**GEOG370: Test 1 Practicum**

**Due date: 3:30pm on Tuesday, October 3nd on Sakai**

For the applied portion of Test 1, you will create a PNG map of a georeferenced image of Boston Logan Airport from 1971, and two digitized vectors with visible attributes labeled.

**Directions:**

1. Using at least 6 control points, georeference the image “Boston1971.tiff” using “Boston2019\_EPSG6348.tif”. Save your ground control points and upload them to GitHub. Note that the image “Boston2019\_EPSG6348.tif” is projected in UTM North Zone 19 (EPSG 6348).
2. Digitize at least two polygons that indicate areas that have undergone change since 1971. This could be new construction, landscaping changes, etc. Select an appropriate symbology for your polygons. You should add a readable attribute (new field) to the polygons you create, and add this field as labels on your map.
3. Digitize a point over Boston Logan Airport that includes the name of the airport as a readable attribute (new field), and add this a label on your map. Make sure you select the appropriate symbology.
4. Create a PNG map that displays your georeferenced image, the vectors you digitized (at least two polygons and 1 point vector). Note that you will need to alter the transparency of your georeferenced image to see the basemap below. Your basemap can be the “Boston2019\_EPSG6348.tif” file, or it can be any tile layer from QGIS like OpenStreetMaps or other options available.
5. Your map must include a basemap, a legend, a north arrow, a scale bar, a title, and your name. The vectors you digitized need to have a visible label.
6. Export your digitized polygons and point as a GeoJSON in ESPG:4326, and add it to your GitHub.

**Submission Instructions:**

* Submit the map you created as a PNG on Sakai.
* In the Sakai submission text box, add a link to your digitized polygons and point as a GeoJSON. Also add the link to your ground control points.