

14 Graphing data

Working with graphs

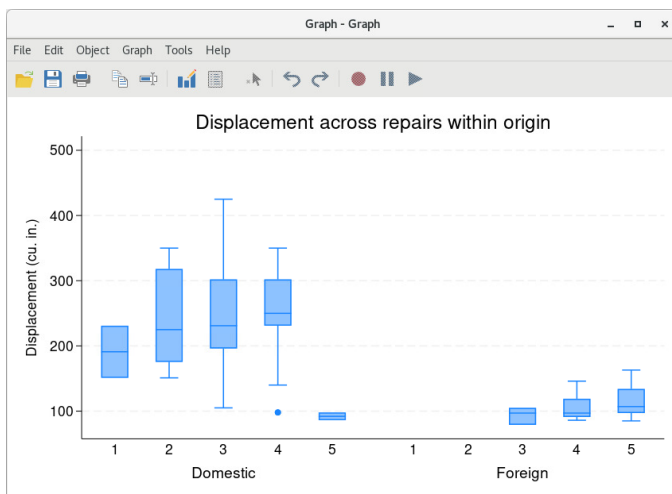
Stata has a rich system for graphical representation of data. The main command for creating graphs is unsurprisingly named `graph`. Behind this plain name is a wealth of tools. In this chapter, we will make one simple graph to point out the basics of the Graph window. See the [\[G\] Stata Graphics Reference Manual](#) for more information about all aspects of working with graphs.

A simple graph example

In the sample session of [\[GSU\] 1 Introducing Stata—sample session](#), we made a scatterplot, added a fitted regression line, and made a grid of scatterplots to allow comparisons across groups. Here, using the automobile dataset, we make a simple box plot that shows the displacements of the cars' engines and how they compare across repair records within the place of manufacture of the cars. Start by loading the dataset by typing `sysuse auto` in the Command window and pressing *Enter*.

We select **Graphics > Box plot**, choose or type displacement in the *Variables* field on the **Main** tab, click on the **Categories** tab, check the *Group 1* checkbox and enter `rep78` for the first grouping variable, and check the *Group 2* checkbox and enter `foreign` for the second grouping variable. Finally, we click on the **Submit** button so that we could easily make changes to the graph if need be. After we look at the graph, we realize that we forgot the title. We close the Graph window, click on the **Titles** tab of the *graph box* dialog, type the title *Displacement across repairs within origin*, and click on the **Submit** button again.

The Graph window comes up, showing us our nicely titled graph:



Graph window

When the Graph window comes up, it shows our graph in a window with a toolbar. The first four buttons are familiar to us from other Stata windows: **Open**, **Save**, **Print**, and **Copy**. The next two buttons are new:



Rename graph: This button allows the graph to be renamed. Why would you do this? If you would like to have multiple graphs open at once, the graphs need to be named. So you can click on the **Rename graph** button to give a graph a name. This graph will then remain open when you create your next graph.



Graph Editor: Stata has a Graph Editor that allows you to manipulate and edit your graph. This feature will be introduced in the next chapter.

The inactive buttons to the right of the **Graph Editor** button are used by the Graph Editor, so their meanings will become clear in the next chapter.

We decide that we like this graph and would like to save it. We can save it either by clicking on the **Save** button and choosing a name and a location or by right-clicking on the Graph window itself and selecting **Save as....**

Saving and printing graphs


You can save a graph once it is displayed by right-clicking on its window and selecting **Save as....** You can print a graph by right-clicking on its window and selecting **Print....** You can also use the **File** menu to save or print a graph. We recommend that you always right-click on a graph to save or print it to ensure that the correct graph is selected.

Right-clicking on the Graph window

Right-clicking on the Graph window displays a menu from which you can select the following:

- **Save as...** to save the graph to disk.
- **Copy** to copy the graph to the Clipboard.
- **Start Graph Editor** to start the Graph Editor.
- **Preferences...** to edit the preferences for graphs.
- **Print...** to print the graph.

The Graph button

The **Graph** button, , is located on the main window's toolbar. The button has two parts, an icon and an arrow. Clicking on the icon brings the topmost Graph window to the front of all other windows. Clicking on the arrow displays a menu of open graphs. Selecting a graph from the menu brings that graph to the front of all other windows. If you close the Graph window, you can reopen it only by reissuing a Stata command that draws a new graph.

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