

Introduction to Geographic Information Science

Lab 05

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Directions

The Stata portion of the lab requires you to use the Baltimore Homeless dataset that you cleaned for Problem Set 2.

The ArcGIS portion of the assignment will require you to complete Assignment 2-1 and Assignment 2-3 from Goor and Kurland. All instructions for those maps can be found in the book.

Once you are done, submit exported images of the *full extent* of both assignment maps, the Stata do-file, and the Stata log file in a single .zip file. This should be submitted by Wednesday, February 17th at 4:20pm. You must submit it by Monday, February 15th at noon to receive feedback before Problem Set 3 is due.

Part 1 - Stata Portion - Final Steps for Data Cleaning

1. Create a new do-file in Stata that opens your previous problem set's data.
2. Save a new copy of these data (make sure to do this after setting your working directory appropriately).
3. Update the dataset's documentation (dataset label and add relevant notes to the dataset).
4. Rename each of the following variables so that they begin with lower-case letters: `iOrganization`, `Type`, `Phone`, `Hours`, `Men`, `Women`, `WomenChildren`, `Youth`, and `Families`.
5. Create numeric binary variables using the `recode` command that represent each of the four types of services measured in the variable `typeNum`.
6. Re-order the dataset so that the four spatial variables (`x`, `y`, `streetAdd`, and `streetSuite`) come after the variable `organization` and the new variables created from `typeNum` come after that variable.
7. Create a codebook (with the proper associated log file) of these data.
8. Save all of the changes you have made to your data.