Lab Worksheet IV

Univariate analysis and graphing

Today we are going to use data from the ESS 2012 again. You can find the dataset on LEARN; make sure you download **essuk12v2.dta** (notice the "v2"). In this lab session we are going to do some basic descriptive statistics, including tabulating and graphing. One of the simplest things in data analysis is reporting descriptive statistics and simple graphs that show a single variable. This is what we call **univariate analysis**, and it is very useful when trying to summarise and describe data (which in in turn helps finding patterns in the data). In Stata there are multiple ways to look at descriptive statistics. Last week you were introduced to two useful commands: describe and codebook. Today you will use one more: summarize. Let's take a look at it, try typing

summarize

and you will see a list of summary statistics for all the variables present in your dataset. This command can be shortened to su, and it allows for a selection of variables like this:

su gender tvtot

In the example above the command summarize only reports on two variables ("gender" and "tvtot"). Notice that the command is summarize and not summarise. This command, as you can see, tells you the number of observations, the mean of the variable, the standard deviation, and the minimum and maximum values a variables takes on. Let's now revise the command codebook with an extra option (remember that codebook cannot be shortened):

codebook gender tvtot, compact

As you can see, codebook, compact provides you with similar information (but not the same). In this case you get variable labels and unique values. Also notice that the command option follows a comma, which tells Stata that you have decided to use an option. You can try typing the following to see what the option compact really does:

codebook gender tvtot

The option compact presents you with a shorter report, which you might want if presenting summary statistics to someone else.