**WEB GIS GEOG417 SEC 001 Spring 2021**

**Assignment 2**

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**1) How would you add another class to your choropleth map?**

I will add another value into the *getColor* function. For example, I add the highlighted class in yellow for the population of China province in 2010.

*function getColor(value) {*

*return value > 100000000 ? '#800026':*

*value > 80000000 ? '#BD0026':*

*value > 50000000 ? '#E31A1C':*

*value > 20000000 ? '#FC4E2A':*

*value > 10000000 ? '#FD8D3C':*

*'#FEB24C';*

*}*

**2) How would you add another class to your legend?**

I will add another class corresponding to the added class into the *Grades* under the *L.DomUtil.create* function.

*legend.onAdd = function (map) {*

*var div = L.DomUtil.create('div', 'legend'),*

*grades = [0, 10000000, 20000000, 50000000, 80000000, 100000000];*

*div.innerHTML = '<b>Population 2010 <br><br></b>';*

*for (var i = 0; i < grades.length; i++) {*

*div.innerHTML +=*

*'<i style="background:' + getColor(grades[i] + 1) + '"></i>' +*

*grades[i] + (grades[i + 1] ? '&ndash;' + grades[i + 1] + '<br><br>' : '+');*

*}*

*return div;*

*};*

**3) How might you create a map where all map layers are toggled OFF by default? Why might this be a useful option?**

I might use a variable (or object) to contain all the map layers. Then I use the L.Control.Layers to control this variable toggled off by default. Sometimes there would be plenty of map layers in a project. It can get messy if all the layers are toggled on by default when load the map, which also slow the functions.

3857 900913 web mapping projection.

GeoJson

Csv

Xml. Kml, gml \

Feature layer renders