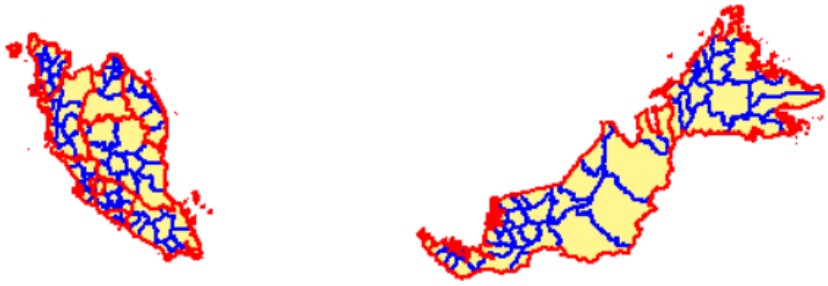
TDS 3401
Assignment 3: Supplementary Material

How to obtain GeoJSON or TopoJSON files for Malaysia?

In order to display the Malaysia map in D3, we need to first obtain the GeoJSON / TopoJSON files for Malaysia. The simple steps to obtain for the GeoJSON / TopoJSON files for a specific country or region are as follows:

1) Obtain the shape files. You can get it from http://www.gadm.org/country. The following diagram illustrate the shape files for Malaysia with detail for states and districts:



2) Next, you need to convert the shape files (for the level of detail that you desired) GeoJSON or TopoJSON file. To do that, you can either download a conversion application or you can submit your shape files to online app such as http://mapshaper.org/ and export it to the GeoJSON / TopoJSON format. Note that you need to submit at least two files with extension .shp and .dbf respectively to the mapshaper.

3) After you obtained the GeoJSON / TopoJson files, you can test it with D3 program.

To reduce your learning curve for this Assisgnment 3, I have converted the **Malaysia map** with level of detail up to state level to both **GeoJSON and TopoJSON** format and provide the **D3 codes** in **my_geomap.html** and **my_topomap.html** respectively to display the map. In order to use it for your Assignment 3, you will still need to do some pre-processing to combine one of these json file with your chosen data file.

I have also provide the shapefiles with different level of details (MYS_adm_shp.zip). If you would like to obtain the map with border for district level, you can convert the MYS_adm2 shape files using the online convertor, **mapshader.org**.

As in your future career, your data analysis would likely involving analyzing and visualizing data for Malaysia only, I would **strongly encourage you to choose Option 1 or Option 2 that involve visualizing data of a Malysian map**. Besides, it's also good for you to try to whole conversion process by following the steps outlined above.

References:

- **Command-Line Cartography**
  https://medium.com/@mbostock/command-line-cartography-part-1-897aa8f8ca2c
- **From Shapefile to GeoJSON**
  http://vallandingham.me/shapefile_to_geojson.html