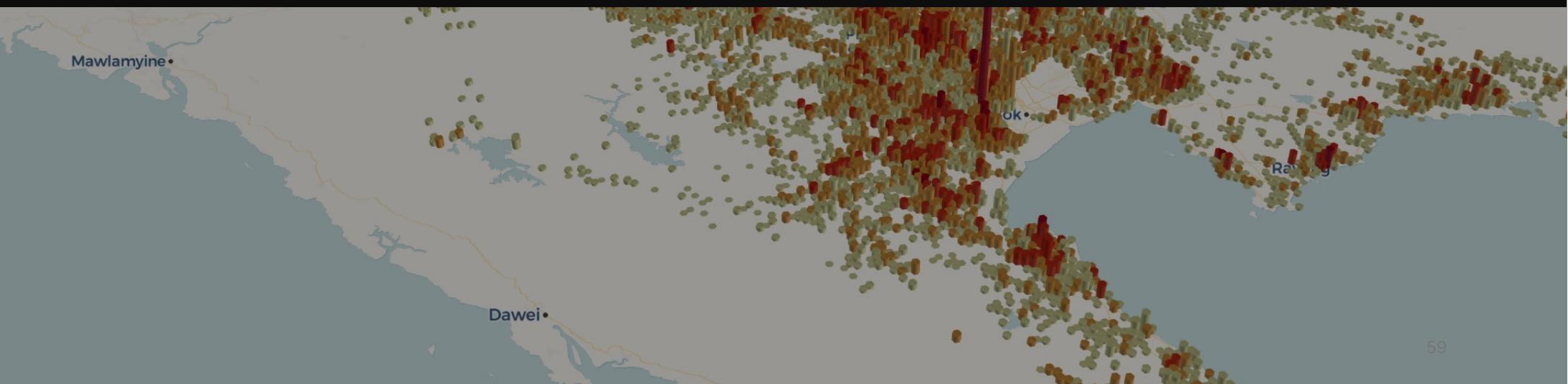
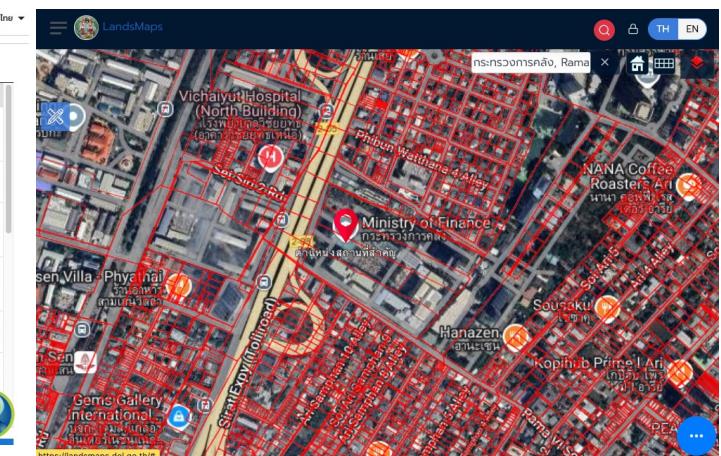
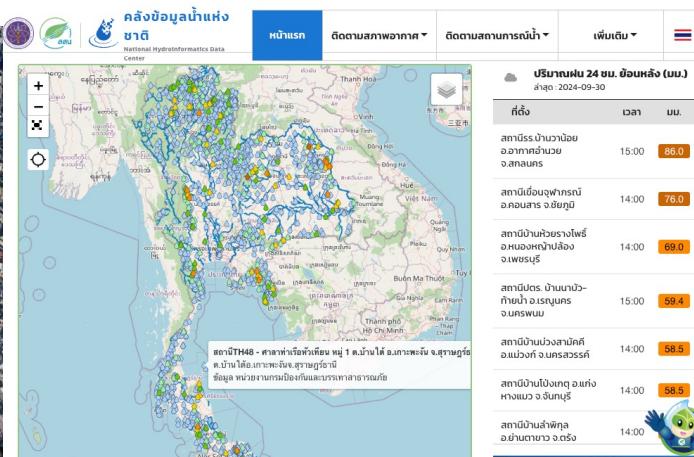
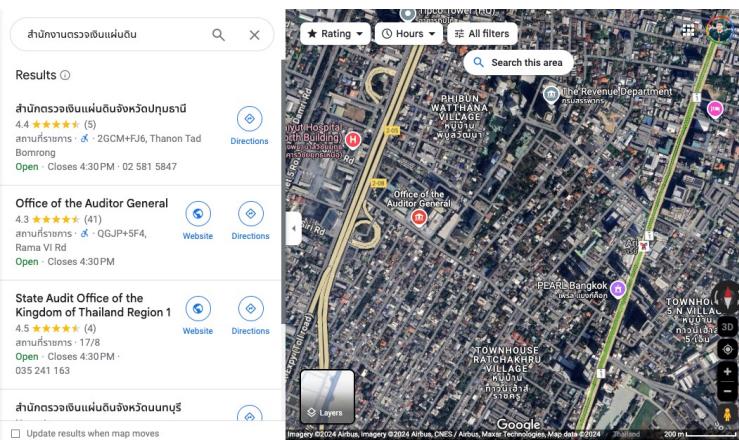
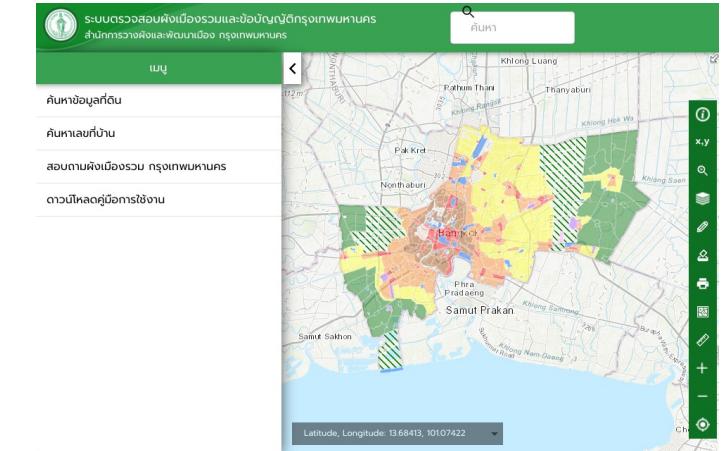
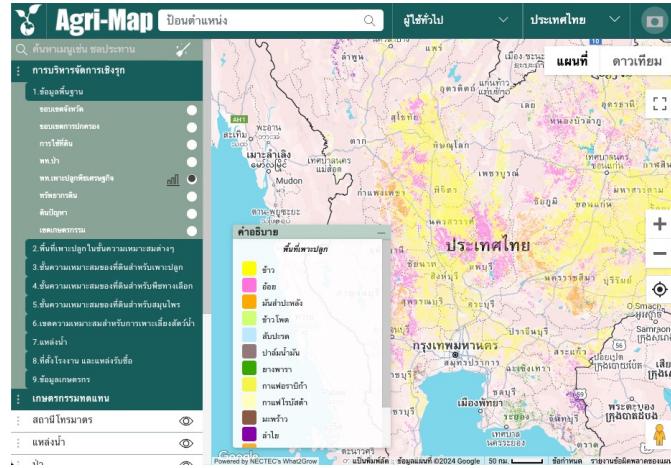


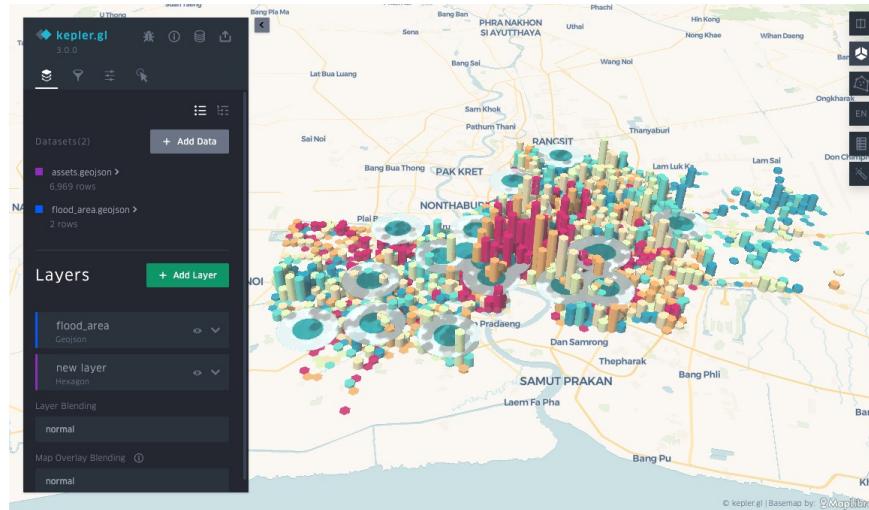
GIS Application Development: Web Map Publishing



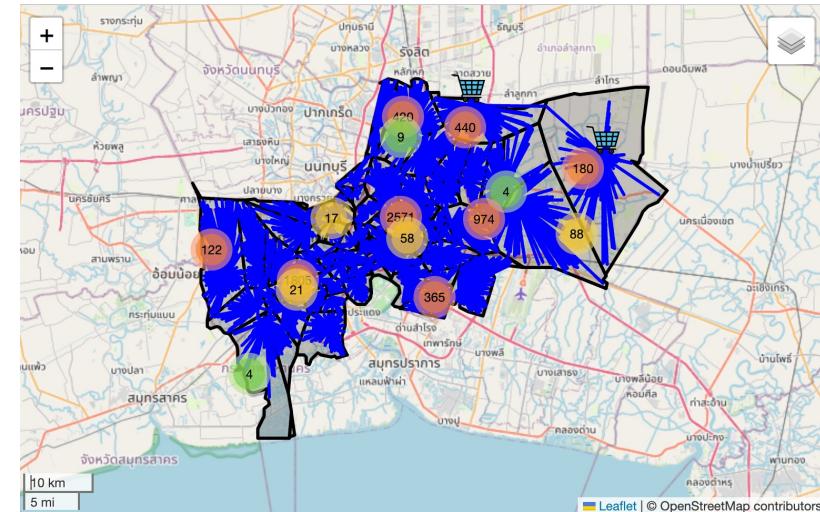
Nowaday GIS Application



Today achievements

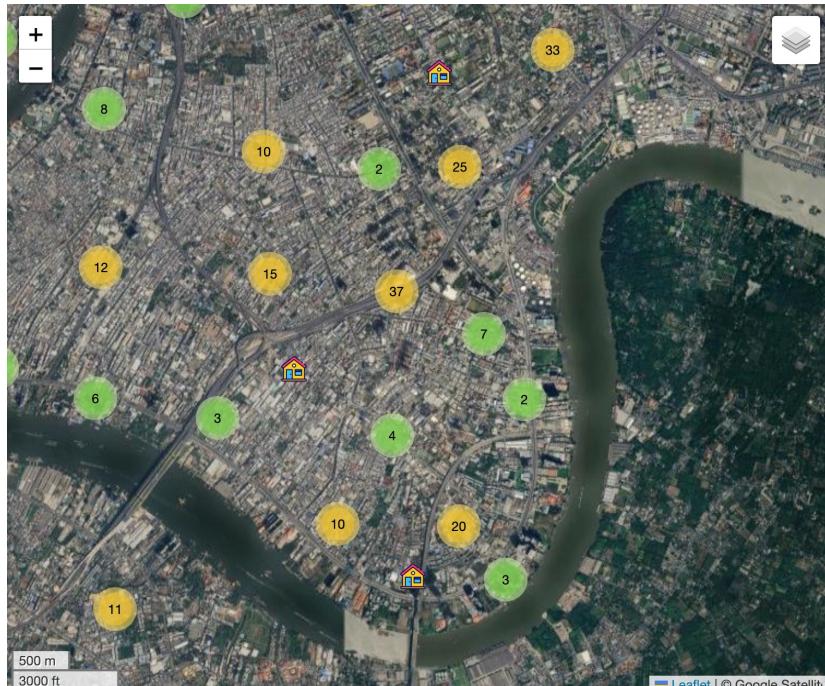


Kepler Online Map



Web map Gitpage

Why do we need a web map?



Explore Economic-GIS Integration



Portfolio Differentiation

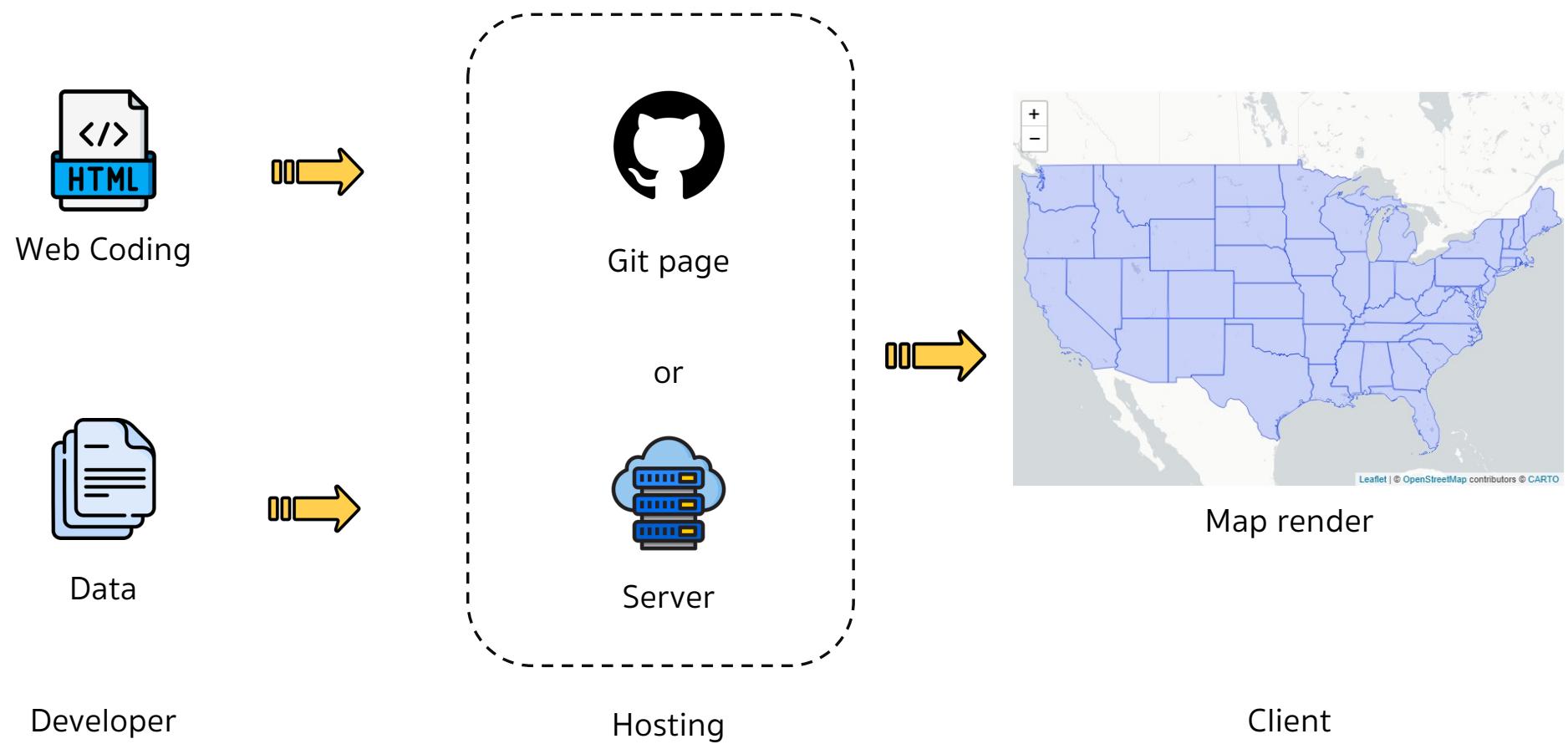


Collaboration and Sharing

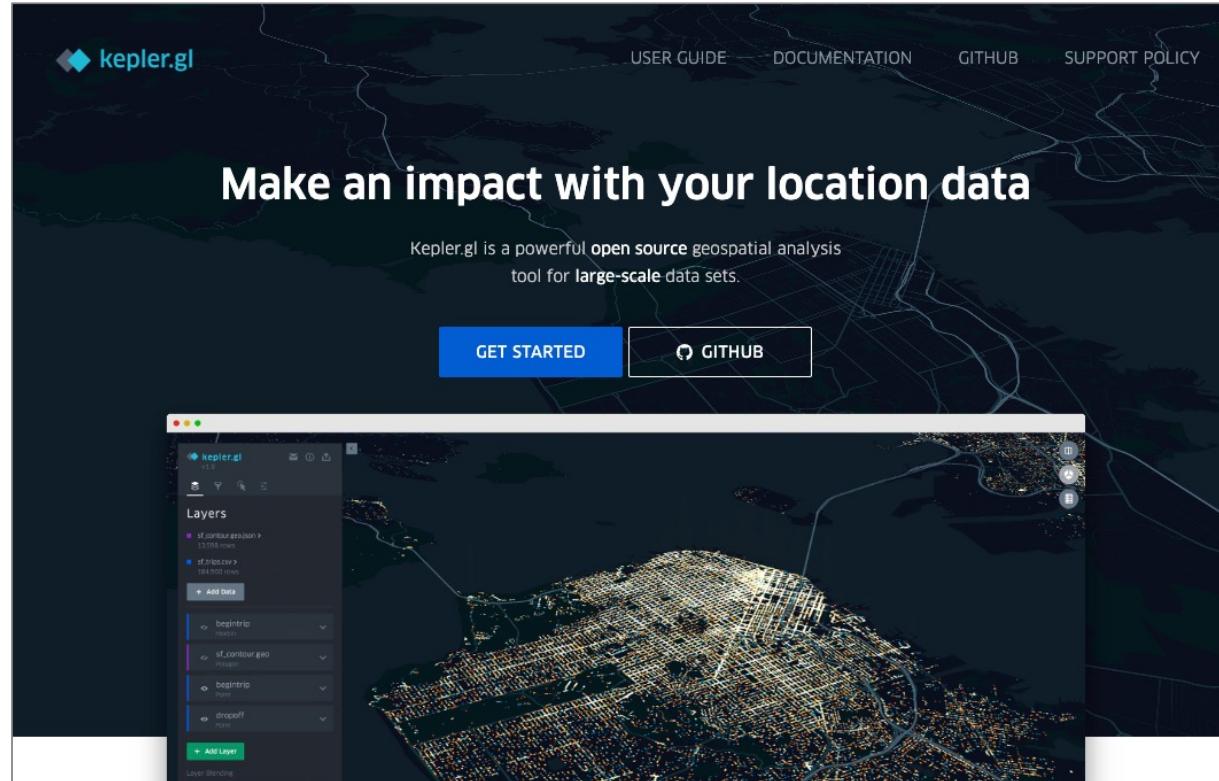


Future-Ready Skillset

Online mapping platform

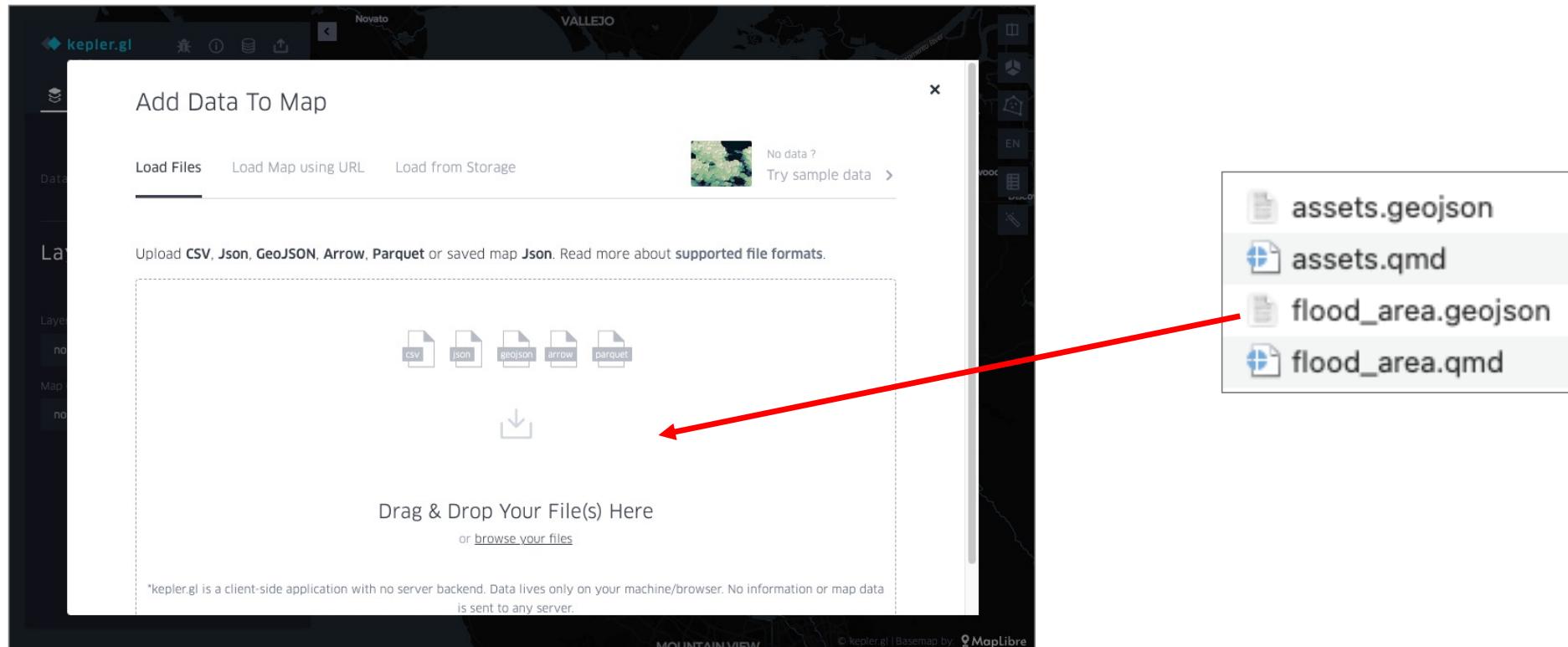


KeplerGL Online Map Platform

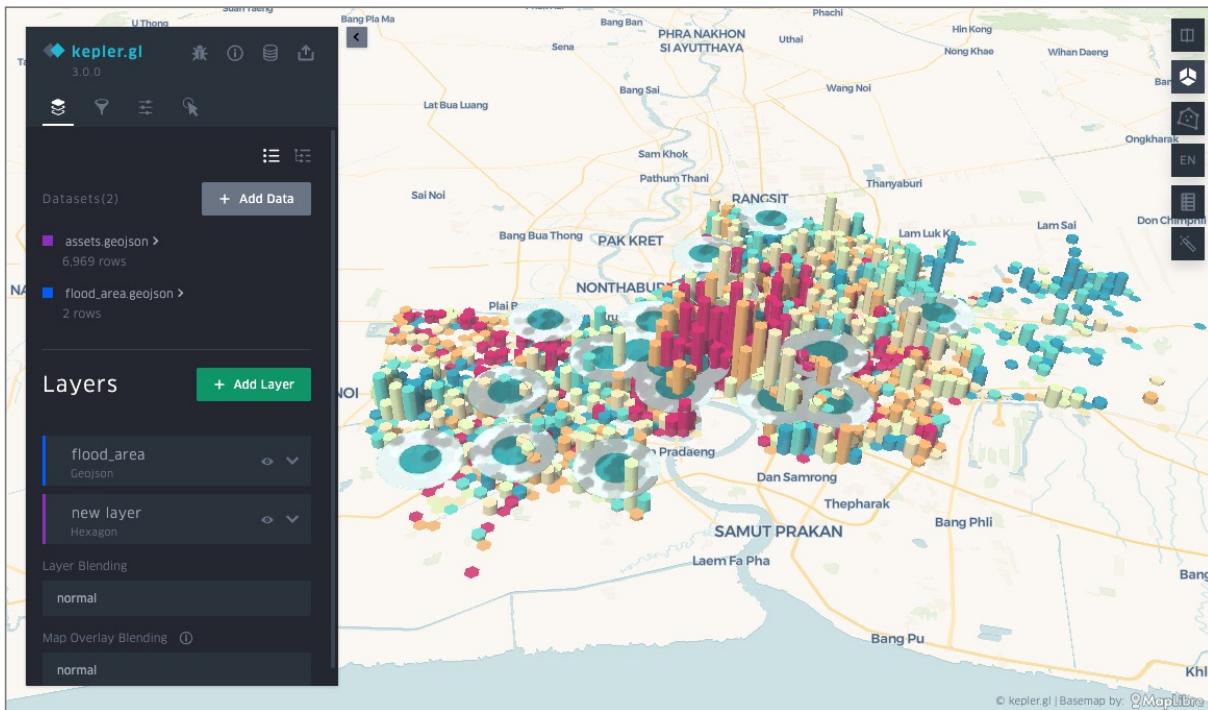


<https://kepler.gl/>

KeplerGL: Upload our data



KeplerGL: Configure the map



1. Add asset.geojson

- Make Hexbin style
- Colorize
- Extrude height

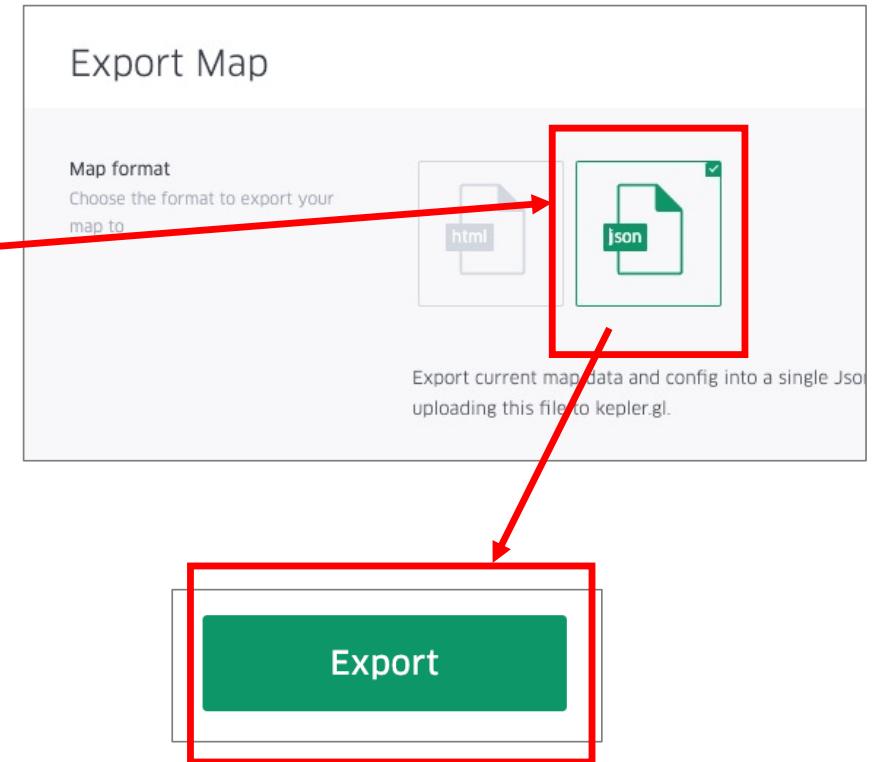
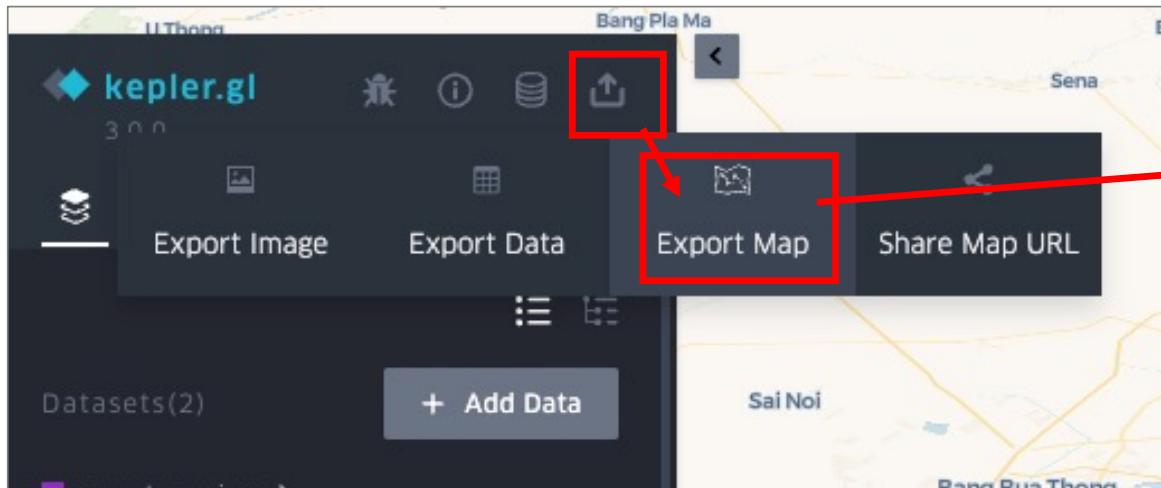
2. Add flood_area.geojson

- Colorize

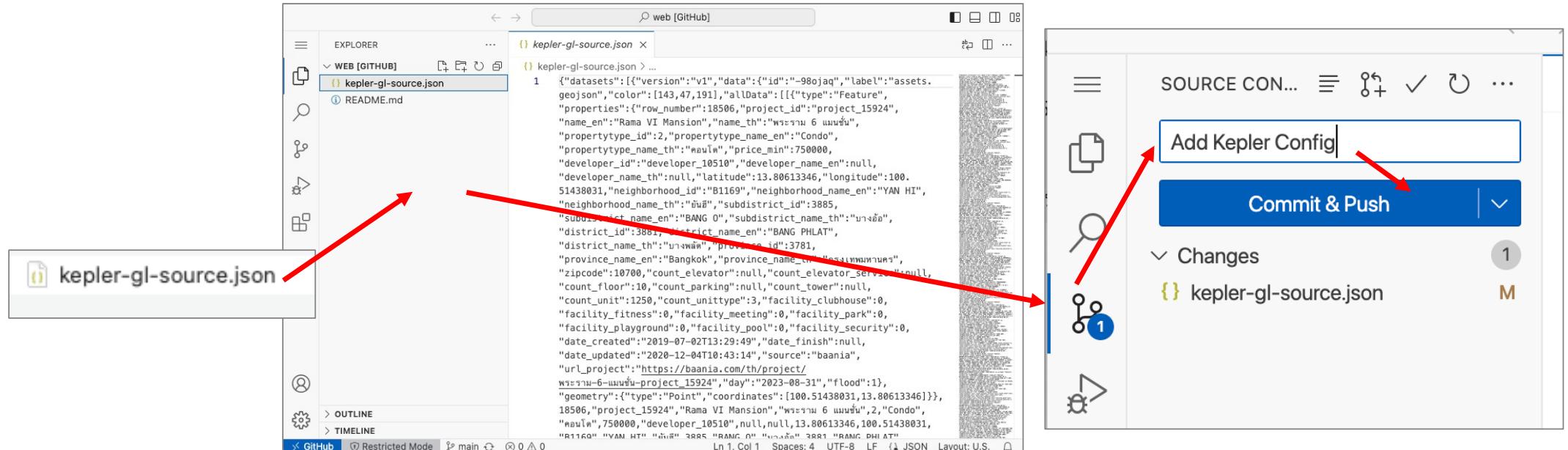
3. Lighting

- Light & Shadow
- Brightness & Contrast

KeplerGL: Export map preset



KeplerGL: Add map preset to Git



Drag and Drop
kepler config file

<https://vscode.dev/>

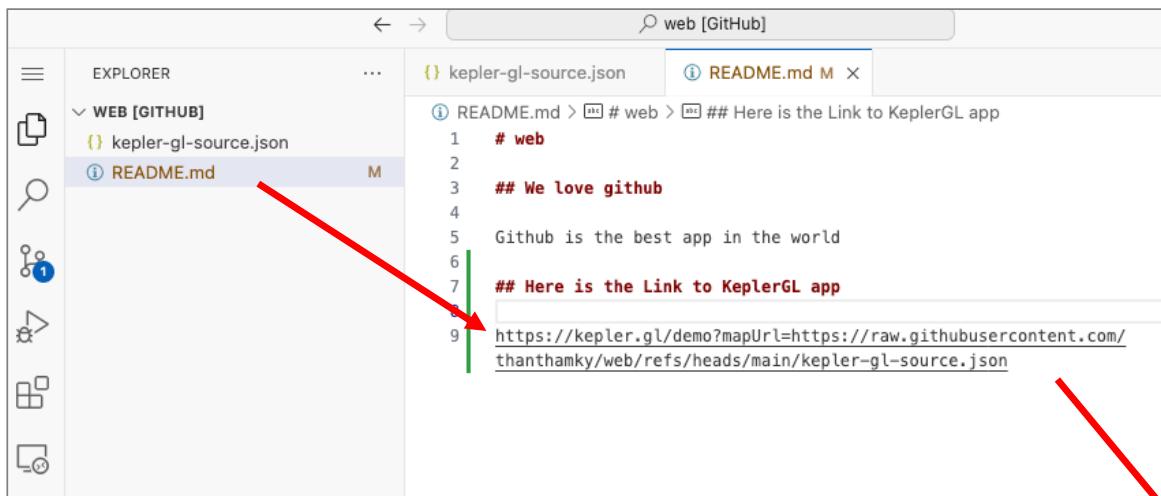
Git >
input commit message >
Commit & Push

File access through git

<https://raw.githubusercontent.com/{username}/{reponame}/refs/heads/{branch}/{file}>

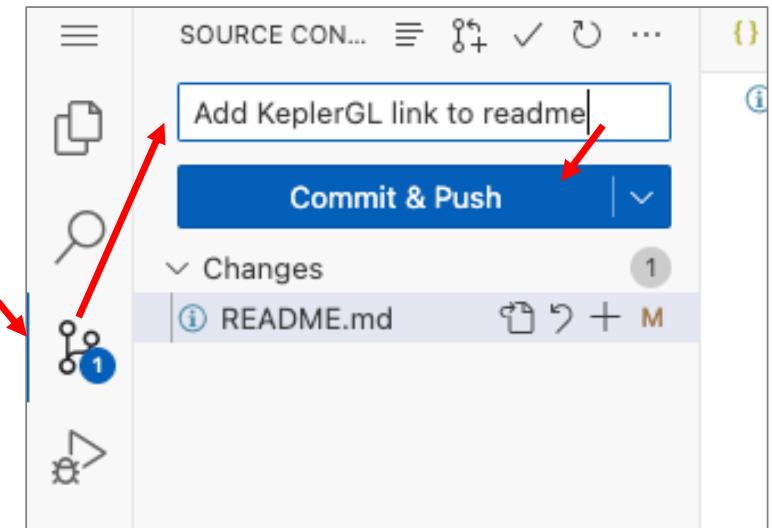
<https://raw.githubusercontent.com/>
thanhamky/
[web/](#)
refs/heads/
[main/](#)
[README.md](#)

KeplerGL: Edit README to link KeplerGL app



```
# web
## We love github
Github is the best app in the world
## Here is the Link to KeplerGL app
https://kepler.gl/demo?mapUrl=https://raw.githubusercontent.com/thanthamky/web/main/kepler-gl-source.json
```

<https://kepler.gl/demo?mapUrl=https://raw.githubusercontent.com/thanthamky/web/main/kepler-gl-source.json>



KeplerGl: Git link to your KeplerGL app

A screenshot of a GitHub repository page for a project named 'web'. The repository has three commits from user 'thanthamky': 'Add KeplerGL link to readme' (379b193, 1 minute ago), 'README.md' (Add KeplerGL link to readme, 1 minute ago), and 'kepler-gl-source.json' (Add Kepler Config, 15 minutes ago). The README file content includes:

```
web

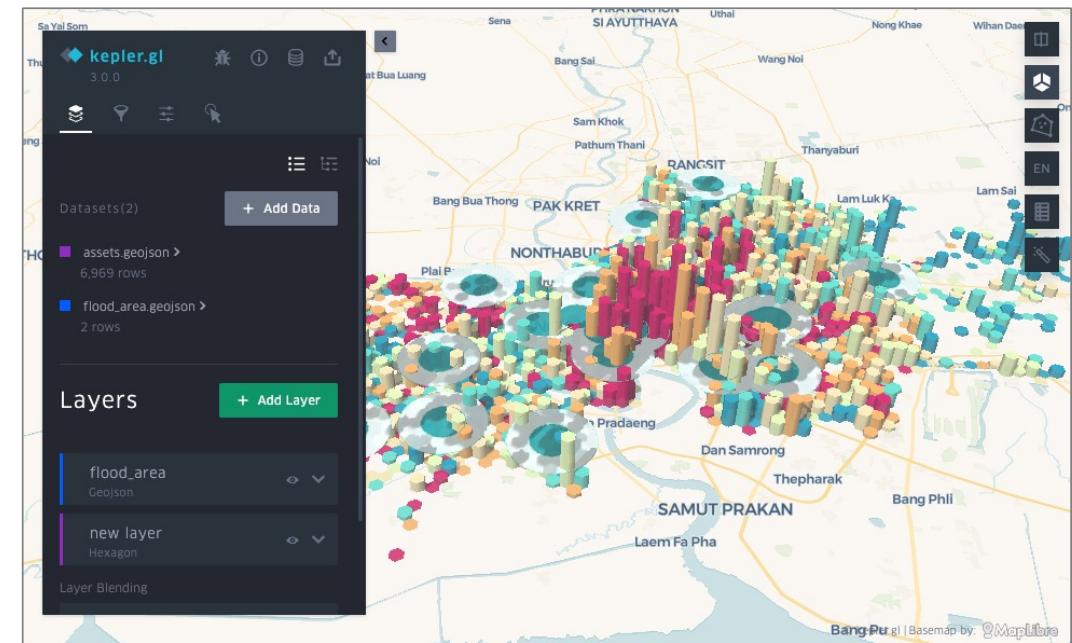
We love github

Github is the best app in the world

Here is the Link to KeplerGL app

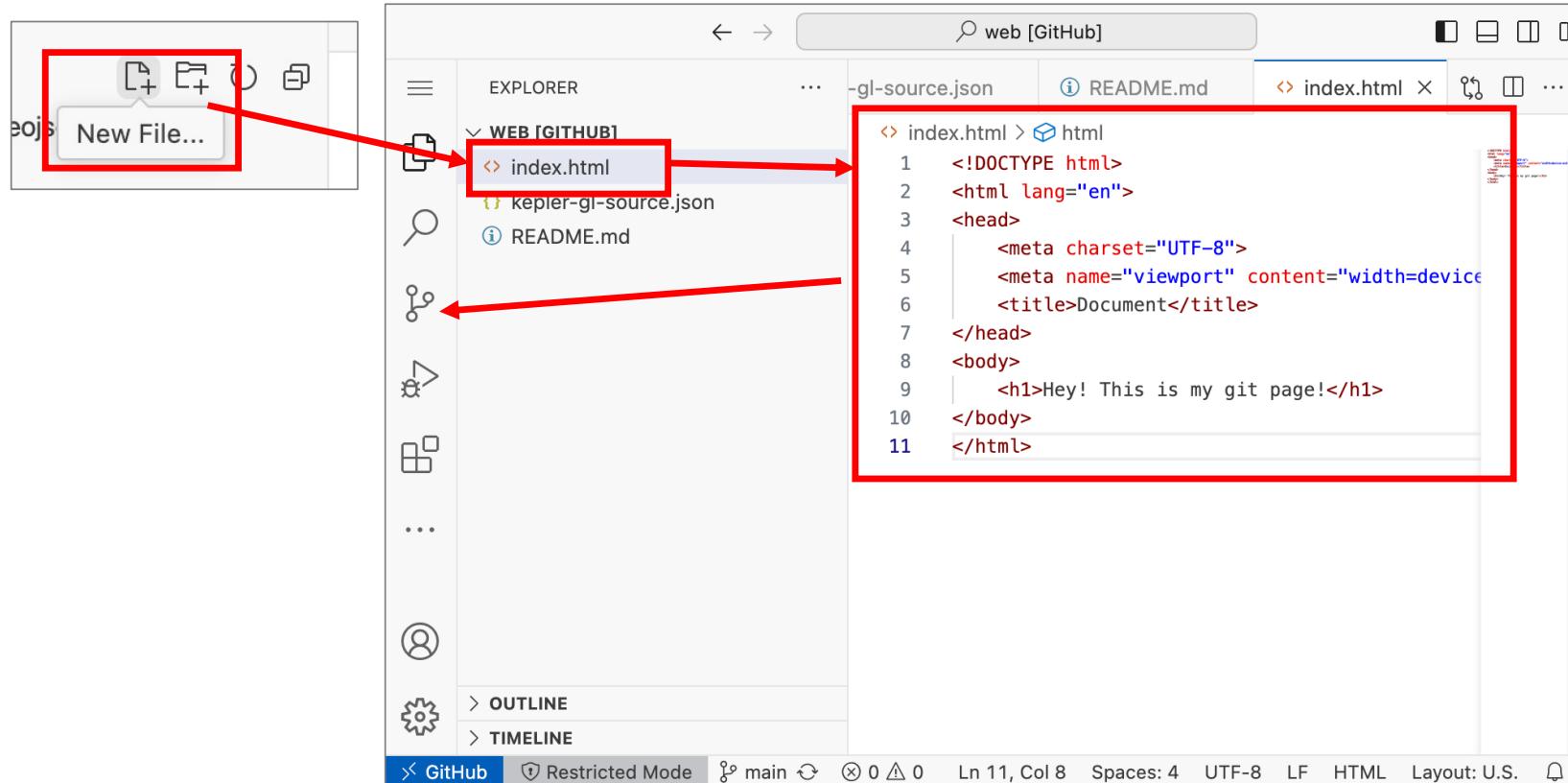
https://kepler.gl/demo?  
mapUrl=https://raw.githubusercontent.com/thanthamky/web/refs/heads/main/kepler-gl-source.json
```

Git repo page



Saved Kepler map

Git page: Create a page



Git page: see index.html file

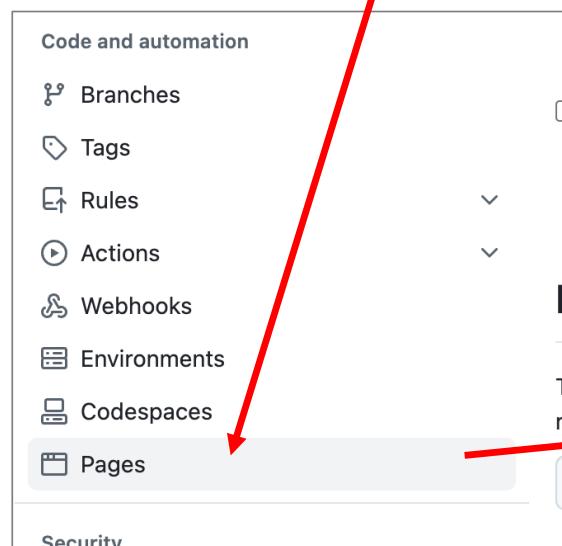
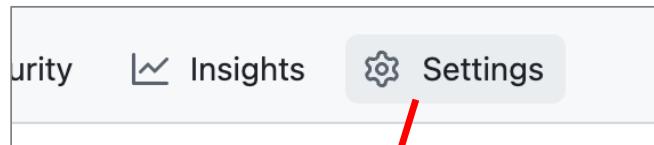
The screenshot shows a Git commit history with the following details:

- Branch: main
- Actions: Copy, Share, Go to file, Add, Code

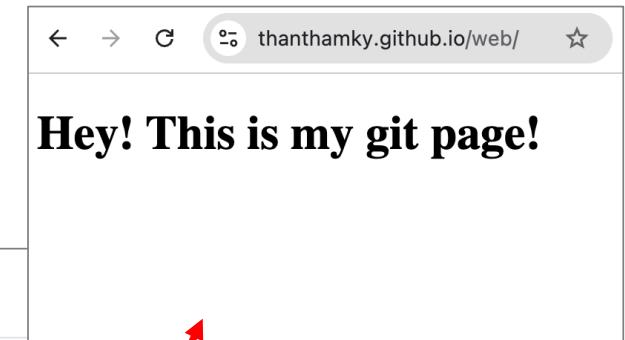
Commit	Message	Author	Date
move inde...	925f48e · 3 minutes ago	thanthamky	
README.md	Add KeplerGL lin...		6 hours ago
index.html	move indexhtml		3 minutes ago
kepler-gl-source....	Add Kepler Config		7 hours ago

Setting up Git page

<https://username.github.io/repo/>



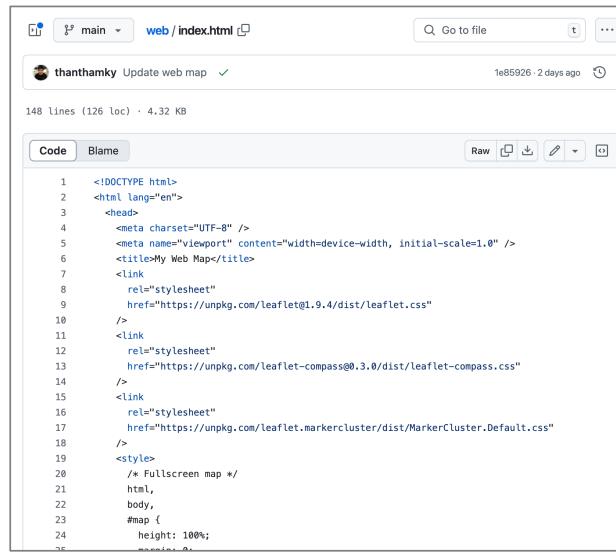
A screenshot of the GitHub Pages configuration interface. The title is 'GitHub Pages'. The main text says: 'GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.' Below this is the 'Build and deployment' section. Under 'Source', there is a dropdown menu set to 'Deploy from a branch'. Under 'Branch', it says 'GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository.' A link 'Learn more about configuring the publishing source for your site.' is provided. At the bottom are three buttons: a dropdown for 'main', a dropdown for '/(root)', and a 'Save' button.



Copy the simple web map code

<https://github.com/thanthamky/web/blob/main/index.html>

1. Copy content in index.html

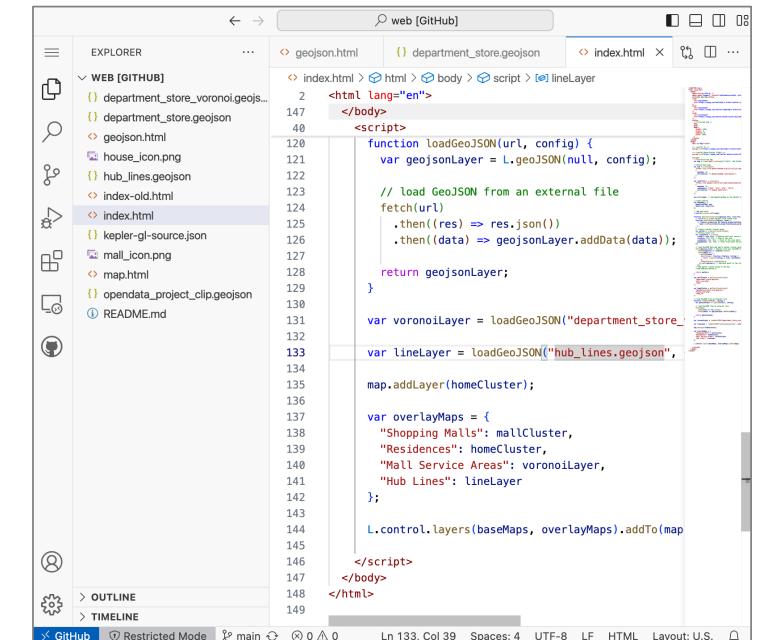


The screenshot shows the GitHub interface with the file 'index.html' selected. The code editor displays the HTML content of the web page.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>My Web Map</title>
<link rel="stylesheet" href="https://unpkg.com/leaflet@1.9.4/dist/leaflet.css" />
<link rel="stylesheet" href="https://unpkg.com/leaflet-compass@0.3.0/dist/leaflet-compass.css" />
<link rel="stylesheet" href="https://unpkg.com/leaflet.markercluster/dist/MarkerCluster.Default.css" />
<style>
/* Fullscreen map */
html,
body,
#map {
height: 100%;
}
```

2. Copy data to repo

3. Push to repo



The screenshot shows a code editor with the GitHub repository 'web' open. The left sidebar shows the file structure: index.html, department_store.geojson, house_icon.png, hub_lines.geojson, index-old.html, kepler-gl-source.json, mall_icon.png, map.html, opendata_project_clip.geojson, and README.md. The right pane shows the content of the 'index.html' file.

```
<html lang="en">
</body>
<script>
function loadGeoJSON(url, config) {
var geojsonLayer = L.geoJSON(null, config);

// load GeoJSON from an external file
fetch(url)
.then((res) => res.json())
.then((data) => geojsonLayer.addData(data));

return geojsonLayer;
}

var voronoiLayer = loadGeoJSON("department_store_.geojson");
var lineLayer = loadGeoJSON("hub_lines.geojson");
map.addLayer(homeCluster);

var overlayMaps = {
"Shopping Malls": mallCluster,
"Residences": homeCluster,
"Mall Service Areas": voronoiLayer,
"Hub Lines": lineLayer
};

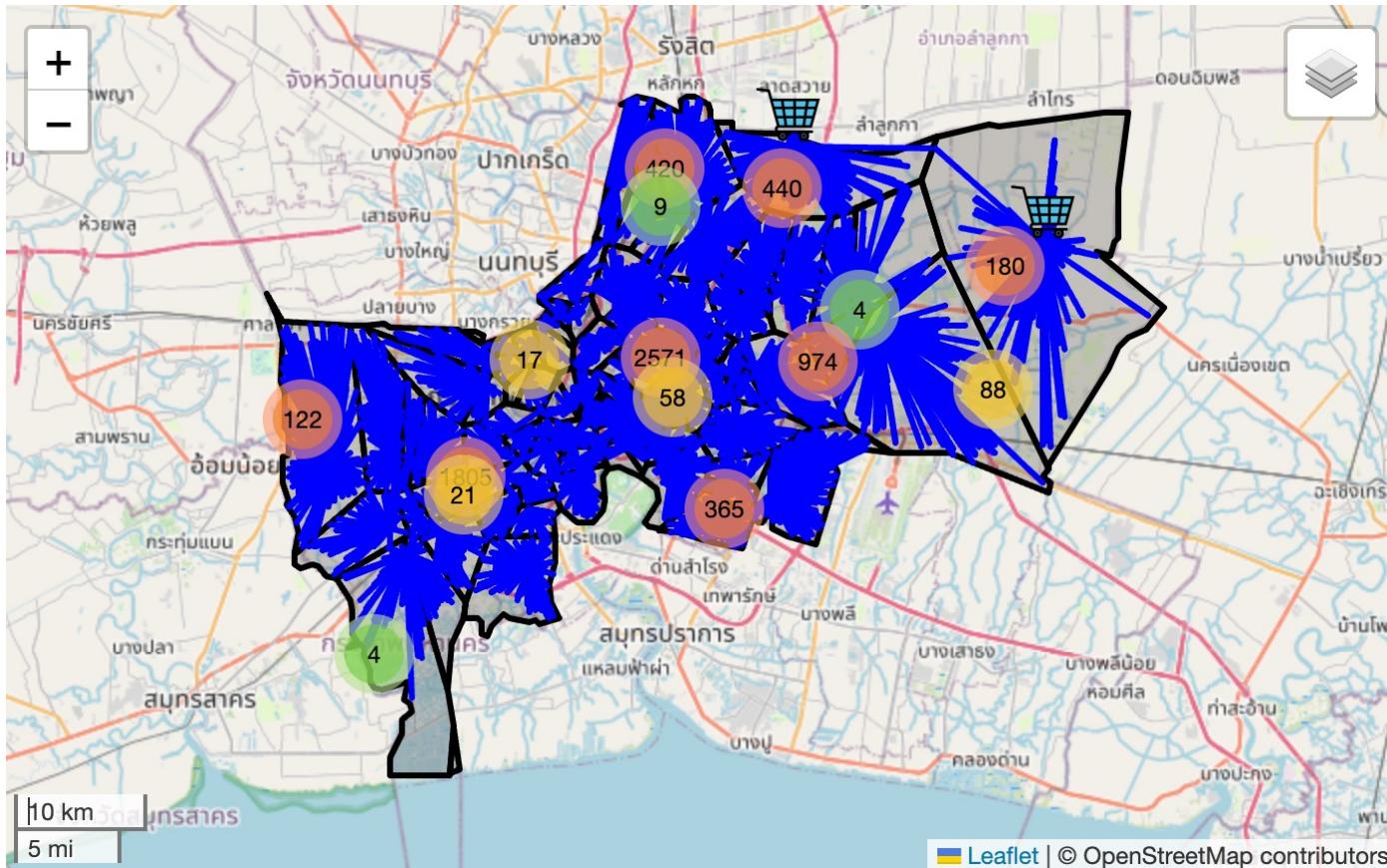
L.control.layers(baseMaps, overlayMaps).addTo(map)
</script>
</body>
</html>
```

From code in repo

To your repo

Hoorey! Your apps here ...

<https://thanthamky.github.io/web/>



End-to-End GIS development in the box

