

## Stata Data Management Workshop

Command	Description	Sample Code	Sample Description
<b><u>summarize</u></b>	Calculates and displays a variety of univariate summary statistics	sum gpa	Gives summary statistics on the gpa variable
<b>mean</b>	Produces estimates of means, along with standard errors	mean gpa	Gives summary statistics on the gpa variable, including standard error
<b><u>tabulate</u></b>	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
<b>fre</b>	One-way table of frequency	fre gender gpa age	Creates a frequency table of the gender, gpa, and age variables
<b><u>histogram</u></b>	Histograms for continuous and categorical variables	hist gpa	Creates a histogram of the gpa variable
<b><u>scatter</u></b>	Two-way scatter plots	scatter gpa act	Creates a scatter plot of the gpa and act variables
<b>ttest</b>	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
<b>oneway</b>	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.
<b>pwcorr</b>	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
<b><u>regress</u></b>	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