Data Visualization With Stata (The Basics)

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Introduction

99% of data visualization work sometimes seems to consist of creating bar graphs (graph bar y, over(x)) and scatterplots (twoway scatter y x). (For the sake of completeness, I am also going to mention histograms (histogram x).) I am not a particular fan of Stata's default graph schemes, so I am going to make use of the graph scheme entitled s1color.

This is a quick guide to these ideas using the Palmer Penguins Data.



- . clear all
- $. \ use \ "https://github.com/agrogan1/newstuff/raw/master/data-visualization-with-Stata-the-basics/performance of the control of the contr$
- > nguins.dta", clear
- . set scheme s1color // use s1color scheme

Histogram: histogram

- . histogram body_mass_g, title("Body Mass of Penguins") (bin=18, start=2700, width=200)
- . graph export myhistogram.png, width(1000) replace (file myhistogram.png written in PNG format)

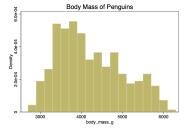


Figure 1: histogram

Bar Graph: graph bar

Counting Up Numbers In Each Group

- . graph bar, over(species) title("Penguin Species")
- . graph export mybar1.png, width(1000) replace
 (file mybar1.png written in PNG format)

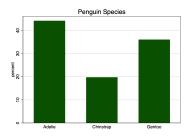


Figure 2: bar graph

Average Of A Continuous Variable Across Groups

- . graph bar body_mass_g, over(species) title("Body Mass of Penguin Species")
- . graph export mybar2.png, width(1000) replace
 (file mybar2.png written in PNG format)

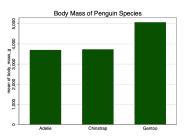


Figure 3: bar graph

Scatterplot: twoway scatter

- . twoway scatter culmen_length_mm body_mass_g, title("Penguin Culmen Length by Body Mass")
- . graph export myscatter.png, width(1000) replace
 (file myscatter.png written in PNG format)

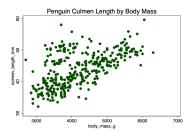


Figure 4: scatterplot