SOC 4650/5650: Lab-01

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Directions

Please complete all steps below. Your final map image, log-file, and markdown file with answers should be uploaded to your GitHub assignment repository by 4:20pm on Tuesday, January 24th, 2017. This lab requires data distributed at the beginning of class on Tuesday, January 17th, 2017. A copy of these data are also available in the `week-01` repository on GitHub.

Getting to Know Stata

1. Open up Stata, and *from within Stata* go to File ▷ Open. Open up the file `shawCrime2014.do` from the `week-01` directory we've added to your desktop. This should open up the do-file editor window.
2. Scan through the do-file's contents. Text highlighted in green between the `/***` and `***/` symbols will be exported as text when the do-file is completed. The commands in-between will be exported along with their output.
3. Execute the do-file by clicking the Do icon on the do-file editor's toolbar. Ensure that the file executes without error.
4. Close the do-file editor window.
5. Open the Data Editor in Browse mode.
6. Look in the `id` variable for the observation with `351661` as the identification number. Make a note of what type of crime this appears to be. Also make a note of the date information that is included in this observation. Make a note of what you think the difference between the `inci` and `rpt` date variables are.[1]
7. Close Stata, and open up the `week-01` directory we've added to your desktop. Notice how a number of files have been created automatically by the do-file. We'll use this process of automatically creating and populating sub-directories to help organize your Stata work throughout the semester.

[1] You'll need to refer back to this information later.

Getting to Know ArcGIS

8. Open a new map document in ArcGIS.
9. Go to File ▷ Map Document Properties, and make sure that Store relative path names to data sources is checked.[2]
10. Add the file `shawCrime2014.lpk` to your workspace from the `week-01` directory we've added to your desktop.
11. Zoom in on the blocks around the Shaw Market (Shaw Boulevard and Klemm Street). A least one block to the north, south, east and west of the Market should be visible on your screen.
12. Go to File ▷ Export Map, and save a copy of the zoomed in image to the `Output` sub-directory of the `week-01` directory we've added to your desktop. The file should be saved as a `.png` file at 300dpi.[3]
13. Right click on the `Crime Incidents, 2014` layer and go to Selection. Choose Make This The Only Selectable Layer.
14. Use the Select by rectangle tool in the toolbar to select the crime incidents and select the crime incidents that appear to have occurred right at the Shaw Market.
15. Right click on the `Crime Incidents, 2014` layer and go to Open Attribute Table. Use the Show Selected Records icon at the bottom of the Attribute Table to limit your view to the crimes you've selected.
16. Make a note about the types of crimes you see that occurred at the Shaw Market in 2014. How many were there, and what types of crime were they?[4]
17. Also note what you think the street address of the Shaw Market is. Which attribute or attributes store that information?[5]
18. Close ArcGIS. When prompted, you should save a copy of your map document to the `Output` sub-directory of the `week-01` directory we've added to your desktop.

[2] This is an important step for *every* assignment this semester.

[3] Make sure you give this a short, intuitive filename.

[4] You'll need to refer back to this information later.

[5] You'll need to refer back to this information later.

Getting to Know Atom

19. Download and install Atom.
20. Open up Atom, and close the windows that open automatically.
21. Go to File ▷ Add Project Folder... and add the `week-01` directory we've added to your desktop. Notice how this directory is now accessible from the "tree" on the lefthand side of the window.

22. Drill down to the `Output` directory, and open up the file `shawCrime2014.md`. This was created automatically by the do-file you executed earlier.

23. Go to Packages ▷ Markdown Preview and click Toggle Preview.

24. Compare the raw text on the left pane with the formatted text on the right pane. Notice how different markup notations in the raw text corresponding with different formatting in the right pane.

25. Scroll down to the bottom and fill in the answers to questions 6, 16, and 17 of this lab. You should have noted down your answers to these questions earlier.

26. Save your document and then close Atom.

Getting to Know GitHub

27. If you have not already done so, go to GitHub and create an account. Email your account information to Chris.

28. Download and install GitHub Desktop.

29. Once you have joined the SOC 5650 GitHub organization, open GitHub Desktop and go to File ▷ Clone Repository.... Select your assignments repository and click Clone Repository. Save this to your desktop.

30. In Windows Explorer, add the map image, log-file, and markdown file to the `/Labs/Lab-01` directory.[6]

31. In GitHub desktop, *commit* your changes and then *sync* them. You should go to your assignments repository on GitHub.com and ensure that your changes did sync with GitHub's servers.

[6] We'll be sending out a video and detailed written instructions for how to do this, so keep an eye out on Slack. Use these resources to finish the lab if you need to.