SOC 4650/5650: Lab-01 - Introduction to ArcGIS

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Directions

Complete all of the following questions using the data from the
`lecture-02` repository on GitHub. You'll be making a map of fire
station locations in the City of St. Louis. Your ArcGIS Project, in-
cluding map output, should be *ready* to be uploaded to your assign-
ments repository by 4:15pm on Monday, January 28th, 2019. We'll go
through the submission itself together as a class.

Analysis Development

Download Data

a. Download the `lecture-02` repository from GitHub - there is a
   green button that reads Clone or download that is visible in the repo.
   Click on it and then choose Download ZIP.

b. Extract the `.zip` file if necessary and save it to your Desktop.

Create a Project Folder System

c. Open ArcGIS Pro and choose Blank under Create a new project.
   Name the project `Lab-01` and save it to your Desktop.

d. Reduce ArcGIS Pro for a moment. On the Windows File Explorer
   app, drag the `data/` folder within `lecture-02` into the `Lab-01`
   project.

e. In ArcGIS Pro, click on Folders in the Contents pane. In the center
   Catalog window, double-click on `Lab-01` and verify that the `data/`
   folder is visible. If it is not, you may need to re-start ArcGIS Pro
   and/or verify that you moved the data to the correct location.

Part 1: Create Map

1. In the Catalog pane, double-click on the data/ folder and again on
   STL_BOUNDARY_City. Right-click on `STL_BOUNDARY_City.shp` and

choose Add To New Map.

2. Once the map loads, right-click on the `STL_BOUNDARY_City` entry in the Contents pane on the left side of the screen and choose Symbology.

3. In the Symbology pane, click on the color swatch and choose the middle Black Outline option.

4. Change the basemap to a different basemap of your choosing.[1]

[1] *Hint:* The Basemap button in the Map ribbon. This was discussed in the reading for this week!

5. Click on Add Data in the Map ribbon, choose Data and then click through `Folders ▷ Lab-01 ▷ data ▷ PublicSaftey.gdb` and choose the STL_PUBLICSAFTEY_FireStations data.

6. Change the symbology of the fire stations layer.[2]

[2] *Hint:* See page 27.

7. Select the fire stations layer again if necessary, and then the Labeling ribbon. Enable labeling[3] Then, under the Field dropdown, choose the `stationID` variable.

[3] *Hint:* See pages 28-29.

8. Switch tot he `Share` ribbon and select Export. Change the Save as type dropdown to `.png`. Choose the `Lab-01` project folder and then right-click and select New ▷ Folder. Name the new folder `results`. Save your map in this new `results` folder as `lab-01-map.png`. Click Export.

9. Close ArcGIS Pro, and opt to save changes to your project if prompted.

Reminders

Remember that a replication file will be posted on GitHub and linked to from the course website.