

Final Project

Due Time: Dec. 12th 2016 (Monday) @ 11:55 PM

*The final project is completely **INDIVIDUAL**, not a cooperative project. Any form of collaboration among class participants or utilization of other's work in past or presents is strictly not permitted. You're free to ask questions on Piazza or directly email instructor if any issue is encountered towards finishing this project.*

Using ArcGIS Online, create and deploy a Story Map that describes, analyze and presents a topic of interest. Students are required to use at least **FOUR** datasets (downloaded from online sources or manually edited by yourself) in their project. The final maps shown in the Story Map should at least include **TWO** results of some spatial analysis (i.e. you do not have to show all the data you originally downloaded from online sources.) Some example of the spatial analysis will be new dataset representing land and property values inside 100 feet of stream with slope smaller than 10 degrees or showing the average vehicle ownership for TAZs within the 1-mile buffer to transit stations and etc. Use your story map as the primary mode of communication to present your topic. Preference is given to those who integrate a variety of data formats and/or tools into their project. The minimum requirement for data formats will be **THREE** (e.g. csv, shapefile, raster file, feature class and etc.) The minimum number of tools you have to use is **FIVE** (e.g. select by attribute, select by location, clip, intersect, union, spatial join, spatial analysis tools, and etc.) Make it as interactive as possible. Deploy the application from your prism directory whenever possible.

Please write a project report/user guide (less than 5 page), which should include (at a minimum) the following items:

- Brief project description
- Methods and data sources used to create data layers (especially for layers where spatial analysis is performed)
- Links to your story map/data/application (If the link fails, I will take 5 points off)
- Instructions on how your story map should be used/interpreted by viewers (think it as a user guide)
- Problems encountered

Please do not include maps in your report. Try to explain how to use your Story Map to address your topic. Instructional screen captures are permitted in the report. Videos for how to use the story map is also permitted.

The project will be graded based on the amount of spatial analysis you incorporated in to the story [50%], cartographic/presentation skills [40%], and final report [10%]. For each component, the student who ranked the highest will receive the full score. In other words, the student who uses the most analysis tools will receive 50 points. Other student's grade will be interpolated based on the number of tools you used. Students who used the minimum number of tool will receive 40 pts (or a B) for this part. Cartographic/presentation skills will be evaluated based on the aesthetic effect of the maps, please pay attention to the details of the Story Map. If you only do the minimum work for the final project, then you will receive a B.

Deliverables:

A **pdf** report named as “finalProject_yourgtaccount.pdf”. Upload the pdf to public_html folder under your prism directory and submit the link to the pdf via T-square.

* Reports longer than 5 page will be penalized. So please be concise.