GEOG 370 Midterm

Valen Zhang

* Go to leaflet.com or other webpage to find a map of one’s choice, copy their tile layer html.
* Open GIS and add an xyz connection and paste the tile layer html. Click add.
* Install Georeferencer GDAL in plugin from Raster -> Georeferencer
  + In the pop up
    - Add control points
      * Add a new raster, and choose unrectified\_historical\_central park
      * Add a point from the options in the tool bar, and in the pop up, choose from map canvas.
        + Match the point on the raster base map with the point on the map.
    - Save the referenced map
      * Click “save GCP point as…” to save the points
    - Go to transformation setting, choose “polynomial 1” and “cubic” resampling method, modify the saving path
    - Click “Start Georeference”
  + Drag the finished map to the layer panel, now the Manhattan Central park location would overlap each other.
* Drag the shapefiles of Manhattan, Manhattan subway map and Manhattan places to the layers panel. Those layers should be above the raster base map so that they would show up correctly.
  + Subway lines should be above the rectified central park layer.
* Create a new shapefile Layer, called route to Times Square, and another layer called Central Park reservoir.
  + Click line string for route to Times Square and polygon for Central Park reservoir.
* Click open a new map view, choose add map and to add the map created.
  + Add a north sign
  + Add a legend, then modify the layers name in the legend.
  + Create a title called Manhattan, MY and Historical Central Park, and then Valen Zhang
  + Also add a scale at the bottom of the page.
  + Save the map as a PNG and submit.