

Stata Data Management Workshop

Command	Description	Sample Code	Sample Description
<u>summarize</u>	Calculates and displays a variety of univariate summary statistics	sum gpa	Gives summary statistics on the gpa variable
mean	Produces estimates of means, along with standard errors	mean gpa	Gives summary statistics on the gpa variable, including standard error
<u>tabulate</u>	One-way table of frequency	tab gender	Creates a frequency table of the gender variables
	Two-way table of frequency	tab gender race	Creates a two-way frequency table of gender and race
fre	One-way table of frequency	fre gender gpa age	Creates a frequency table of the gender, gpa, and age variables
<u>histogram</u>	Histograms for continuous and categorical variables	hist gpa	Creates a histogram of the gpa variable
<u>scatter</u>	Two-way scatter plots	scatter gpa act	Creates a scatter plot of the gpa and act variables
ttest	One-sample t-test	ttest gpa == 3.5	In a one-sample t-test, tests to see if the mean gpa is statistically different than 3.5
	Two-sample t-test using groups	ttest gpa, by(athlete)	In a two sample t-test, tests to see if the gpa of athletes is statistically different than non-athletes
oneway	One-way analysis of variance	oneway medage region, b	With a Bonferroni post-hoc test, tests to see if medage is different across the regions.
pwcorr	Displays all the pairwise correlation coefficients between the selected variables.	pwcorr gpa act, sig	Shows the correlation and significance level between the gpa and act variables
<u>regress</u>	Performs ordinary least-squares linear regression	regress price mpg weight	Regresses mpg and weight onto price

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Tips and Tricks

- Stata files can also be opened by dragging them into Stata
- Stata is case sensitive
 - All commands are lowercase
 - Variable names must match exactly
- Use the keyboard shortcut (control d) to execute commands in the do-file
- It is generally unnecessary to save changes to your data set if you used a do-file
 - The do-file should be saved, and can be re-run to replicate what you already did
 - Any saves should be made with a new file name so as not to change your original file

run to replicate