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IDCE 30262: Web Mapping and Open-Source GIS

Professor Korde

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**Lab 6: Leaflet.js, APIs, and Plug-Ins.**

1. **Link to GitHub Page:**
2. **Question 1: What does your map look like after applying  
   ‘mapbox.mapbox-traffic-v1’? What is the minimum zoom level for  
   this tileset to be visible?**

This tileset is visible at the first zoom level. Zoom Level: 1. However, the streets themselves are only visible at and after Zoom Level: 5.

The appearance of the tile is yellow lines showing the major roads and highways.

1. **Question 2: Why are {s}, {z}, {x}, and {y} in the address? Provide an**

**example of an address where you manually input {s}, {z}, {x}, and {y},**

**describe what your map link will show when I open it.**

Graphical user interface, text, application, email

Description automatically generatedIn the URL, the {x} and {y} have to be replaced by the x and y Tile numbers and {z} by the zoom level. Sometimes there is a $ before the {x}. In those with a {s}, it represents a subdomain. Subdomains are used to help with browser parallel requests per domain limitation. These subdomains are typically single letters 'a', 'b' and 'c'.

Z = 1

X = 20

Y = 30

Returns Service Error

1. **Question 3: What River does your polyline follow? Change your tile  
   layer if you need to but change it back to your favorite OpenStreetMap  
   tile layer after you get the river name.**

River Thames

1. **Question 4: Take a screenshot of the polyline you drew on your map.**

**Graphical user interface, text

Description automatically generated**

**A picture containing text, screenshot, monitor, indoor

Description automatically generated**

1. **Question 5: Save a screenshot of the search result of your hometown.**

**Leaflet has A TON of plugins. You can view many more plugins,**

**including alternatives to this Geocoding plugin here:**

**Map

Description automatically generated**

**Plugins:**

1. **Fullscreen: Add a toggle option to set up map to full screen mode**
2. **Bounce: Added to the house button- icon bounces on click**
3. **Mouse Position: When hovering over map the lat long location of the map is given**
4. **Graticule: Add a graticules on map**