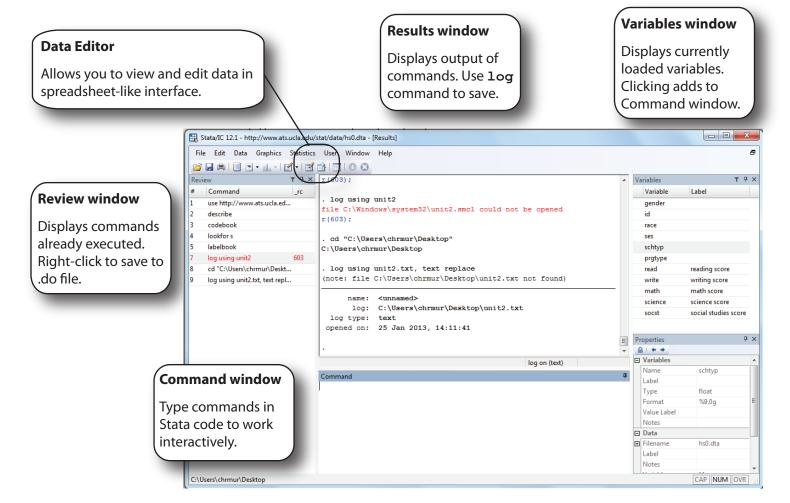
Stata Quick Guide

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Basics

Stata code is generally structured as command variables, options

bysort variable: command applies the command to subsets of the dataset according the variable's values

Underlined portions of commands can be used as abbreviations, as in su for <u>summarize</u>. Elements in bold vary according to your dataset.

 $\label{eq:command} \mbox{ help } \mbox{ \textbf{command} will access the documentation for } \\ \mbox{ that command}$

A .do file is a series of commands that can be run at once

Loading and Saving Files

use **filename**, clear open Stata .dta files. clear removes currently open data from memory.

insheet "filename.txt", clear
 load data in spreadsheet format

save **filename**, replace overwrite and save in .dta format

log using **filename**, replace saves output in Results window to file

manually sets the memory available to store dataset

Labeling

<u>lab</u>el **filename** "My data" a label for the entire dataset

<u>lab</u>el variable **var1 "My variable"** label variables

label define yesno 0 "no" 1 "yes" creates label that can be later applied to values of multiple variables

label values **var1 yesno**applies defined label to variable's values

Exploring Data

summarize

descriptive statistics for each variable

codebook

prints information on each variable

lookfor pov

searches large files for variable containing text, e.g. poverty

tabulate var1

one-way tabulation of frequencies

tabulate var1 var2

two-way cross-tabulations

bysort var2: ta var1

tabulates for each value of var2

histogram var1

creates histogram graphic

Logical Operators

== equals > greater than

!= not equal >= greater than or equal

& and < less than

or <= less than or equal to

~ not

Subsetting

use var1 var2 using filename,
clear

subset by loading only selected variables

drop var1 or keep var1

remove or retain selected variables

keep if var1 > 50

retain observations according to an expression

Manipulating Variables

recode **var1** -99=. 1/2=1 3/5=2 6=3, gen(newvar)

creates new variable from existing one, while reassigning values. "" indicates a missing value in Stata; and "/" indicates a range of values

generate newvar = $var1^2$

creates a new variable according to expression

replace oldvar = var1^2 if var1>10
 alters values in existing variable

tab var1, gen(dummy)

creates a dummy variable (0 or 1) for every value of variable

var*

selects all variables beginning with text, e.g. var1, var2, var3, etc.

Combining Datasets

sort var1

sort on values of variable

merge var1 using otherfile

adds new columns to currently open data from another file (called the "using data"); both files must be sorted on a variable they have in common

tab merge

check results of merge

append using otherfile

adds additional rows of data from another file; must have same variable names