

The following are questions I asked ChatGPT for lab 1 and it's responses.

```
<script> L.mapbox.accessToken =  
'pk.eyJ1IjoiYm5hdmFycm8yMyIsImEiOiJjbHRsdDR6d2MxZjY1MmtxbXVpd3BoOXhsIn0.w_vOcb  
_9Pk3whht0RMfEjA'; var map = L.map('map').setView([51.0447, -114.0719], 10); // Adding  
OpenStreetMap tiles as the base layer  
L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', { attribution: '&copy; OpenStreetMap  
contributors' }).addTo(map); // Mapbox style layer L.tileLayer(  
'https://api.mapbox.com/styles/v1/bnavarro23/clttr1rn015l01oi5ibz8ket/tiles/{z}/{x}/{y}?access_to  
ken=' + L.mapbox.accessToken, { tileSize: 512, zoomOffset: -1, attribution: '© <a  
href="https://apps.mapbox.com/feedback/">Mapbox</a> © <a  
href="http://www.openstreetmap.org/copyright">OpenStreetMap</a>' }).addTo(map);
```

How to add
a button for this layer

ChatGPT

ChatGPT

To add a button to toggle the Mapbox style layer on and off, you can create a button in your HTML and then handle its click event in JavaScript to add or remove the layer accordingly.

Here's how you can do it:

First, add a button to your HTML:

htmlCopy code

```
<button id="toggleLayerButton">Toggle Mapbox Style Layer</button>
```

Then, modify your JavaScript to handle the button click event and add or remove the Mapbox style layer accordingly:

javascriptCopy code

```
// Function to toggle Mapbox style layerfunction toggleMapboxLayer() {  
  if(map.hasLayer(mapboxLayer)) { map.removeLayer(mapboxLayer); } else{  
    map.addLayer(mapboxLayer); } } // Event listener for the toggle layer  
button=document.getElementById('toggleLayerButton').addEventListener('click', function() {  
  toggleMapboxLayer(); }); // Adding Mapbox style layervar mapboxLayer = L.tileLayer(  
'https://api.mapbox.com/styles/v1/bnavarro23/clttr1rn015l01oi5ibz8ket/tiles/{z}/{x}/{y}?access_to  
ken=' + L.mapbox.accessToken, { tileSize: 512, zoomOffset: -1, attribution: '© <a  
href="https://apps.mapbox.com/feedback/">Mapbox</a> © <a  
href="http://www.openstreetmap.org/copyright">OpenStreetMap</a>' }); // Initial addition of  
Mapbox style layermap.addLayer(mapboxLayer);
```

With this setup, clicking the "Toggle Mapbox Style Layer" button will add or remove the Mapbox style layer from the map. Make sure to place this JavaScript after your map initialization code.

From <<https://chat.openai.com/c/5a661067-06ff-4255-88ef-248495f08b06>>