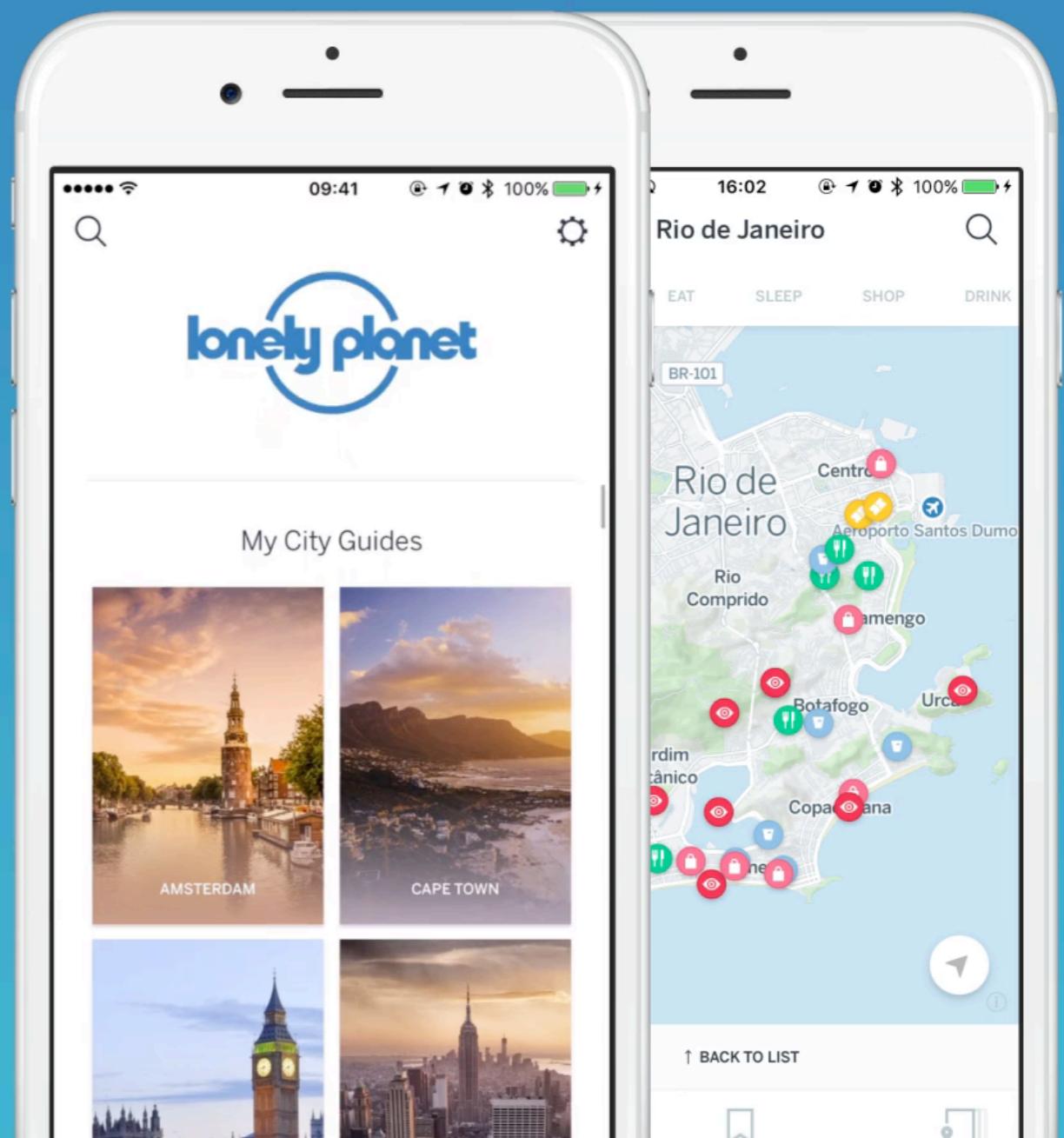


# BI Dashboards using Tableau



# Mobile apps like Lonely Planet

lonely planet + Mapbox



# Maps in Games!

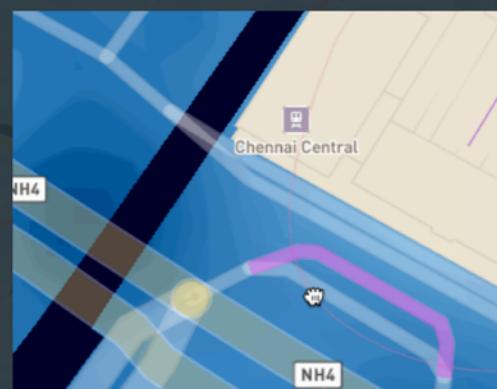


# Flood Map for Chennai

## Flooded Streets

சென்னை

165 inundated roads reported



This is a crowdsourced effort to map inundated roads in Chennai. Report a flooded street by zooming into the map and clicking it. All the data is open.

### Flood Layers

Vulnerable and Inundated areas

● Flood relief camps (Including closed)

### Affected Areas (reset)

Aminjikarai

Velachery

Mudichur



# Print Maps for Nepal



# Visualizing changes in OSM

CHANGESET: 47393150 (7 DAYS AGO)

OSM OSMCha Achavi OSM HV JOSM

USER: Tinez

OSM HDYC Discussions Comments

FILTER BY ACTION

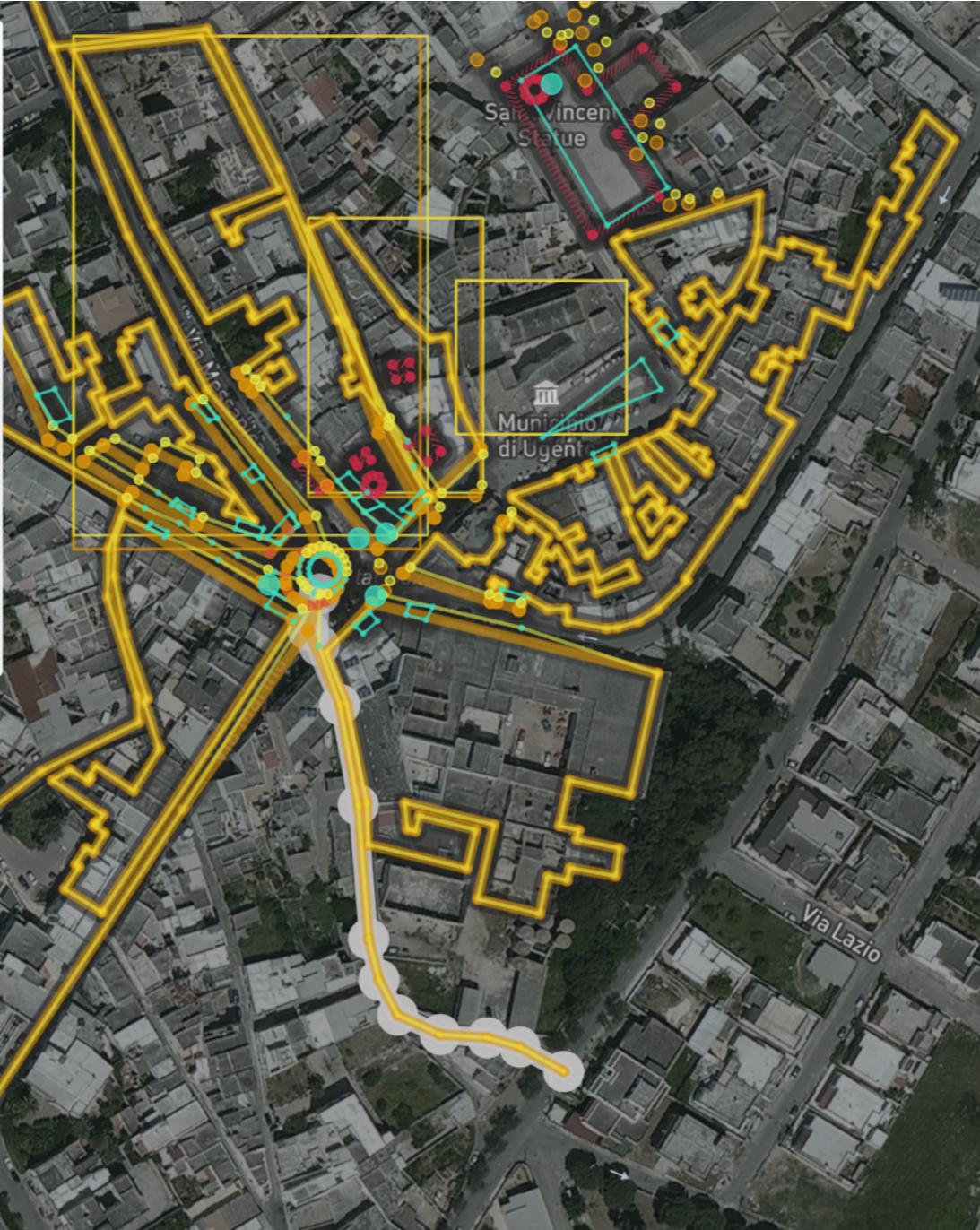
Added   Modified   Deleted 

FILTER BY TYPE

Nodes  Ways  Relations

MAP STYLE

Satellite  Streets  Dark



San Vincent Statue

Municipio di Ugento

Centralina Telecom

Via Lazio

WAY: 384352288

OSM Deep History

version	1	2
timestamp	2015-12-04T16:45:34Z	2017-04-02T20:50:42Z
changeset	35751580	47393150
uid	1960233	5569703
user	corfede	Tinez

TAG DETAILS

oneway	yes	yes
highway	residential	residential

© Mapbox © OpenStreetMap Improve this map © DigitalGlobe

<http://osmlab.github.io/changeset-map/#47605987>

& more!

<https://www.mapbox.com/showcase/>

<https://www.mapbox.com/blog/>



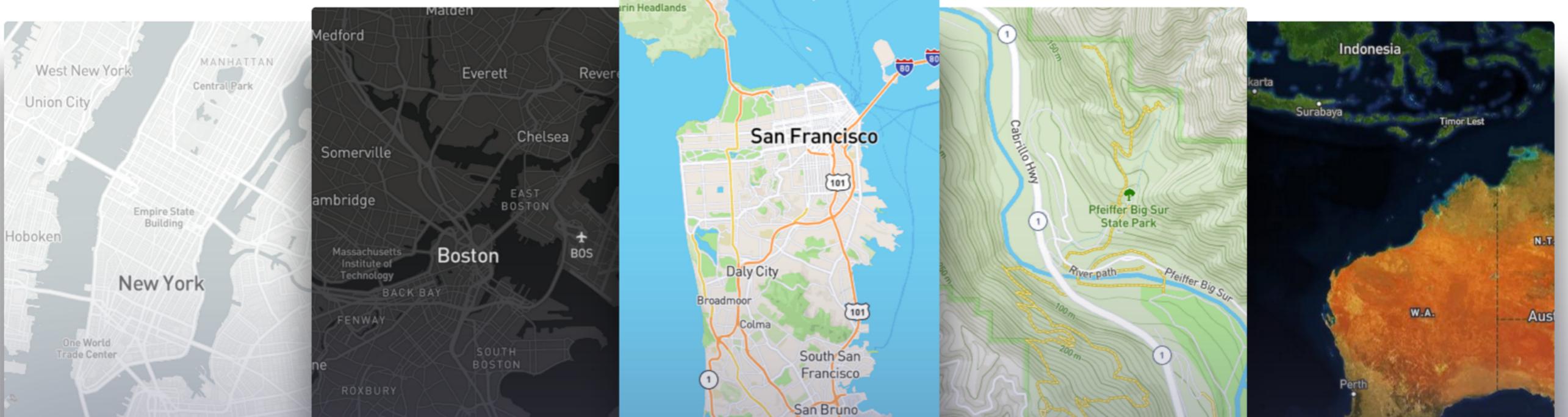
# Webinar Plan

1. Introduction to Map Design & Mapbox Studio
2. Extracting OSM Data from Overpass Turbo
3. Creating a tileset in Mapbox Studio
4. Styling the data in Mapbox Studio
5. Short break + Q&A
6. Building an interactive prototype using Mapbox GL JS
7. Doing more with custom icons & styling
8. Q&A

# The world of Maps



French Air Network (1938) | David Rumsey



# Mapbox Studio Template Styles

<https://www.mapbox.com/maps/>

<http://a.mbx.io/StudioWebinarHOT>

**What do you want to  
SHOW?**

# Find tags in OpenStreetMap Wiki

Tag:amenity=hospital - OpenStreetMap Wiki

Rasagy

wiki.openstreetmap.org/wiki/Tag:amenity%3Dhospital

Page Discussion Read View source View history Search OpenStreetMap W

## Tag:amenity=hospital

(Redirected from [Hospital](#))

This page related to emergency services is being considered for cleanup. See [WikiProject Emergency Cleanup](#). [Discussion]

Available languages – Tag:amenity=hospital

čeština · Deutsch · English · español · français · italiano · português · русский · 日本語

Other languages – Help us translate this wiki

**amenity=hospital** is used for hospitals, i.e. institutions for health care providing treatment by specialised staff and equipment, and typically providing nursing care for longer-term patient stays. In contrast, a medical centre with doctors for outpatient care only should be tagged **amenity=clinic**, and an individual doctor's office as **amenity=doctors**.

Contents [hide]

amenity = hospital



<http://wiki.openstreetmap.org/wiki/Tag:amenity%3Dhospital>

# Query OSM using Overpass Turbo

The screenshot shows the Overpass Turbo interface. On the left, there is a code editor window displaying an Overpass query:

```
1  /*
2  This has been generated by the
3  overpass-turbo wizard.
4  The original search was:
5  "amenity=clinic || amenity=hospital"
6  */
7  [out:json][timeout:25];
8  // gather results
9  (
10    // query part for: "amenity=clinic"
11    node["amenity"]="clinic"({{bbox}});
12    way["amenity"]="clinic"({{bbox}});
13    relation["amenity"]="clinic"
14    ({{bbox}});
15    // query part for: "amenity=hospital"
16    node["amenity"]="hospital"({{bbox}});
17    way["amenity"]="hospital"({{bbox}});
18    relation["amenity"]="hospital"
19    ({{bbox}});
20  );
21  // print results
22  out body;
23  >;
24  out skel qt;
```

On the right, there is a map of Chirisa National Park. A modal window titled "Query Wizard" is open, containing the query "amenity='hospital' || amenity='clinic'". Below the query, there is a description of the wizard and some usage examples:

The **wizard** assists you with creating Overpass queries. Here are some usage examples:

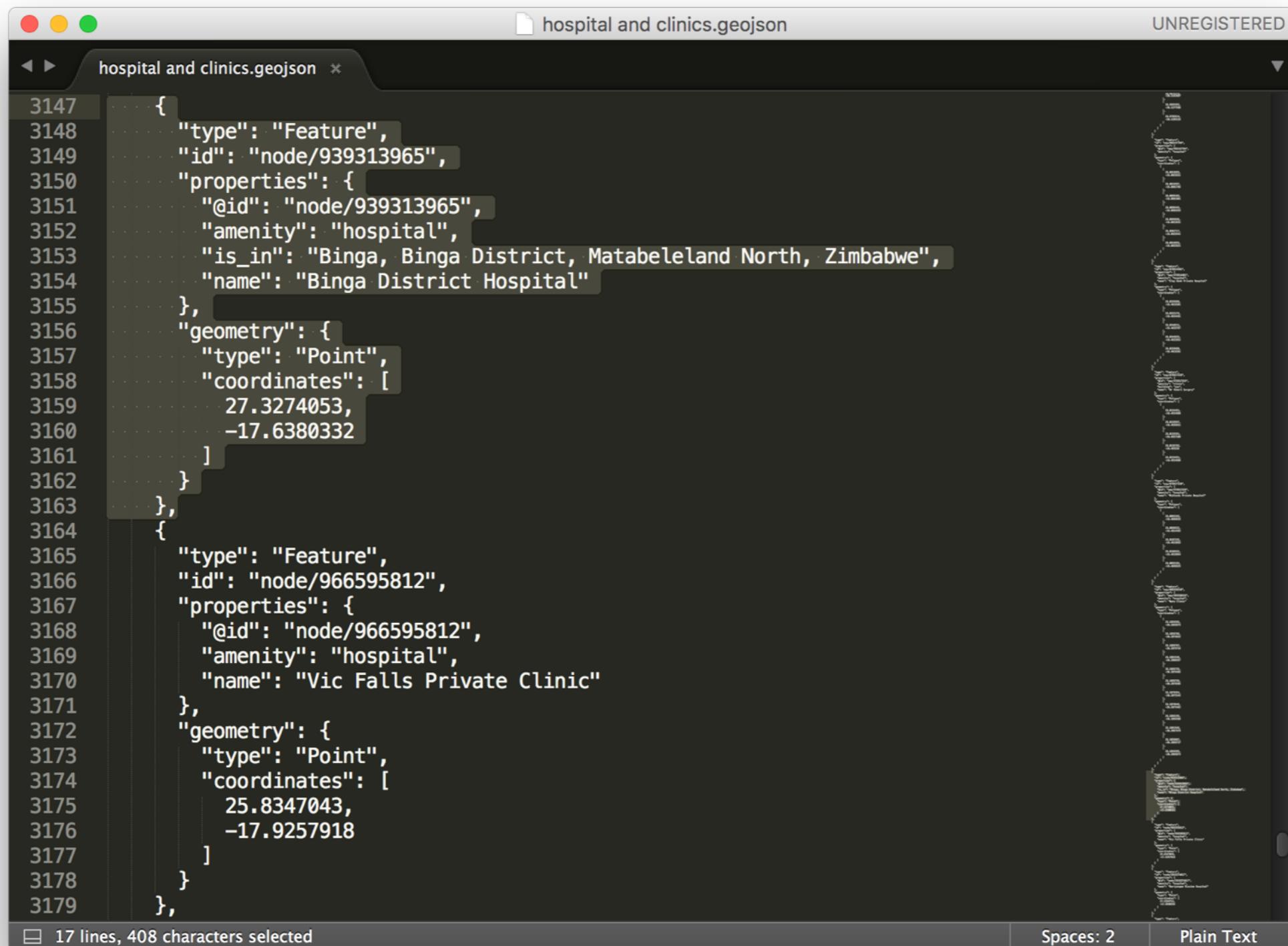
- Drinking Water
- highway=\* and type:way
- tourism=museum in Vienna

At the bottom of the wizard window are three buttons: "build query", "build and run query", and "cancel".

At the bottom of the Overpass Turbo interface, there is a status bar with the following information:

Loaded – nodes: 62, ways: 11, relations: 0  
Displayed – pois: 4, lines: 0, polygons: 11

# Export as GeoJSON



The screenshot shows a terminal window with a dark background and light-colored text. The title bar reads "hospital and clinics.geojson". The window contains a JSON object representing two hospital locations. The first location is "Binga District Hospital" in Binga, Binga District, Matabeleland North, Zimbabwe. The second location is "Vic Falls Private Clinic" in Vic Falls. Both entries include their respective coordinates as Point geometry.

```
3147  {
3148      "type": "Feature",
3149      "id": "node/939313965",
3150      "properties": {
3151          "@id": "node/939313965",
3152          "amenity": "hospital",
3153          "is_in": "Binga, Binga District, Matabeleland North, Zimbabwe",
3154          "name": "Binga District Hospital"
3155      },
3156      "geometry": {
3157          "type": "Point",
3158          "coordinates": [
3159              27.3274053,
3160              -17.6380332
3161          ]
3162      }
3163  },
3164  {
3165      "type": "Feature",
3166      "id": "node/966595812",
3167      "properties": {
3168          "@id": "node/966595812",
3169          "amenity": "hospital",
3170          "name": "Vic Falls Private Clinic"
3171      },
3172      "geometry": {
3173          "type": "Point",
3174          "coordinates": [
3175              25.8347043,
3176              -17.9257918
3177          ]
3178      }
3179  },
```

17 lines, 408 characters selected | Spaces: 2 | Plain Text

# Mapbox Studio: Typical Workflow

The screenshot shows a web browser window displaying the Mapbox Studio Manual at <https://www.mapbox.com/help/studio-manual/>. The page title is "Sample workflow".

**Sample workflow**

The flexibility of Mapbox Studio's design supports many different workflows. Below is one possible workflow for creating a custom map style with your own data in Mapbox Studio. In this example, custom data is created with the dataset editor, exported to a tileset, styled in the style editor, and displayed on the web with Mapbox GL JS.

**Uploads**

**Styles**

**Tilesets**

**Datasets**

**Upload data as a dataset**  
with the dataset editor

**Next →**

**← Previous**

**Upload**   **Dataset**   **Tileset**   **Template style**   **Custom style**   **Add data to style**   **Style data**   **Publish**

**Watersheds**

5 features

+ Import

Select a drawing tool and click on the map to start drawing. Double click to finish line and polygon features. Single click on a feature to select it, and click again once selected to change its shape.

Esc to cancel drawing  
Delete to delete a feature or position  
Shift + click to select multiple features

12.0 -97.743, 30.266

Search places

Search dataset

Background style

Reference tileset

History

Help

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US-TX 35

University of Texas at Austin

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# Creating a tileset in Mapbox Studio

The screenshot shows the Mapbox Studio homepage. On the left, a dark sidebar lists navigation options: Home, Styles, Tilesets (selected), Datasets, Stats, and Classic. It also displays account information: "Hi, rasagy-public!", "Starter plan 50.0k map views", and links to "My account" and "My access tokens". On the right, the main content area features a "Get started" section with four cards:

- Customize a map style** (NO CODE REQUIRED): Use the style editor to design custom maps. [Create a style →](#)
- Visualize your data** (NO CODE REQUIRED): Upload data as a tileset and add it to a style. [Create a tileset →](#)
- Install developer tools** (CODE REQUIRED): Get started developing for iOS, Android, and the web. [Begin installation →](#)
- Develop with your map** (CODE REQUIRED): Learn to add styles and functionality to your map. [Start developing →](#)

A sidebar on the right provides a link to the "Read the Studio Manual" for a complete guide to Studio.

# Adding data to a new style

Mapbox

Secure https://www.mapbox.com/studio/tilesets/rasagy-public.2772vui2/

Add data to style Existing style New style

Style Name Medical Amenities

Selected Basic Bright Streets Streets, Terrain

Simple and flexible starting template.

Ocala Daytona Beach San Francisco

Streets A complete basemap, perfect for incorporating your own data.

Arren

Basic Streets Streets, Terrain

Outdoors Dark Light

General basemap tailored to hiking, biking, and sport.

Boston Winthrop Boston Winthrop

San Canyon Scenic Dr 1350 ft

Subtle dark backdrop for data visualizations.

Subtle light backdrop for data visualizations.

Create

Replace Make private Delete

Map ID rasagy-public.2772vui2

Format vector Type vector Size 68 KB

Zoom extent z0 ~ z10

Data will be visible above zoom 10, but may appear simplified.

Learn how to adjust zoom extent

Bounds 25.8,-20.4,30.8,-17.3

hospital\_and\_clinics-6dyc5m

Modified a minute ago

hospital\_and\_clinics

15 properties | T

addr:housenumber

operator String

opening\_hours

name String

addr:street String

phone String

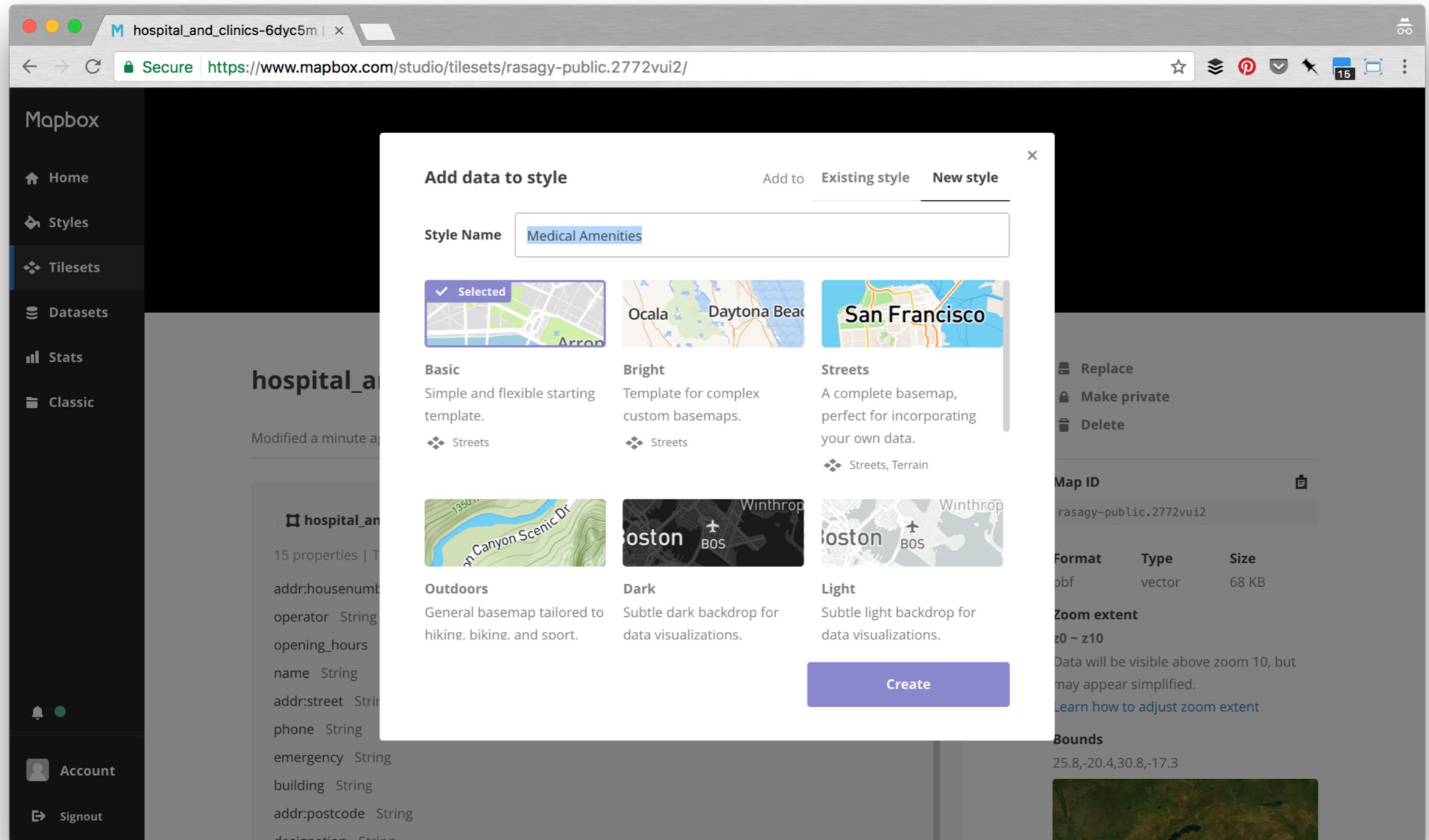
emergency String

building String

addr:postcode String

designation String

Account Signout



# Styling the data

The screenshot shows the Mapbox Studio interface for styling data. The left sidebar lists various layers such as 'hospitals', 'country\_label', 'place\_label\_city', etc. The main panel displays a map of southern Africa with several locations labeled: Choma, Kalomo, Zimba, Binga District Hospital, Livingstone, Vic Falls Private Clinic, Satellite Clinic, Kariyangwe Mis Hospital, Chibonde Clinic, and Bulawayo. The 'hospitals' layer is selected. The styling panel on the right shows a 'Symbol' style applied to the layer. A filter dialog is open, showing a ' amenity' field set to 'String' with a dropdown menu 'is any of' containing the values 'hospital', 'clinic', and 'hospital'. The URL in the browser bar is <https://www.mapbox.com/studio/styles/rasagy-public/cj1dh04mr00ft2smkvxvnx3ml/edit/>.

# Designing custom icons

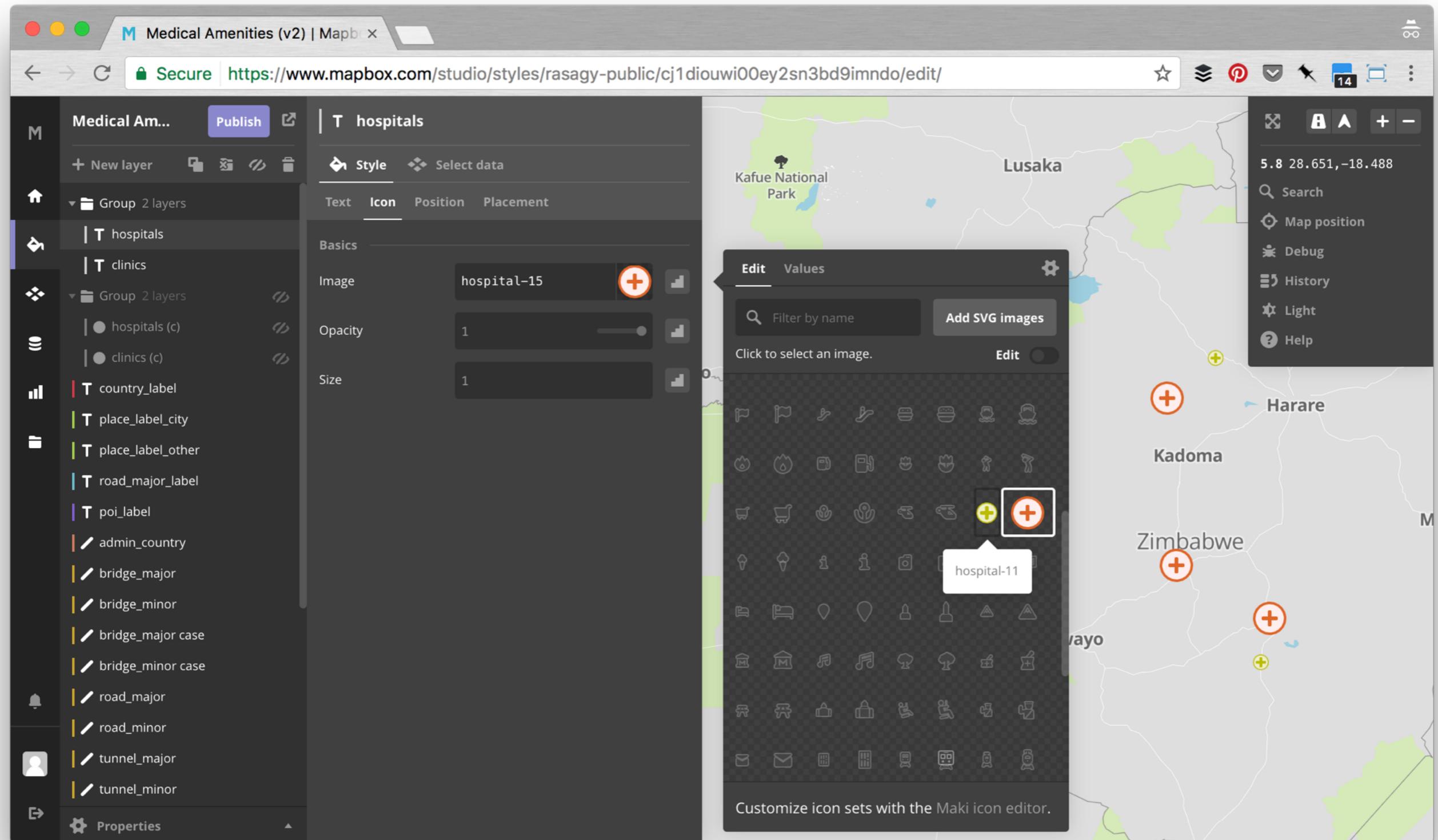
The screenshot shows the Mapbox Maki Icons editor interface. At the top, there's a header bar with the title "Maki Icons | By Mapbox" and a "Secure" connection indicator. On the right, it says "Rasagy". Below the header, the URL "https://www.mapbox.com/maki-icons/editor/" is displayed.

The main area is divided into two sections. On the left, the "Hospitals" group is selected, indicated by a blue border. It contains settings for the background color (#ffebeb), padding (8 px), shape (set to "Rectangle"), corner radius (4 px), stroke color (#d63), and stroke width (2 px). A color picker shows the current stroke color as "#d63".

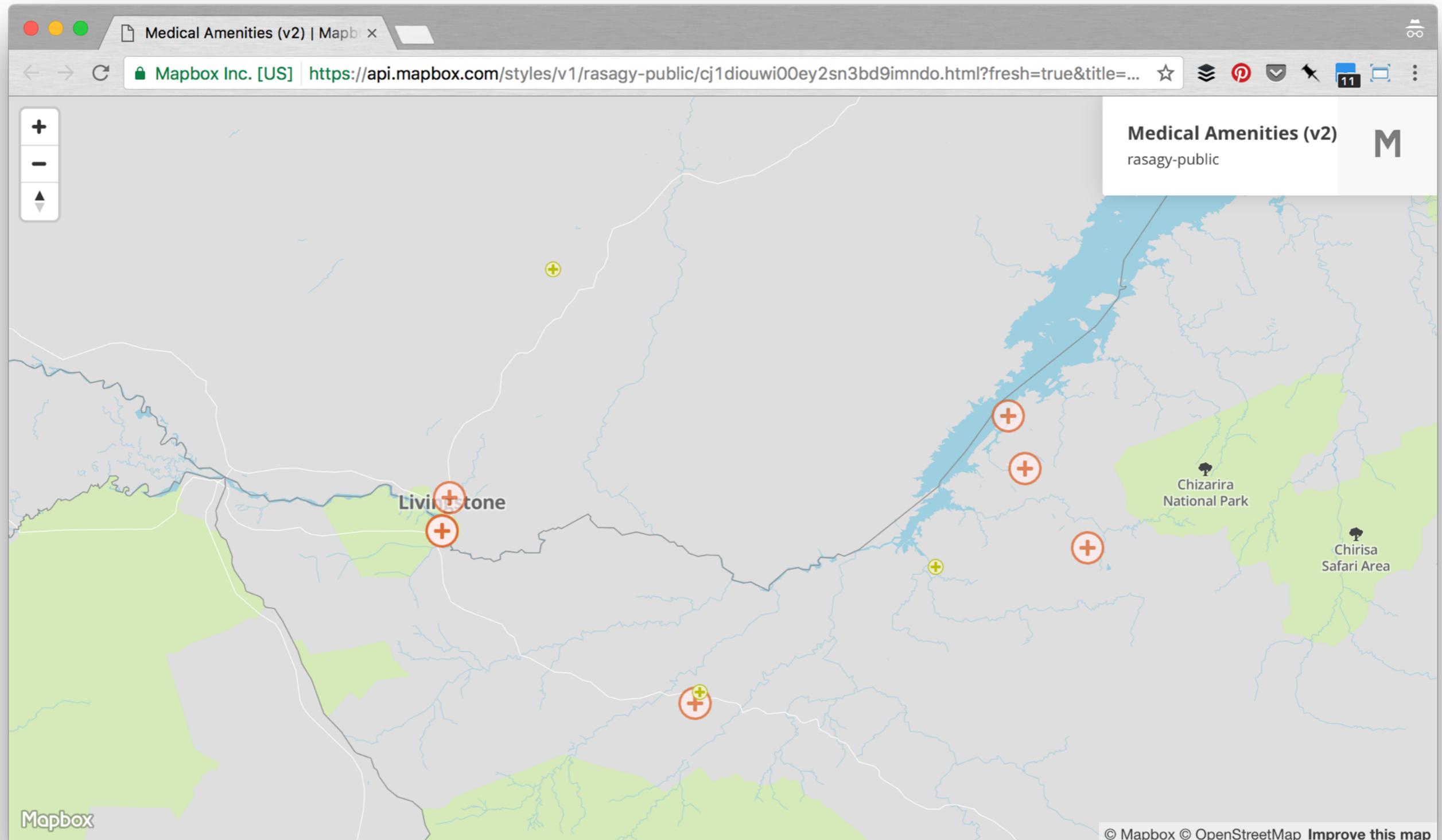
On the right, there's a grid of over 200 Maki icons. A "Hospitals" icon (a red cross inside a circle) is highlighted with a green checkmark. Below the grid, there are two groups listed: "Hospitals" (1 item) and "Clinics" (1 item).

At the top right of the main area, there are buttons for "All Maki icons", "Download 292", and a delete icon. There's also a "New / Import" button on the far left. A "Add group" button is located above the icon grid.

# Using custom icons



# Publishing the map style



[Map style link](#)

# Adding interactivity

Mapbox - Toggle & Hover - JSFiddle.net

JSFiddle, Ltd [GB] | https://jsfiddle.net/rasagy/typo415c/

Run Update Fork Tidy Collaborate Embed Settings Sign in

Fiddle Author rasagy

Fiddle Meta

External Resources 2

AJAX Requests

Legal, Credits and Links

JSFiddle Roadmap suggest and vote for features

Record screen & mic with Rayfeed

Get user feedback.

NEW: User testing without installing any extensions or software

```
1 <nav id="menu"></nav>
2 <div id='map'></div>
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
```

//CHANGE: Add your Access Token below  
mapboxgl.accessToken =  
'pk.eyJ1IjoicmFzYWd5LXB1YmxpYyIsImEiOiJjaXpxbmZnczYwMDE0MzN  
ueWZ6az1kd3cyIn0.JP4-DTHPeFDz0aE1oQbIYg';

//CHANGE: Add your map style id  
//OPTIONAL: Specify starting [long, lat] & zoom (optional)  
var map = new mapboxgl.Map({  
 container: 'map',  
 style: 'mapbox://styles/rasagy-  
public/cj1diouwi00ey2sn3bd9imndo',  
 //center: [28.6,-18.8],  
 //zoom: 6  
});

// CHANGE: Add layer names that need to be toggled  
var toggleableLayerIds = ['hospitals', 'clinics'];

for (var i = 0; i < toggleableLayerIds.length; i++) {  
 var id = toggleableLayerIds[i];  
 var link = document.createElement('a');

```
body {
  margin: 0;
  padding: 0;
}

#map {
  position: absolute;
```

*Questions?*

*Thanks!*

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@mapbox