# GGR472 LAB 2: Introducing Mapbox GL JS (6.25%)

## Lab objective

During week 4’s class, you used Mapbox Studio to create a new style. A Mapbox style is a JSON formatted file that conforms to the Mapbox Style Specification and is rendered in the browser as graphics with OpenGL. You may think of a map style as a base map which loads on initialization.

Mapbox GL JS is JavaScript library that allows you to build interactive and customizable web maps. The aim of the lab is to bring Mapbox Studio and Mapbox GL JS together. You will use Mapbox GL JS to add a map style to a web page and use methods within the library to add additional data to the map which you will visualize as layers.

The lab is worth 6.25% of your final grade, however, keep in mind that the primary purpose of the labs is to develop knowledge and skills which may be applied in your group project. You may use the exercises covered in weeks classes as guidance.

**Due Tuesday 13 February, 5pm**

# Create a web map

Using Mapbox Studio and Visual Studio Code, create a new web map. As a minimum, the web map should include the following:

* A Mapbox style you have created (as a basemap)
* Two data sources and layers that you add to the map via JavaScript

The layers in your web map may be added from any source (e.g., GeoJSON or vector tileset) and the content of the layers must be related conceptually and/or spatially. You may like to explore the [examples](https://docs.mapbox.com/mapbox-gl-js/example/) available through mapbox for ideas on how to add different data types to the map and how to incorporate data driven styling for layers.

As with lab 1, consider ways to make your web map product more sophisticated. The design of your map and data should be coherent and may be situated as part of a web page with supplemental information.

Grades will be awarded based on creativity, coherence, complexity, and demonstration of understanding through commented code.

Once complete, upload your files to an online GitHub repository and deploy your website using GitHub pages.

**Submit a link to your GitHub repository AND a link to your website via Quercus**