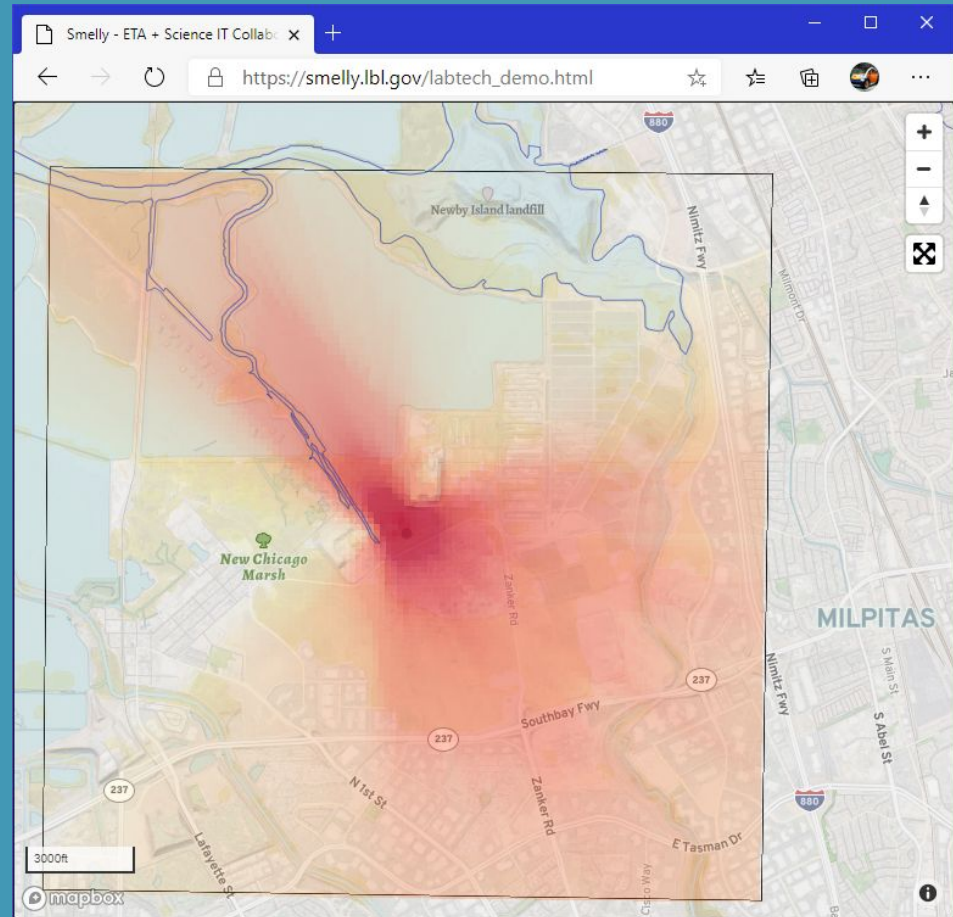


How to go from Text / CSV to Interactive Web Map With Minimal Programming

	F	G	H	I	J	K	L	M	N	O
1	x	y	lon1	lat1	x1	y1	lon2	lat2	x2	y2
2	408118.3227	4523301.536	-124.1252537	40.82825793	405118.3227	4520301.536	-124.0541083	40.82892998	411118.3227	4520301.536
3	709973.7762	4128164.559	-120.6663357	37.25005539	706973.7762	4125164.559	-120.5987382	37.24870311	712973.7762	4125164.559
4	320643.3567	3910951.393	-119.0055577	35.29814262	317643.3567	3907951.393	-118.939604	35.29921871	323643.3567	3907951.393
5	640160.2969	3615904.715	-115.5376146	32.64524926	637160.2969	3612904.715	-115.4736626	32.64448785	643160.2969	3612904.715
6	444104.4179	3754302.31	-117.6370111	33.90046387	441104.4179	3751302.31	-117.5721185	33.90078234	447104.4179	3751302.31
7	595650.9153	4171656.001	-121.9495589	37.66040243	592650.9153	4168656.001	-121.8815447	37.65977708	598650.9153	4168656.001
8	668831.5349	4278320.816	-121.0953699	38.61091151	665831.5349	4275320.816	-121.0264952	38.60976979	671831.5349	4275320.816
9	580672.1725	4230907.556	-122.1129694	38.19576359	577672.1725	4227907.556	-122.0444568	38.19522595	583672.1725	4227907.556
10	241553.5368	4065771.856	-119.9256048	36.67466712	238553.5368	4062771.856	-119.8585409	36.67629715	244553.5368	4062771.856
11	511956.7612	4270581.254	-122.8972018	38.55662131	508956.7612	4267581.254	-122.8283391	38.55654059	514956.7612	4267581.254
12	444438.5486	3765495.06	-117.6341457	34.00142363	441438.5486	3762495.06	-117.5691763	34.0017414	447438.5486	3762495.06



LabTech 2020



Tin Ho, System Engineer, Scientific Computing
Ling Jin, Research Scientist, Energy Technology Area



Acknowledgement

Smelly.lbl.gov was a collaboration between
Energy Technology Area and Scientific Computing



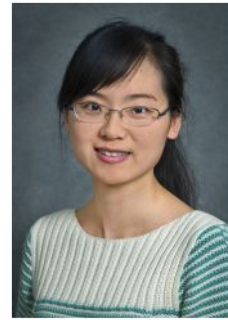
Tom
Kirchstetter
(PI)



Corinne
Scown
(Co-PI)



Andrew
Satchwell



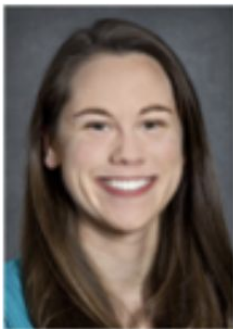
Ling
Jin



Nancy
Brown



Sarah
Smith



Chelsea
Preble



Sarah
Nordahl



Mike
Sohn



Randy
Maddalena



Wei
Zhou



Tin
Ho

Project Poster:

https://github.com/lbnl-scienceit/smelly/blob/master/figures/odor_poster_v7.4.pdf

Project Background: Enabling Anaerobic Digestion Deployment for Municipal Solid Waste-to-Energy

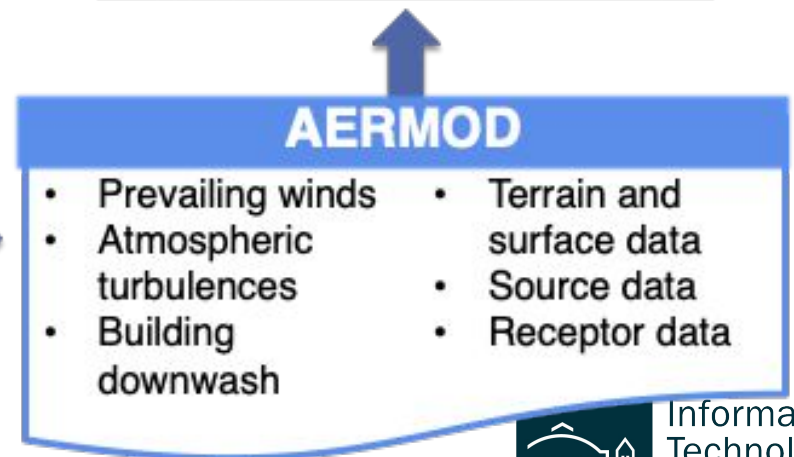
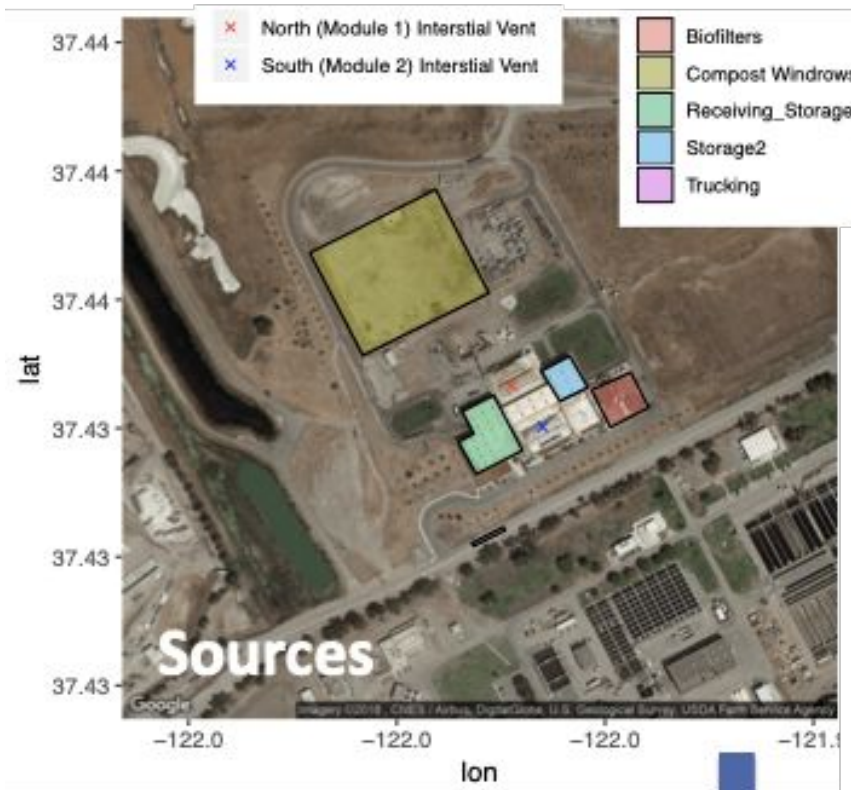


CEC funded study (2015-2019)

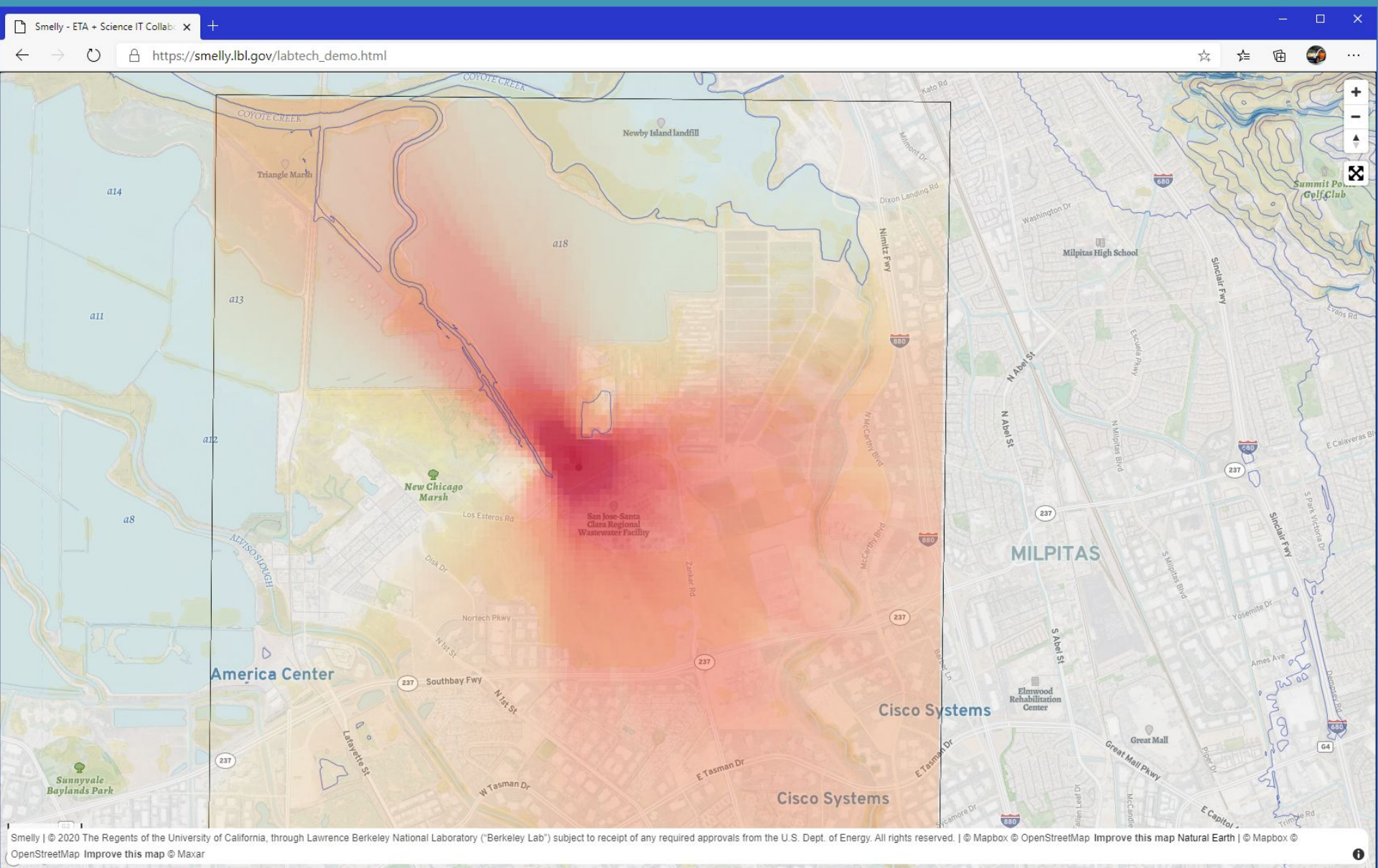
ZWEDC is the largest
Dry AD facility and
faces scale-up
barriers:

- Odor results in public adversity
- Siting and air permitting of new facilities
- High capital and operational costs
- Uncertainty in revenue for power output, compost, and other co-products

Atmospheric Dispersion Modeling to Simulate Odor Concentrations Downwind of the Facility



The goal: interactive web app



Tasks Overview

- What is Mapbox, what can it do
- What kind of data can be put on a map
- How to geocode data
- How to upload data to Mapbox server
- How to create interactive web page
- How to get a web site with lbl.gov hosted by github for free



Mapbox



Create and style clusters



Create a heatmap layer



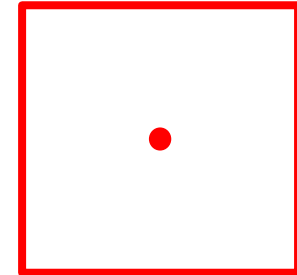
Style circles with a data-driven property



Add a pattern to a polygon

Data source example

	A	B	C	D	E
1		id	lon	lat	Concentration
2	1	1	-121.9842746	37.46179406	2.254071786
3	2	2	-121.9837093	37.4617892	2.370530068
4	3	3	-121.983144	37.46178433	2.222403045
5	4	4	-121.9825787	37.46177947	2.070827619
6	5	5	-121.9820134	37.4617746	2.086100612



Convert point to area/polygon

	A	B	C	D	E	F	G	H	I	J	K
1		id	lon1	lat1	Concentration	lon2	lat2	lon3	lat3	lon4	lat4
2	1	1	-121.9845573	37.46179649	2.254071786	-121.983992	37.46179163	-121.9839981	37.46134101	-121.9845634	37.46134587
3	2	2	-121.983992	37.46179163	2.370530068	-121.9834267	37.46178677	-121.9834328	37.46133615	-121.9839981	37.46134101
4	3	3	-121.9834267	37.46178677	2.222403045	-121.9828614	37.4617819	-121.9828675	37.46133129	-121.9834328	37.46133615
5	4	4	-121.9828614	37.4617819	2.070827619	-121.9822961	37.46177703	-121.9823022	37.46132642	-121.9828675	37.46133129
6	5	5	-121.9822961	37.46177703	2.086100612	-121.9817308	37.46177216	-121.9817369	37.46132155	-121.9823022	37.46132642

Example .geojson

```
{ "type": "FeatureCollection", "features": [  
  { "type": "Feature",  
    "properties":  
      {"conc": 0.18577},  
    "geometry": { "type": "Polygon", "coordinates": [  
      [ -121.985, 37.407 ],  
      [ -121.984, 37.407 ],  
      [ -121.984, 37.406 ],  
      [ -121.985, 37.406 ],  
      [ -121.985, 37.407 ],  
    ] ] }  
  },  
  { "type": "Feature",  
    "properties":  
      {"conc": 0.16983},  
    "geometry": { "type": "Polygon", "coordinates": [  
      [ -121.983, 37.407 ],  
      [ -121.983, 37.407 ],  
      [ -121.983, 37.406 ],  
      [ -121.983, 37.406 ],  
      [ -121.983, 37.407 ],  
    ] ] }  
  }  
]
```

Convert csv to geojson

```
cat concentration.csv | ./csv2gson.py > conc.geojson
```

Get script from:

<https://github.com/lbnl-scienceit/smelly/blob/master/csv2gson.py>



Mapbox Studio

The screenshot shows the Mapbox Account dashboard. The top navigation bar includes 'Account | Mapbox', 'Dashboard', 'Tokens', 'Statistics', 'Invoices', and 'Settings'. A dropdown menu is open from the 'Settings' icon, with 'Studio' highlighted in a red box. The main content area features a 'Start by designing a map' banner, a list of SDKs (JS Web, iOS, Android, Unity), and an 'Access tokens' section with a '+ Create a token' button. The right sidebar contains sections for 'Account', 'Plan', 'Current billing c...', 'Sessions', 'APIs', and 'Tools & resources'.

Account | Mapbox Account

Dashboard Tokens Statistics Invoices Settings

Start by designing a map >

Or install the Maps SDK:

- JS Web
- iOS
- Android
- Unity

Account

sn50

Plan

Pay-as-you-go

Current billing c...

Sessions

Map Loads for Web

3 / 50,000 free loads

APIs

Vector Tiles API

638 / 200,000 free tile requests

Raster Tiles API

1,707 / 750,000 free tile requests

Tools & resources

- Integrate Mapbox
- Design in Mapbox Studio
- Documentation
- Help

Access tokens

+ Create a token

You need an API access token to configure Mapbox GL JS, Mobile, and Mapbox web services like routing and geocoding. Read more about API access tokens in our documentation.

Default public token Refresh

pk.eyJ1Ijoic241MCIsImEiOiI3jam8wetl0dm0wVWhM3dubmgyb3hwaTZsIn0.2Cv1-nnhZAoavESou_Rq1Q Last modified: almost 2 years ago URLs: N/A

dataUp

SECRET TOKEN Last modified: almost 2 years ago URLs: 0

https://studio.mapbox.com

Upload New Tileset

The screenshot shows the Mapbox Studio interface. The top navigation bar has 'Styles', 'Tilesets', and 'Datasets' tabs, with 'Tilesets' highlighted. A 'New tileset' button is visible in the top left. The main content area shows a 'New tileset' modal dialog with the following text:

New tileset

Upload file | Create from dataset

Drag and drop a MBTiles, KML, GPX, GeoJSON, Shapefile (zipped), or CSV file here to convert it into vector tiles. To create raster tiles, drag and drop a GeoTIFF file.

Select a file

Studio upload limits

- 20 uploads / month
- 300 MB / upload

Uploading data via our APIs allows you to bypass these limits. Use [Mapbox Tiling Service](#) for vector data or [Uploads API](#) for raster data.

Tilesets

New tileset

Search [] < >

176-200 of 300+ tilesets

Custom tilesets

- SJPortervilleSprLoAa10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoTr10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoRe10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoNc10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoBl10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoCo10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAutLoAa10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAllLoTr10x**
Modified Apr 2, 2019 • Public
- SJPortervilleAllLoRe10x**

pay attention to assigned tile name: sn50.cvnfmufy

What is a tileset?

A tileset is a collection of raster or vector data broken up into a uniform grid of square tiles at 22 preset zoom levels. [Read more.](#)

How to create tilesets

Click **New tileset** to upload your data. Mapbox renders [vector tiles](#) from your data so you can create styles from it.

You can also use Mapbox default tilesets. Read the [Vector tiles docs](#) to find out more.

How to use tilesets

Once your vector tiles are ready, you can add them to a new or existing style. First, open your style editor.

Notifications

Uploads

- Succeeded a few seconds ago
- tmp_test_zwedc-1960rh >**
- sn50.cvnfmufy**

Announcements Clear all

August 26th 2020

Update your Mapbox Streets v7 styles to Mapbox Streets v8

Update to v8 by clicking the **view updates** button from the style list or style editor pages. By updating to Mapbox Streets v8, styles gain access to components and data

Style a base map

Mapbox Studio

studio.mapbox.com

mapbox | Studio

Styles Tilesets Datasets

Choose a template

- Basic** ✓
The best way to get started.
- Monochrome**
Start with a Monochrome style.
- Streets**
A complete basemap, perfect for incorporating your own data.
- Outdoors**
General basemap tailored to hiking, biking, and sport.
- Satellite Streets**
Global imagery enhanced with road and label hierarchy.
- Navigation**
Light and dark basemaps tailored to in-app navigation.

Choose a variation

- Base
- Chilled
- Galaxy
- Overcast
- Seashore
- Spring

Cancel [Customize Basic](#)

Paris, Clignancourt, 18th Arrondissement, 17th Arrondissement, 8th Arrondissement, 7th Arrondissement, 6th Arrondissement, 5th Arrondissement, 15th Arrondissement, 14th Arrondissement, 13th Arrondissement, 12th Arrondissement, 11th Arrondissement, 10th Arrondissement, 9th Arrondissement, 8th Arrondissement of Paris, 7th Arrondissement of Paris, 6th Arrondissement of Paris, 5th Arrondissement of Paris, 4th Arrondissement of Paris, 3rd Arrondissement of Paris, 2nd Arrondissement of Paris, 1st Arrondissement of Paris, 19th Arrondissement of Paris, 20th Arrondissement of Paris, 16th Arrondissement of Paris, 13th Arrondissement of Paris, 14th Arrondissement of Paris, 15th Arrondissement of Paris, 16th Arrondissement of Paris, 17th Arrondissement of Paris, 18th Arrondissement of Paris, 19th Arrondissement of Paris, 20th Arrondissement of Paris, 1st Arrondissement of Paris, 2nd Arrondissement of Paris, 3rd Arrondissement of Paris, 4th Arrondissement of Paris, 5th Arrondissement of Paris, 6th Arrondissement of Paris, 7th Arrondissement of Paris, 8th Arrondissement of Paris, 9th Arrondissement of Paris, 10th Arrondissement of Paris, 11th Arrondissement of Paris, 12th Arrondissement of Paris, 13th Arrondissement of Paris, 14th Arrondissement of Paris, 15th Arrondissement of Paris, 16th Arrondissement of Paris, 17th Arrondissement of Paris, 18th Arrondissement of Paris, 19th Arrondissement of Paris, 20th Arrondissement of Paris.

sites-info-polyg - Satellite Streets
Published Jan 27, 2019 • Public

Add Tileset to New Layer

The screenshot displays the Mapbox Studio interface for editing a style named "ZWEDC 50x50m - Light". The browser address bar shows the URL: `studio.mapbox.com/styles/sn50/cjpdk7mpgbx8f2ss4bu9vzfs/edit/#12.84/37.43476/-121.95267`. The interface is divided into several panels:

- Components Layers:** A list of existing layers on the left, including "POI labels (scalerank 2)", "Road labels", "waterway-label", "Admin boundaries", "Bridges", "Roads", "Tunnels", "building", "Aeroways", "barrier_line-land-line", "barrier_line-land-polygon", "zwedc-50x50m-29q7xv" (highlighted), "water", "water shadow", "waterway-river-canal", "Hillshading", "sand", "industrial", "pitch", "parks", "national_park", "Landcover", and "background".
- Layers Panel:** Shows the selected layer "zwedc-50x50m-29q7xv" with a "Select data" button highlighted by a red box. Below it, the "Source" section lists "ZWEDC_50x50m-29q7xv" with ID "sn50.aae3dmkj". The "Type" is set to "Fill". The "Filter" section is empty. The "Zoom extent" is "z0 - z22".
- Active sources:** A list of sources currently used in the style, including "Mapbox Streets v7", "Mapbox Terrain V2", and the selected "ZWEDC_50x50m-29q7xv".
- Unused sources:** A list of sources not currently used, including "Mapbox Incidents V1" and "Mapbox Satellite".
- Map View:** A large map area showing a green grid overlay. A legend in the bottom right of the map view lists the layers: "ZWEDC_50x50m-29q...", "road", "landuse_overlay", "contour", and "landcover".
- Bottom Panel:** Contains options to "Upload data", "Add tileset by ID", and "Convert to background layer".

Select data source & type

The screenshot shows the Mapbox Studio interface. The browser address bar displays the URL: `studio.mapbox.com/styles/sn50/cjpdk7mpgbx8f2ss4bu9vzfs/edit/#15...`. The page title is "Styles > ZWEDC 50x50m - Light Edited Dec 12, 2018".

The left sidebar contains a "Components" panel with a "Layers" list. The selected layer is "zwedc-50x50m-29q7xv". The "Type" dropdown menu is open, and the "Fill" option is highlighted with a red box. The "Fill" option is described as "A filled polygon with an optional stroked border." and has a blue checkmark next to it.

The main map area shows a green grid overlay. A legend in the top right corner indicates "Visible features" (green) and "Filtered out features" (pink). The map shows a grid of green lines on a dark green background.

The bottom right corner of the map shows a notification icon with a red circle containing the number "4".

Style data dynamically

The screenshot displays the Mapbox Studio interface for editing a style named "zwedc-50x50m-29q7xv". The "Style" tab is selected, showing a "Data range" configuration for the "Fill color" property. The data range is set to "Rate of change exponential" and includes several color stops with their corresponding values and HSL colors:

Value	Color (HSL)
max 0.05519	hs1(0, 54%, 87%)
max 1.5	hs1(49, 93%, 56%)
max 5	hs1(29, 91%, 66%)
max 10	hs1(0, 91%, 56%)
max 17.73298	hs1(233, 95%, 48%)

Additional options visible include "Style across zoom range", "Style with data conditions", and "Clear value". The map on the right shows a heatmap visualization of the data, with a road labeled "Los Esteros Rd" and a building labeled "San Jose-Sant Clara Regional Wastewater Facility".

Publish your map

The screenshot shows the Mapbox Studio web interface. The browser address bar displays 'studio.mapbox.com'. The main content area shows a map style named 'ZWEDC 50x50m - Light' with a 'View updates' button and a share icon (a square with a diagonal line) highlighted by a red box. A 'Share & develop' panel is open, featuring a blue character icon and tabs for 'Draft' and 'Production'. The panel contains the following sections:

- Share & develop**: A blue character icon, 'Draft' and 'Production' tabs, and a note: 'The Production URL is cached for performance and scale, so new changes may take a few minutes to appear.' Below this, it says 'Edited 9 minutes ago • Public'.
- Share style**: Two options for sharing the style:
 - Preview only**: A text input field containing 'https://api.mapbox.com/styles/v1/sn50...' and a copy icon. Below it, the text reads 'Link allows anyone to preview your style.'
 - Allow copying**: A text input field containing 'https://api.mapbox.com/styles/v1/sn50...' and a copy icon. Below it, the text reads 'Link allows anyone to copy your style to their account.'
- Developer resources**: A section with tabs for 'Web', 'IOS', 'Android', 'Unity', and 'Third party'. Below the tabs, there are two rows of text with copy icons:
 - Style URL**: A text input field containing 'mapbox://styles/sn50/cjpdk7mpgbx8f2ss...' and a copy icon. This row is highlighted with a red box.
 - Access token**: A text input field containing 'pk.eyJ1Ijoic241MCI6ImEiOiJjam8weWw10dm...' and a copy icon.

The background map shows a street view with labels for 'Zanker Rd Landfill' and 'San Jose-Santa Clara Regional Wastewater Facility'. A 'Preview styles on iOS or Android' button is visible in the top right corner of the interface.

Copy web page template <https://docs.mapbox.com/mapbox-gl-js/api/>

Mapbox GL JS

API Reference

Examples

Plugins

Style Specification

Search

Search API Reference

Introduction

- Quickstart
- Reading this documentation
- CSP Directives
- Referrer Policies
- Mapbox CSS

Map

Properties and options

Markers and controls

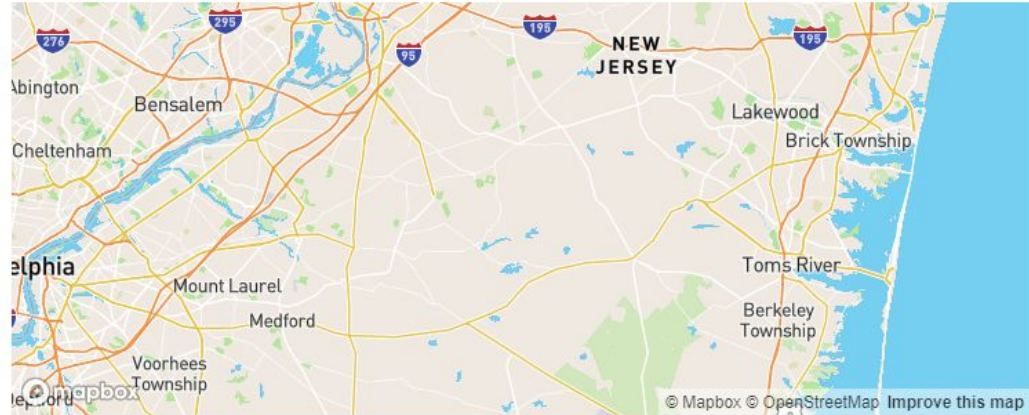
Geography and geometry

User interaction handlers

Sources

Events

Quickstart



To get started, you need an [access token](#) and a [style URL](#). You can choose from one of our [professionally designed styles](#) or create your own using [Mapbox Studio](#).

Mapbox CDN

Module bundler

Include the JavaScript and CSS files in the `<head>` of your HTML file.

```
<script src='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.js'></script>
<link href='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.css' rel='stylesheet' />
```

Include the following code in the `<body>` of your HTML file.

```
<div id='map' style='width: 400px; height: 300px;'></div>
<script>
mapboxgl.accessToken = 'pk.eyJ1Ijoic241MCIsImEiOiJjam8weW10dm0wMwVhM3dubmgyb3hwaTZSIn0.2Cv1-
nnhZAoavESou_RqiQ';
var map = new mapboxgl.Map({
  container: 'map',
  style: 'mapbox://styles/mapbox/streets-v11', // stylesheet location
  center: [-74.5, 40], // starting position [lng, lat]
  zoom: 9 // starting zoom
});
</script>
```

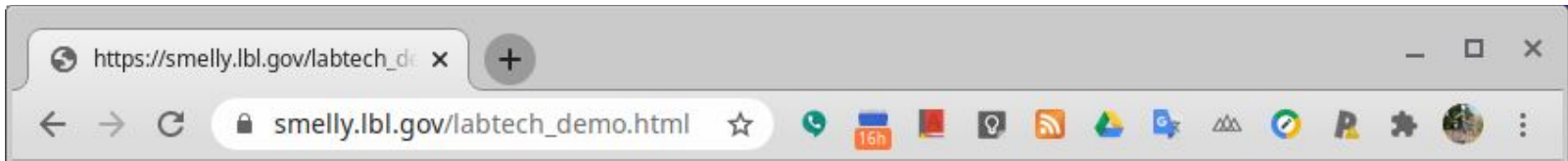
Edit web page template with your map info

```
*C:\tin\tin-gh\lbnl-scienceit\smelly\labtech_demo.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
labtech_demo.html
1 <HTML>
2 <!-- https://docs.mapbox.com/mapbox-gl-js/api/ -->
3
4
5 <script src='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.js'></script>
6 <link href='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.css' rel='stylesheet' />
7
8
9 Hello World!
10
11 <div id='map' style='width: 800px; height: 600px;'></div>
12   <script>
13     mapboxgl.accessToken = 'pk.eyJ1Ijoic24lMCxxxxxx' // use your own token
14     var map = new mapboxgl.Map({
15       container: 'map',
16       style: 'mapbox://styles/sn50/cipdk7mpqbx8f2ss4bu9vzfs1', // use your own style
17       center: [-121.945, 37.434], // starting position [lng, lat]
18       zoom: 14 // starting zoom
19     });
20   </script>
21
22
23 </HTML>
24
```

Hyper Text Markup La length : 722 lines : 24 Ln : 13 Col : 66 Sel : 0 | 0 Unix (LF) UTF-8 INS

Result

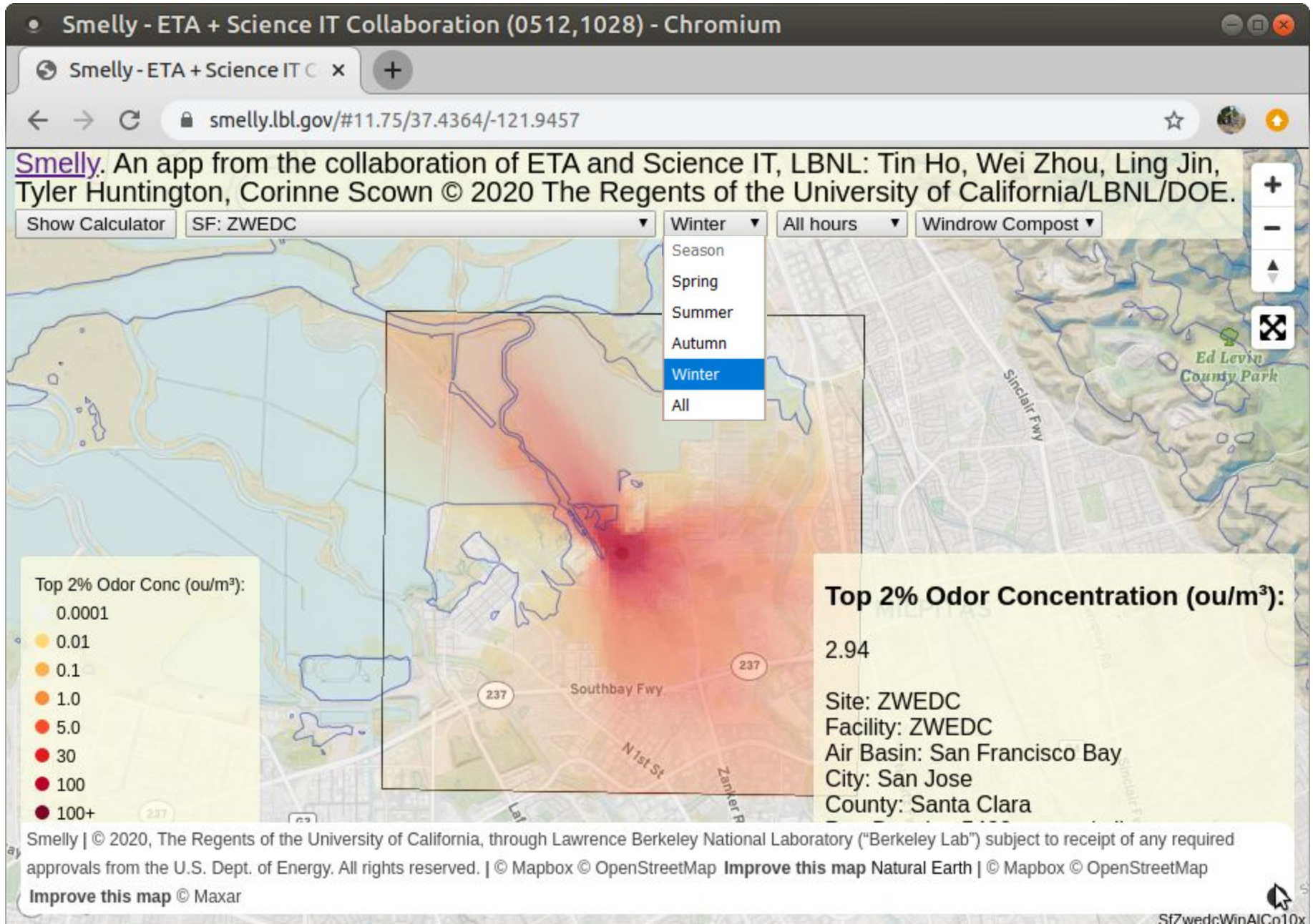
https://smelly.lbl.gov/labtech_demo.html



Hello World!



More Advance Setup <https://smelly.lbl.gov/>



Create Public Web Site

Use Github to host HTML page

Create CNAME with lbl.gov

complete form in <https://iprequest.lbl.gov>



LBLnet Services Group

IP Request :: LBLnet IP Request Form

Add a DNS record for **FQDN** smelly2.lbl.gov:

<input type="text" value="tin"/>	Contact (required: LBL contact)
<input type="text" value="ljin"/>	Contact (required: LBL contact or sanctioned email)
<input type="text"/>	Contact (optional: LBL contact or email)
<input type="text" value="cloudflare"/>	Location (required)
<input type="text" value="CNAME"/>	
<input type="button" value="next"/>	

Stop creating a new request and go back:

<input type="button" value="back"/>	
-------------------------------------	--

[IP Request Help](#)
[IP Request News](#)

[IP Request Advanced Interface](#)



LBLnet Services Group

IP Request :: LBLnet IP Request Form

Add a DNS **CNAME** record for **FQDN** smelly2.lbl.gov:

Target

next



Stop creating a new request and go back:

back



[IP Request Help](#)

[IP Request News](#)



LBLnet Services Group

IP Request :: LBLnet IP Request Form

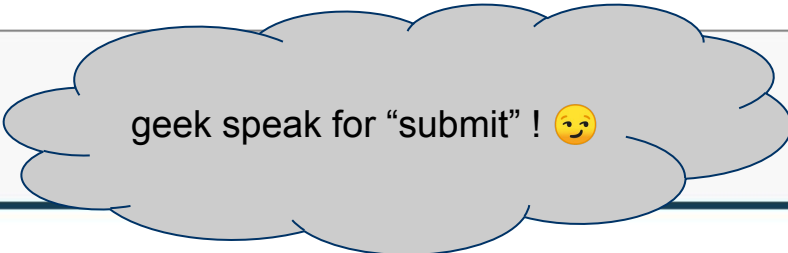
Submit requests for processing:

#1 Add contact for smely.lbl.gov **contacts** tin, LJin **location** cloudflare

#2 Add DNS CNAME for smely.lbl.gov alias for smelly.lbl.gov.cdn.cloudflare.net

Warning: target smelly.lbl.gov.cdn.cloudflare.net is not part of a LBL owned domain

Optional comment:



Scheduled commit



Specify day and time

HH:MM

Make additional requests

Add, modify or remove a **FQDN**:



Upload a batch change request set:



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at <http://smelly.lbl.gov/>

Source

Your GitHub Pages site is currently being built from the master branch. [Learn more.](#)

Branch: master

/ (root)

Save

Theme Chooser

Select a theme to publish your site with a Jekyll theme. [Learn more.](#)

Your site is currently using the Leap Day theme.

Change theme

Custom domain

Custom domains allow you to serve your site from a domain other than lbnl-scienceit.github.io. [Learn more.](#)

smelly.lbl.gov

Save

Enforce HTTPS — Unavailable for your site because your domain is not properly configured to support HTTPS ([smelly.lbl.gov](#)) —

[Troubleshooting custom domains](#)

HTTPS provides a layer of encryption that prevents others from snooping on or tampering with traffic to your site.

When HTTPS is enforced, your site will only be served over HTTPS. [Learn more.](#)

Mapbox tutorials

Creating Custom site:

<https://docs.mapbox.com/help/tutorials/create-a-custom-style/>

HTML web page skeleton code (use Mapbox GL JS):

<https://docs.mapbox.com/mapbox-gl-js/api/>

This slidedeck 😊 :

<http://tiny.cc/labtech2020>



¿ Questions ?



Information
Technology
BERKELEY LAB



Thank You!

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<http://tiny.cc/labtech2020>



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Backup Slides



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master 2 branches 0 tags Go to file Add file Code

	tin6150 fix tab space	✓ b68895f 42 minutes ago	🕒 47 commits
	data	new rate constant file (from Wei via gmail)	2 years ago
	figures	add AGU2019 poster	7 months ago
	src	adding evanplaiace jquery-csv as a library	2 years ago
	CNAME	Create CNAME	2 years ago
	LICENSE	add LICENSE per DOE/UC requirement	8 months ago
	README.rst	fix minor grammar errors in README	7 months ago
	_config.yml	initial seed of smelly under new github repo, now under lbnl-s...	2 years ago
	index.html	add tech selector; change warning to README info	7 months ago
	labtech_demo.html	fix tab space	42 minutes ago
	labtech_smelly_demo.html	rename demo html	1 hour ago
	zwdc.html	more update on LICENSE	8 months ago

README.rst

About

Semly is an interactive webtool displaying odor dispersion from various potential waste-to-energy sites across California. Collaboration between ScienceIT and Energy Technology Area. [Mapbox + JavaScript]

- smelly.lbl.gov
- [Readme](#)
- [View license](#)

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

Example barebone .geojson

```
{  
  "type": "FeatureCollection",  
  "features": []  
}
```

Example .geojson - 1 point

```
{
  "type": "FeatureCollection",
  "features":
  [
    {
      "type": "Feature",
      "properties": {
        "name": "Van Dorn Street",
        "marker-color": "#0000ff",
        "marker-symbol": "rail-metro",
        "line": "blue"
      },
      "geometry": {
        "type": "Point",
        "coordinates": [
          -77.12911152370515,
          38.79930767201779
        ]
      }
    }
  ]
}
```

Example .geojson

```
{ "type": "FeatureCollection", "features": [  
  { "type": "Feature",  
    "properties":  
      {"avecon": 0.18577}  
      // properties is required (at least for mapbox), even if empty. could give it name or timestamp  
    ,  
    "geometry": { "type": "Point", "coordinates": [ -121.985002139616, 37.4079452829464 ] }  
  }  
  ,  
  { "type": "Feature",  
    "properties":  
      {"avecon": 0.18817}  
    ,  
    "geometry": { "type": "Point", "coordinates": [ -121.984437247048, 37.4079404316778 ] }  
  }  
] }
```


Creating HTML page

<https://docs.mapbox.com/mapbox-gl-js/api/>

```
<HTML>
<HEAD>
<script src='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.js'></script>
<link href='https://api.mapbox.com/mapbox-gl-js/v1.12.0/mapbox-gl.css' rel='stylesheet' />
</HEAD>

<BODY>
<div id='map' style='width: 400px; height: 300px;'></div>
<script>
mapboxgl.accessToken =
'pk.eyJ1IjoiY241MCIlImEiOiJjam8weWI0dm0wNWVhM3dubmgyb3hwaTZsIn0.2CvI-nnhZAOavESou_RqiQ';
var map = new mapboxgl.Map({
  container: 'map',
  style: 'mapbox://styles/mapbox/streets-v11', // stylesheet location
  center: [-74.5, 40], // starting position [lng, lat]
  zoom: 9 // starting zoom
});
</script>
</BODY>
</HTML>
```

Publish Map Style (don't use this, zip don't have html page in it!)

Mapbox Studio

studio.mapbox.com

View updates

Share & develop **Draft** Production

The Production URL is cached for performance and scale, so new changes may take a few minutes to appear.

Published Dec 12, 2018 • Public

Allow copying `https://api.mapbox.com/styles/v1/sn50...`

Link allows anyone to copy your style to their account.

Developer resources

Web IOS Android Unity Third party

Style URL `mapbox://styles/sn50/cjpdk7mpgbx8f2ss...`

Access token `pk.eyJ1Ijoic241MCI6ImEiOiIjam8weWVl0dm...`

Read the [Mapbox GL JS docs](#) to start building for the web.

Download: [↓ ZWEDC 50x50m - Light.zip](#)

Stylesheet (JSON), icons (SVG), and fonts (TTF or OTF)

View updates

View updates

Zanker Rd Landfill

San Jose-Santa Clara Regional Wastewater Facility