Tutorial: Exploratory data analysis in Stata

Knowing your data is a key phrase in statistics. Before conducting any sophisticated analyses, first acquaint yourself with the dataset and the variables within the dataset. We go through a sample exploratory data analysis, highlighting key commands that will arise throughout the course.

- Describe the variables in the dataset.
 - o describe
 - o codebook
- What is the **mean** systolic blood pressure at exam 1 in the study population (sysbp1)?
 - o summarize sysbp1
- What is the **standard deviation of** sysbp1?
- What is the median (50th percentile) of sysbp1?
 - o summarize sysbpl, detail
- What is the range of sysbp1?
 - o To use Stata as a calculator, use the command display.
- What is the mean systolic blood pressure in males at exam 1?
 - o summarize sysbpl if sex1==1
 - o bysort sex1: summarize sysbp1
- At exam 1, what **percent** of the study population is female?
 - o tabulate sex1
 - o tabulate sex1, missing
- How many women have prevalent hypertension at exam 1?
 - o tabulate sex1 prevhyp1
- **List** the first 50 observations for sbp1 and sex1. Hit the space bar in order to scroll through the observations.
 - o list sysbp1 sex1 in 1/50

Exploratory data analysis commands you should be familiar with:

summarize, tabulate, describe, codebook, list