Data Analysis with Stata 14.1 Cheat Sheet

For more info see Stata's reference manual (stata.com)

Summarize Data

summarize price mpg, **detail**
calculate a variety of univariate summary statistics

ci mean mpg price, **level**(99)
compute standard errors and confidence intervals

correlate mpg price
return correlation or covariance matrix

pwcorr price mpg weight, **star**(0.05)
return all pairwise correlation coefficients with sig. levels

mean price mpg
estimates of means, including standard errors

proportion rep78 foreign
estimates of proportions, including standard errors for categories identified in varlist

ratio
estimates of ratios, including standard errors

total price
estimates of totals, including standard errors

Declare Data

By declaring data type, you enable Stata to apply data munging and analysis functions specific to certain data types

Time Series

tsset time, **yearly**
declare sunspot data to be yearly time series

tsreport
report time series aspects of a dataset

generate lag_spot = L1.spot
create a new variable of annual lags of sun spots

tsline spot
plot time series of sunspots

arima spot, **ar**(1/2)
estimate an auto-regressive model with 2 lags

Time Series Operators

L.	lag(1)	D.	difference
L2.	lag(2)	LD.	lag(1) of difference
F.	lead(1)	F2.	lead(2)
S.	seasonal difference	S2.	lag(2) seasonal difference

Utilities, Add-ons

tsfill	expand time series into missing years and add all panel values
carryforward	carry non-missing values forward from one obs. to the next
tsspell	identify spells in time series

Survival Analysis

stset studytime, **failure**(died)
declare survey design for a dataset

stsum
summarize survival-time data

stcox drug age
estimate a cox proportional hazard model

Panels / Longitudinal

xtset id year
declare national longitudinal data to be a panel

xtdescribe
report panel aspects of a dataset

xtsum hours
summarize hours worked, decomposing standard deviation into between and within components

xtline ln_wage if id <= 22, **tlabel**(#3)
plot panel data as a line plot

xtreg ln_w c.age##c.age ttl_exp, **fe vce**(robust)
estimate a fixed-effects model with robust standard errors

Survey Data

svyset psuid [**pweight** = finalwgt], **strata**(stratid)
declare survey design for a dataset

svydescribe
report survey data details

svy: mean age, **over**(sex)
estimate a population mean for each subpopulation

svy, subpop(rural): mean age
estimate a population mean for rural areas

svy: tabulate sex heartatk
report two-way table with tests of independence

svy: reg zinc c.age##c.age female weight rural
estimate a regression using survey weights

Statistical Tests

tabulate foreign rep78, **chi2 exact expected**
tabulate foreign and repair record and return chi2 and Fisher's exact statistic alongside the expected values

ttest mpg, **by**(foreign)
estimate t test on equality of means for mpg by foreign

prtest foreign == 0.5
one-sample test of proportions

ksmirnov mpg, **by**(foreign) **exact**
Kolmogorov-Smirnov equality-of-distributions test

ranksum mpg, **by**(foreign) **exact**
equality tests on unmatched data (independent samples)

anova systolic drug
analysis of variance and covariance

pwmean mpg, **over**(rep78) **pveffects mcompare**(bonferroni)
estimate pairwise comparisons of means with equal variances include multiple-comparison adjustment

1 Estimate Models

store results at [0-<255]

regress price mpg weight, **robust**
estimate ordinary least squares (OLS) model on mpg, weight and foreign, apply robust standard errors

regress price mpg weight **if** foreign == 0, **cluster**(rep78)
regress price only on domestic cars, cluster standard errors

rreg price mpg weight, **genwt**(reg_wt)
estimate robust regression to eliminate outliers

probit foreign turn price, **vce**(robust)
estimate probit regression with robust standard errors

logit foreign headroom mpg, **or**
estimate logistic regression and report odds ratios

bootstrap, reps(100): **regress** mpg /*
*/ weight gear foreign
estimate regression with bootstrapping

jackknife r(mean), double: sum mpg
jackknife standard error of sample mean

Maximum Likelihood Models

2 Diagnostics

not appropriate after robust cluster()

estat hettest test for heteroskedasticity
ovtest test for omitted variable bias
vif report variance inflation factor

dfbeta(length)
calculate measure of influence

rvfplot, yline(0)
plot residuals against fitted values

avplots
plot all partial-regression leverage plots in one graph

3 Postestimation

commands that use a fitted model

regress price headroom length

display _b[length] **display** _se[length]
return coefficient estimate or standard error for mpg from most recent regression model

margins, dydx(length)
return the estimated marginal effect for mpg

margins, eyex(length)
return the estimated elasticity for price

predict yhat / **e**(sample)
create predictions for sample on which model was fit

predict double resid, **residuals**
calculate residuals based on last fit model

test mpg = 0
test linear hypothesis that mpg estimate equals zero

lincom headroom + length
test linear combination of estimates (headroom + lengths)

Estimation with Categorical & Factor Variables

more details at http://www.stata.com/bookstore/s2rc.pdf

Continuous Variables
(#) measure something

Categorical Variables
■ ● ▲ identify a group to which an observations belongs

Indicator (Binary) Variables
T F denote whether something is true or false

Operator	Description	Example	
i.	specify indicators	regress price i.rep78	specify rep78 variable to be an indicator variable
ib.	specify base indicators	regress price ib2.foreign	set the third category of rep78 to be the base category
fvset	command to change base	fvset base frequent rep78	set the base to most frequently occurring category for rep78
c.	treat variable as continuous	regress price c.mpg#c.foreign foreign	treat mpg as a continuous variable and specify an interaction between foreign and mpg
o.	omit a variable or indicator	regress price ibn.foreign	set no base to be an indicator, omit observations with rep78 == 3
#	specify interactions	regress price mpg c.mpg#c.mpg	create a squared mpg term to be used in regression
##	specify factor interactions	regress price c.mpg##i.rep78 mpg	create all possible interactions with mpg (mpg, and mpg^2

Tim Essam (timessam@gmail.com) • Laura Hughes (lhughes@ucsd.edu)
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Yijin Wang

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