
**GEOG 489 Programming for GIS
Lab 4****Geospatial Data Visualization**

Due: March 10th, 11:59:59 PM

Grading: 5 points

Late penalty: 1 point subtraction per day (No points after 5 days)

Introduction

In this lab, you will analyze the geographical distribution of the population of the State of Illinois and its temporal changes from 1980 to 2010. You will find that most of the tasks were covered in the lecture, and it is another reproduction of the tasks. The difference is the study area (Illinois instead of Texas), and we focus on temporal changes of the general population instead of COVID-19 cases.

Things to be submitted: ONE Jupyter notebook
(GEOG489_Lab4_[YOUR_NET_ID].ipynb).

Tasks

1. Launch CyberGISX (<https://cybergisxhub.cigi.illinois.edu/>) and create an empty Jupyter notebook (or you can reuse other notebooks created in earlier labs).
2. Copy and paste (or type) the following code into the cell you just created. This will download the lab materials from the GitHub repository to your CyberGISX environment.
If you want to create a new cell, you can press 'b' on your keyboard or click Insert -> Insert Cell Below on the menu.

```
!svn checkout https://github.com/jparkgeo/GEOG489/trunk/Labs/Lab4
```

3. Navigate to the root folder of your CyberGISX environment. You will see a folder named 'Lab4'. Go inside of the folder and open 'Lab4_Geospatial_Data_Visualization.ipynb'.
4. Finish the tasks described in the notebook and save the notebook in your local directory for submission.
Name schema: 'GEOG489_Lab4_[YOUR_NET_ID].ipynb'

Done!! Please submit the deliverables to learn.illinois.edu.