## A Very Short Introduction to Stata

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The basic philosophy of Stata—"Stata in one sentence"—is:

do something to variable(s), options

The general idea of most Stata commands is command variable(s), options. Often it is not necessary to use any options since the authors of Stata have done such a good job of thinking about the defaults. Commands that you actually type are represented in monospace font. x and y refer to variables in your data.

Task	Command
Open data	use mydata.dta
Descriptive statistics	summarize x y
Frequencies	tabulate x
Correlation	corr x y
Regression	regress y x z
Logistic Regression	logit y x z, or¹
Ordinal Logistic Regression	ologit y x z, or²
Multinomial Logistic Regression	mlogit y x z, rr³
Multilevel Model	mixed y x z    group: x
Structural Equation Modeling	sem (y <- x m z) (m <- x z)
Histogram	histogram x <sup>4</sup>
Bar Graph	graph bar, over(x)
Bar Graph (of means)	graph bar y, over(x)
Pie Chart	graph pie, over(x)
Scatterplot	twoway scatter y x

 $<sup>^1</sup>$ Here we need to use the , or option to ask for *odds ratios* instead of *logit coefficients*.

<sup>&</sup>lt;sup>2</sup>Here again we need to use the , or option to ask for *odds ratios* instead of *logit coefficients*.

<sup>&</sup>lt;sup>3</sup>Here we need to use the , rr option to ask for *risk ratios* instead of *logit coefficients*.

<sup>&</sup>lt;sup>4</sup>For graphing commands, you can often add options after a ,.e.g. title("title of the graph"), xtitle("title of the x axis"), ytitle("title of the y axis").