Introduction to Graphics in Stata: Exercises

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HINT: Use 'cd' (change directory) command to go to the directory with files and avoid typing paths to data (Answers to exercises assume that you are in correct directory). For instance:

cd C:\files

exercise 1: stata graph basics

1. Use auto data set

sysuse auto

- 2. Explore the relationship between mpg weight and price using scatterplots
- 3. Produce a twoway graph showing the relationship between price (y) and mpg (x) as regression line overlaid on scatterplot. Have two graphs next to each other: One for foreign and one for domestic cars.

exercise 2: descriptive statistics

1. Use auto data set

sysuse auto

- 2. Produce a histogram and a horizontal boxplot of price by foreign.
- 3. Produce a horizontal bar graph using

gr hbar

of median price by repair record (rep78) and by foreign.

exercise 3: postestimation graphs

1. Use auto data set

sysuse auto

2. Show regression fit of price on mpg by foreign using postgr3

exercise 1 solution: stata graph basics

1. Use auto data set

```
sysuse auto
```

2. Explore the relationship between mpg weight and price using scatterplots

```
d
sum
gr matrix mpg weight price, half
```

3. Produce a twoway graph showing the relationship between price (y) and mpg (x) as regression line overlaid on scatterplot. Have two graphs next to each other: One for foreign and one for domestic cars.

```
codebook foreign
```

exercise 2 solution: descriptive statistics

1. Use auto data set

```
sysuse auto
```

2. Produce a histogram and a horizontal boxplot of price by foreign.

```
d
sum
hist price, by foreign
gr hbox price, by foreign
```

3. Produce a horizontal bar graph

```
gr hbar
```

of median price by repair record (rep78) and by foreign.

gr hbar (median) price, over(rep78) over(foreign)

exercise 3 solution: postestimation graphs

1. Use auto data set

sysuse auto

2. Show regression fit of price on mpg by foreign using

postgr3

reg price mpg foreign postgr3 mpg, by(foreign)