

# Combined subject table of contents

This is the complete contents for all manuals. Every estimation command has a postestimation entry; however, not all postestimation entries are listed here.

---

## Getting started

### Data manipulation and management

- Basic data commands*
- Creating and dropping variables*
- Functions and expressions*
- Strings*
- Dates and times*
- Loading, saving, importing, and exporting data*
- Combining data*

- Reshaping datasets*
- Labeling, display formats, and notes*
- Changing and renaming variables*
- Examining data*
- File manipulation*
- Miscellaneous data commands*
- Multiple imputation*

### Utilities

- Basic utilities*
- Error messages*
- Stored results*

- Internet*
- Data types and memory*
- Advanced utilities*

### Graphics

- Common graphs*
- Distributional graphs*
- Item response theory graphs*
- Multivariate graphs*
- Quality control*
- Regression diagnostic plots*
- ROC analysis*
- Smoothing and densities*

- Survival-analysis graphs*
- Time-series graphs*
- More statistical graphs*
- Editing*
- Graph utilities*
- Graph schemes*
- Graph concepts*

### Statistics

- ANOVA and related*
- Basic statistics*
- Bayesian analysis*
- Binary outcomes*
- Categorical outcomes*
- Censored and truncated regression models*
- Cluster analysis*
- Correspondence analysis*
- Count outcomes*
- Discriminant analysis*
- Do-it-yourself generalized method of moments*
- Do-it-yourself maximum likelihood estimation*
- Endogenous covariates*
- Epidemiology and related*
- Estimation related*
- Exact statistics*
- Factor analysis and principal components*
- Fractional outcomes*
- Generalized linear models*
- Indicator and categorical variables*

- Multidimensional scaling and biplots*
- Multilevel mixed-effects models*
- Multiple imputation*
- Multivariate analysis of variance and related techniques*
- Nonlinear regression*
- Nonparametric statistics*
- Ordinal outcomes*
- Other statistics*
- Pharmacokinetic statistics*
- Power and sample size*
- Quality control*
- ROC analysis*
- Rotation*
- Sample selection models*
- Simulation/resampling*
- Standard postestimation tests, tables, and other analyses*
- Structural equation modeling*
- Survey data*

*Item response theory*  
*Linear regression and related*  
*Logistic and probit regression*  
*Longitudinal data/panel data*  
*Mixed models*

### Matrix commands

*Basics*  
*Programming*

### Programming

*Basics*  
*Program control*  
*Parsing and program arguments*  
*Console output*  
*Commonly used programming commands*  
*Debugging*

### Interface features

---

*Survival analysis*  
*Time series, multivariate*  
*Time series, univariate*  
*Transforms and normality tests*  
*Treatment effects*

*Other*  
*Mata*

*Projects*  
*Advanced programming commands*  
*Special-interest programming commands*  
*File formats*  
*Mata*

## Getting started

[GSM]	<i>Getting Started with Stata for Mac</i> .....	
[GSU]	<i>Getting Started with Stata for Unix</i> .....	
[GSW]	<i>Getting Started with Stata for Windows</i> .....	
[U]	Chapter 3 .....	Resources for learning and using Stata
[U]	Chapter 4 .....	Stata's help and search facilities
[R]	help .....	Display help in Stata
[R]	search .....	Search Stata documentation and other resources

## Data manipulation and management

### Basic data commands

[D]	codebook .....	Describe data contents
[D]	data management .....	Introduction to data management commands
[D]	data types .....	Quick reference for data types
[D]	datetime .....	Date and time values and variables
[D]	describe .....	Describe data in memory or in file
[D]	edit .....	Browse or edit data with Data Editor
[D]	format .....	Set variables' output format
[D]	insobs .....	Add or insert observations
[D]	inspect .....	Display simple summary of data's attributes
[D]	label .....	Manipulate labels
[D]	list .....	List values of variables
[D]	missing values .....	Quick reference for missing values
[D]	rename .....	Rename variable
[D]	save .....	Save Stata dataset
[D]	sort .....	Sort data
[D]	use .....	Load Stata dataset
[D]	varmanage .....	Manage variable labels, formats, and other properties

**Creating and dropping variables**

[FN]	Date and time functions	.....
[FN]	Mathematical functions	.....
[FN]	Matrix functions	.....
[FN]	Programming functions	.....
[FN]	Random-number functions	.....
[FN]	Selecting time-span functions	.....
[FN]	Statistical functions	.....
[FN]	String functions	.....
[FN]	Trigonometric functions	.....
[D]	clear	..... Clear memory
[D]	compress	..... Compress data in memory
[D]	drop	..... Drop variables or observations
[D]	egen	..... Extensions to generate
[D]	generate	..... Create or change contents of variable
[R]	orthog	..... Orthogonalize variables and compute orthogonal polynomials

**Functions and expressions**

[U]	Section 12.4.2.1	..... Unicode string functions
[U]	Chapter 13	..... Functions and expressions
[FN]	Date and time functions	.....
[FN]	Mathematical functions	.....
[FN]	Matrix functions	.....
[FN]	Programming functions	.....
[FN]	Random-number functions	.....
[FN]	Selecting time-span functions	.....
[FN]	Statistical functions	.....
[FN]	String functions	.....
[FN]	Trigonometric functions	.....
[D]	egen	..... Extensions to generate

**Strings**

[U]	Section 12.4	..... Strings
[U]	Section 12.4.2	..... Handling Unicode strings
[U]	Chapter 23	..... Working with strings
[FN]	String functions	.....
[D]	data types	..... Quick reference for data types
[D]	unicode	..... Unicode utilities

**Dates and times**

[U]	Section 12.5.3	..... Date and time formats
[U]	Chapter 24	..... Working with dates and times
[D]	bcal	..... Business calendar file manipulation
[D]	datetime	..... Date and time values and variables
[D]	datetime business calendars	..... Business calendars
[D]	datetime business calendars creation	..... Business calendars creation
[D]	datetime display formats	..... Display formats for dates and times
[D]	datetime translation	..... String to numeric date translation functions

**Loading, saving, importing, and exporting data**

[GS]	Chapter 6 (GSM, GSU, GSW)	Using the Data Editor
[U]	Chapter 21	Entering and importing data
[D]	edit	Browse or edit data with Data Editor
[D]	export	Overview of exporting data from Stata
[D]	import	Overview of importing data into Stata
[D]	import delimited	Import delimited text data
[D]	import excel	Import and export Excel files
[D]	import haver	Import data from Haver Analytics databases
[D]	import sasxport	Import and export datasets in SAS XPORT format
[D]	infile (fixed format)	Read text data in fixed format with a dictionary
[D]	infile (free format)	Read unformatted text data
[D]	infix (fixed format)	Read text data in fixed format
[D]	input	Enter data from keyboard
[D]	odbc	Load, write, or view data from ODBC sources
[D]	outfile	Export dataset in text format
[P]	putexcel	Export results to an Excel file
[P]	putexcel advanced	Export results to an Excel file using advanced syntax
[D]	save	Save Stata dataset
[D]	sysuse	Use shipped dataset
[D]	use	Load Stata dataset
[D]	webuse	Use dataset from Stata website
[D]	xmlsave	Export or import dataset in XML format

**Combining data**

[U]	Chapter 22	Combining datasets
[D]	append	Append datasets
[MI]	mi append	Append mi data
[D]	cross	Form every pairwise combination of two datasets
[D]	joinby	Form all pairwise combinations within groups
[D]	merge	Merge datasets
[MI]	mi merge	Merge mi data

**Reshaping datasets**

[D]	collapse	Make dataset of summary statistics
[D]	contract	Make dataset of frequencies and percentages
[D]	expand	Duplicate observations
[D]	expandcl	Duplicate clustered observations
[D]	fillin	Rectangularize dataset
[D]	obs	Increase the number of observations in a dataset
[D]	reshape	Convert data from wide to long form and vice versa
[MI]	mi reshape	Reshape mi data
[TS]	rolling	Rolling-window and recursive estimation
[D]	separate	Create separate variables
[SEM]	ssd	Making summary statistics data (sem only)
[D]	stack	Stack data
[D]	statsby	Collect statistics for a command across a by list
[D]	xpose	Interchange observations and variables

**Labeling, display formats, and notes**

[GS]	Chapter 7 (GSM, GSU, GSW)	Using the Variables Manager
[U]	Section 12.5	Formats: Controlling how data are displayed
[U]	Section 12.6	Dataset, variable, and value labels
[D]	format	Set variables' output format
[D]	label	Manipulate labels
[D]	label language	Labels for variables and values in multiple languages
[D]	labelbook	Label utilities
[D]	notes	Place notes in data
[D]	varmanage	Manage variable labels, formats, and other properties

**Changing and renaming variables**

[GS]	Chapter 7 (GSM, GSU, GSW)	Using the Variables Manager
[U]	Chapter 25	Working with categorical data and factor variables
[D]	clonevar	Clone existing variable
[D]	destring	Convert string variables to numeric variables and vice versa
[D]	encode	Encode string into numeric and vice versa
[D]	generate	Create or change contents of variable
[D]	mvencode	Change missing values to numeric values and vice versa
[D]	order	Reorder variables in dataset
[D]	recode	Recode categorical variables
[D]	rename	Rename variable
[D]	rename group	Rename groups of variables
[D]	split	Split string variables into parts
[D]	varmanage	Manage variable labels, formats, and other properties

**Examining data**

[GS]	Chapter 6 (GSM, GSU, GSW)	Using the Data Editor
[D]	cf	Compare two datasets
[D]	codebook	Describe data contents
[D]	compare	Compare two variables
[D]	count	Count observations satisfying specified conditions
[D]	describe	Describe data in memory or in file
[D]	ds	List variables matching name patterns or other characteristics
[D]	duplicates	Report, tag, or drop duplicate observations
[D]	edit	Browse or edit data with Data Editor
[D]	gsort	Ascending and descending sort
[D]	inspect	Display simple summary of data's attributes
[D]	isid	Check for unique identifiers
[D]	lookfor	Search for string in variable names and labels
[R]	lv	Letter-value displays
[R]	misstable	Tabulate missing values
[MI]	mi describe	Describe mi data
[MI]	mi misstable	Tabulate pattern of missing values
[D]	pctile	Create variable containing percentiles
[ST]	stdescribe	Describe survival-time data
[R]	summarize	Summary statistics
[SVY]	svy: tabulate oneway	One-way tables for survey data
[SVY]	svy: tabulate twoway	Two-way tables for survey data
[P]	tabdisp	Display tables
[R]	table	Flexible table of summary statistics

[R]	tabstat	Compact table of summary statistics
[R]	tabulate oneway	One-way table of frequencies
[R]	tabulate twoway	Two-way table of frequencies
[R]	tabulate, summarize()	One- and two-way tables of summary statistics
[XT]	xtdescribe	Describe pattern of xt data

### File manipulation

[D]	cd	Change directory
[D]	cf	Compare two datasets
[D]	changeool	Convert end-of-line characters of text file
[D]	checksum	Calculate checksum of file
[D]	copy	Copy file from disk or URL
[D]	dir	Display filenames
[D]	erase	Erase a disk file
[D]	filefilter	Convert ASCII or binary patterns in a file
[D]	mkdir	Create directory
[D]	rmdir	Remove directory
[D]	type	Display contents of a file
[D]	unicode convertfile	Low-level file conversion between encodings
[D]	unicode translate	Translate files to Unicode
[D]	zipfile	Compress and uncompress files and directories in zip archive format

### Miscellaneous data commands

[D]	corr2data	Create dataset with specified correlation structure
[D]	drawnorm	Draw sample from multivariate normal distribution
[R]	dydx	Calculate numeric derivatives and integrals
[D]	icd	Introduction to ICD commands
[D]	icd10	ICD-10 diagnosis codes
[D]	icd9	ICD-9-CM diagnosis and procedure codes
[D]	ipolate	Linearly interpolate (extrapolate) values
[D]	range	Generate numerical range
[D]	sample	Draw random sample

### Multiple imputation

[MI]	mi add	Add imputations from another mi dataset
[MI]	mi append	Append mi data
[MI]	mi convert	Change style of mi data
[MI]	mi copy	Copy mi flongsep data
[MI]	mi describe	Describe mi data
[MI]	mi erase	Erase mi datasets
[MI]	mi expand	Expand mi data
[MI]	mi export	Export mi data
[MI]	mi export ice	Export mi data to ice format
[MI]	mi export nhanes1	Export mi data to NHANES format
[MI]	mi extract	Extract original or imputed data from mi data
[MI]	mi import	Import data into mi
[MI]	mi import flong	Import flong-like data into mi
[MI]	mi import flongsep	Import flongsep-like data into mi
[MI]	mi import ice	Import ice-format data into mi
[MI]	mi import nhanes1	Import NHANES-format data into mi
[MI]	mi import wide	Import wide-like data into mi

[MI]	<a href="#">mi merge</a>	Merge mi data
[MI]	<a href="#">mi misstable</a>	Tabulate pattern of missing values
[MI]	<a href="#">mi passive</a>	Generate/replace and register passive variables
[MI]	<a href="#">mi ptrace</a>	Load parameter-trace file into Stata
[MI]	<a href="#">mi rename</a>	Rename variable
[MI]	<a href="#">mi replace0</a>	Replace original data
[MI]	<a href="#">mi reset</a>	Reset imputed or passive variables
[MI]	<a href="#">mi reshape</a>	Reshape mi data
[MI]	<a href="#">mi set</a>	Declare multiple-imputation data
[MI]	<a href="#">mi stsplit</a>	Stsplit and stjoin mi data
[MI]	<a href="#">mi update</a>	Ensure that mi data are consistent
[MI]	<a href="#">mi varying</a>	Identify variables that vary across imputations
[MI]	<a href="#">mi xeq</a>	Execute command(s) on individual imputations
[MI]	<a href="#">mi XXXset</a>	Declare mi data to be svy, st, ts, xt, etc.
[MI]	<a href="#">noupdate option</a>	The noupdate option
[MI]	<a href="#">styles</a>	Dataset styles
[MI]	<a href="#">workflow</a>	Suggested workflow

## Utilities

### Basic utilities

[GS]	<a href="#">Chapter 13 (GSM, GSU, GSW)</a>	Using the Do-file Editor—automating Stata
[U]	<a href="#">Chapter 4</a>	Stata's help and search facilities
[U]	<a href="#">Chapter 15</a>	Saving and printing output—log files
[U]	<a href="#">Chapter 16</a>	Do-files
[R]	<a href="#">about</a>	Display information about your Stata
[D]	<a href="#">by</a>	Repeat Stata command on subsets of the data
[R]	<a href="#">cls</a>	Clear Results window
[R]	<a href="#">copyright</a>	Display copyright information
[R]	<a href="#">do</a>	Execute commands from a file
[R]	<a href="#">doedit</a>	Edit do-files and other text files
[R]	<a href="#">exit</a>	Exit Stata
[R]	<a href="#">help</a>	Display help in Stata
[R]	<a href="#">level</a>	Set default confidence level
[R]	<a href="#">log</a>	Echo copy of session to file
[D]	<a href="#">obs</a>	Increase the number of observations in a dataset
[R]	<a href="#">postest</a>	Postestimation Selector
[R]	<a href="#">#review</a>	Review previous commands
[R]	<a href="#">search</a>	Search Stata documentation and other resources
[BAYES]	<a href="#">set clevel</a>	Set default credible level
[R]	<a href="#">translate</a>	Print and translate logs
[D]	<a href="#">unicode translate</a>	Translate files to Unicode
[R]	<a href="#">view</a>	View files and logs
[D]	<a href="#">zipfile</a>	Compress and uncompress files and directories in zip archive format

### Error messages

[U]	<a href="#">Chapter 8</a>	Error messages and return codes
[P]	<a href="#">error</a>	Display generic error message and exit
[R]	<a href="#">error messages</a>	Error messages and return codes
[P]	<a href="#">rmsg</a>	Return messages

**Stored results**

[U]	Section 13.5	Accessing coefficients and standard errors
[U]	Section 18.8	Accessing results calculated by other programs
[U]	Section 18.9	Accessing results calculated by estimation commands
[U]	Section 18.10	Storing results
[P]	<code>creturn</code>	Return c-class values
[P]	<code>ereturn</code>	Post the estimation results
[R]	<code>estimates</code>	Save and manipulate estimation results
[R]	<code>estimates describe</code>	Describe estimation results
[R]	<code>estimates for</code>	Repeat postestimation command across models
[R]	<code>estimates notes</code>	Add notes to estimation results
[R]	<code>estimates replay</code>	Redisplay estimation results
[R]	<code>estimates save</code>	Save and use estimation results
[R]	<code>estimates stats</code>	Model-selection statistics
[R]	<code>estimates store</code>	Store and restore estimation results
[R]	<code>estimates table</code>	Compare estimation results
[R]	<code>estimates title</code>	Set title for estimation results
[P]	<code>_return</code>	Preserve stored results
[P]	<code>return</code>	Return stored results
[R]	<code>stored results</code>	Stored results

**Internet**

[U]	Chapter 28	Using the Internet to keep up to date
[R]	<code>adupdate</code>	Update user-written ado-files
[D]	<code>checksum</code>	Calculate checksum of file
[D]	<code>copy</code>	Copy file from disk or URL
[R]	<code>net</code>	Install and manage user-written additions from the Internet
[R]	<code>net search</code>	Search the Internet for installable packages
[R]	<code>netio</code>	Control Internet connections
[R]	<code>news</code>	Report Stata news
[R]	<code>sj</code>	Stata Journal and STB installation instructions
[R]	<code>ssc</code>	Install and uninstall packages from SSC
[R]	<code>update</code>	Check for official updates
[D]	<code>use</code>	Load Stata dataset

**Data types and memory**

[U]	Chapter 6	Managing memory
[U]	Section 12.2.2	Numeric storage types
[U]	Section 12.4	Strings
[U]	Section 12.4.2	Handling Unicode strings
[U]	Section 13.12	Precision and problems therein
[U]	Chapter 23	Working with strings
[D]	<code>compress</code>	Compress data in memory
[D]	<code>data types</code>	Quick reference for data types
[R]	<code>matsize</code>	Set the maximum number of variables in a model
[D]	<code>memory</code>	Memory management
[D]	<code>missing values</code>	Quick reference for missing values
[D]	<code>recast</code>	Change storage type of variable



**Advanced utilities**

[D]	<a href="#">assert</a>	Verify truth of claim
[D]	<a href="#">cd</a>	Change directory
[D]	<a href="#">changeool</a>	Convert end-of-line characters of text file
[D]	<a href="#">checksum</a>	Calculate checksum of file
[D]	<a href="#">copy</a>	Copy file from disk or URL
[P]	<a href="#">_datasignature</a>	Determine whether data have changed
[D]	<a href="#">datasignature</a>	Determine whether data have changed
[R]	<a href="#">db</a>	Launch dialog
[P]	<a href="#">dialog programming</a>	Dialog programming
[D]	<a href="#">dir</a>	Display filenames
[P]	<a href="#">discard</a>	Drop automatically loaded programs
[D]	<a href="#">erase</a>	Erase a disk file
[P]	<a href="#">file</a>	Read and write text and binary files
[D]	<a href="#">filefilter</a>	Convert ASCII or binary patterns in a file
[D]	<a href="#">hexdump</a>	Display hexadecimal report on file
[D]	<a href="#">mkdir</a>	Create directory
[R]	<a href="#">more</a>	The —more— message
[R]	<a href="#">query</a>	Display system parameters
[P]	<a href="#">quietly</a>	Quietly and noisily perform Stata command
[D]	<a href="#">rmdir</a>	Remove directory
[R]	<a href="#">set</a>	Overview of system parameters
[R]	<a href="#">set cformat</a>	Format settings for coefficient tables
[R]	<a href="#">set_defaults</a>	Reset system parameters to original Stata defaults
[R]	<a href="#">set emptycells</a>	Set what to do with empty cells in interactions
[P]	<a href="#">set locale_functions</a>	Specify default locale for functions
[P]	<a href="#">set locale_ui</a>	Specify a localization package for the user interface
[R]	<a href="#">set rng</a>	Set which random-number generator (RNG) to use
[R]	<a href="#">set seed</a>	Specify random-number seed and state
[R]	<a href="#">set showbaselevels</a>	Display settings for coefficient tables
[D]	<a href="#">shell</a>	Temporarily invoke operating system
[P]	<a href="#">signestimationsample</a>	Determine whether the estimation sample has changed
[P]	<a href="#">smcl</a>	Stata Markup and Control Language
[P]	<a href="#">sysdir</a>	Query and set system directories
[D]	<a href="#">type</a>	Display contents of a file
[D]	<a href="#">unicode collator</a>	Language-specific Unicode collators
[D]	<a href="#">unicode convertfile</a>	Low-level file conversion between encodings
[D]	<a href="#">unicode encoding</a>	Unicode encoding utilities
[D]	<a href="#">unicode locale</a>	Unicode locale utilities
[R]	<a href="#">which</a>	Display location and version for an ado-file

**Graphics****Common graphs**

[G-1]	<a href="#">graph intro</a>	Introduction to graphics
[G-2]	<a href="#">graph</a>	The graph command
[G-2]	<a href="#">graph bar</a>	Bar charts
[G-2]	<a href="#">graph box</a>	Box plots
[G-2]	<a href="#">graph close</a>	Close Graph windows
[G-2]	<a href="#">graph combine</a>	Combine multiple graphs

[G-2]	graph copy	Copy graph in memory
[G-2]	graph describe	Describe contents of graph in memory or on disk
[G-2]	graph dir	List names of graphs in memory and on disk
[G-2]	graph display	Display graph stored in memory
[G-2]	graph dot	Dot charts (summary statistics)
[G-2]	graph drop	Drop graphs from memory
[G-2]	graph export	Export current graph
[G-2]	graph manipulation	Graph manipulation commands
[G-2]	graph matrix	Matrix graphs
[G-2]	graph other	Other graphics commands
[G-2]	graph pie	Pie charts
[G-2]	graph play	Apply edits from a recording on current graph
[G-2]	graph print	Print a graph
[G-2]	graph query	List available schemes and styles
[G-2]	graph rename	Rename graph in memory
[G-2]	graph replay	Replay multiple graphs
[G-2]	graph save	Save graph to disk
[G-2]	graph set	Set graphics options
[G-2]	graph twoway	Twoway graphs
[G-2]	graph twoway area	Twoway line plot with area shading
[G-2]	graph twoway bar	Twoway bar plots
[G-2]	graph twoway connected	Twoway connected plots
[G-2]	graph twoway contour	Twoway contour plot with area shading
[G-2]	graph twoway contourline	Twoway contour-line plot
[G-2]	graph twoway dot	Twoway dot plots
[G-2]	graph twoway dropline	Twoway dropped-line plots
[G-2]	graph twoway ffit	Twoway fractional-polynomial prediction plots
[G-2]	graph twoway fffitci	Twoway fractional-polynomial prediction plots with CIs
[G-2]	graph twoway function	Twoway line plot of function
[G-2]	graph twoway histogram	Histogram plots
[G-2]	graph twoway kdensity	Kernel density plots
[G-2]	graph twoway lfit	Twoway linear prediction plots
[G-2]	graph twoway lfitci	Twoway linear prediction plots with CIs
[G-2]	graph twoway line	Twoway line plots
[G-2]	graph twoway lowess	Local linear smooth plots
[G-2]	graph twoway lpoly	Local polynomial smooth plots
[G-2]	graph twoway lpolyci	Local polynomial smooth plots with CIs
[G-2]	graph twoway mband	Twoway median-band plots
[G-2]	graph twoway mspline	Twoway median-spline plots
[G-2]	graph twoway parrow	Paired-coordinate plot with arrows
[G-2]	graph twoway parrowi	Twoway parrow with immediate arguments
[G-2]	graph twoway pccapsym	Paired-coordinate plot with spikes and marker symbols
[G-2]	graph twoway pci	Twoway paired-coordinate plot with immediate arguments
[G-2]	graph twoway pcscatter	Paired-coordinate plot with markers
[G-2]	graph twoway pcspike	Paired-coordinate plot with spikes
[G-2]	graph twoway qfit	Twoway quadratic prediction plots
[G-2]	graph twoway qfitci	Twoway quadratic prediction plots with CIs
[G-2]	graph twoway rarea	Range plot with area shading
[G-2]	graph twoway rbar	Range plot with bars
[G-2]	graph twoway reap	Range plot with capped spikes
[G-2]	graph twoway rcapsym	Range plot with spikes capped with marker symbols

[G-2]	graph twoway rconnected	Range plot with connected lines
[G-2]	graph twoway rline	Range plot with lines
[G-2]	graph twoway rscatter	Range plot with markers
[G-2]	graph twoway rspike	Range plot with spikes
[G-2]	graph twoway scatter	Two-way scatterplots
[G-2]	graph twoway scatteri	Scatter with immediate arguments
[G-2]	graph twoway spike	Two-way spike plots
[G-2]	graph twoway tline	Two-way line plots
[G-2]	graph use	Display graph stored on disk
[R]	histogram	Histograms for continuous and categorical variables
[R]	marginsplot	Graph results from margins (profile plots, etc.)
[G-2]	palette	Display palettes of available selections

### Distributional graphs

[R]	cumul	Cumulative distribution
[R]	diagnostic plots	Distributional diagnostic plots
[R]	dotplot	Comparative scatterplots
[R]	histogram	Histograms for continuous and categorical variables
[R]	ladder	Ladder of powers
[R]	spikeplot	Spike plots and rootograms
[R]	sunflower	Density-distribution sunflower plots

### Item response theory graphs

[MV]	biplot	Biplots
[IRT]	irtgraph icc	Item characteristic curve plot
[IRT]	irtgraph iif	Item information function plot
[IRT]	irtgraph tcc	Test characteristic curve plot
[IRT]	irtgraph tif	Test information function plot

### Multivariate graphs

[MV]	biplot	Biplots
[MV]	ca postestimation	Postestimation tools for ca and camat
[MV]	ca postestimation plots	Postestimation plots for ca and camat
[MV]	cluster dendrogram	Dendrograms for hierarchical cluster analysis
[MV]	mca postestimation	Postestimation tools for mca
[MV]	mca postestimation plots	Postestimation plots for mca
[MV]	mds postestimation	Postestimation tools for mds, mdsmat, and mdslong
[MV]	mds postestimation plots	Postestimation plots for mds, mdsmat, and mdslong
[MV]	procrustes postestimation	Postestimation tools for procrustes
[MV]	scoreplot	Score and loading plots
[MV]	screepplot	Scree plot

### Quality control

[R]	cusum	Cusum plots and tests for binary variables
[R]	qc	Quality control charts
[R]	serrbar	Graph standard error bar chart

### Regression diagnostic plots

[R]	regress postestimation diagnostic plots	Postestimation plots for regress
-----	---	----------------------------------

**ROC analysis**

[R]	<a href="#">estat classification</a>	Classification statistics and table
[R]	<a href="#">estat gof</a>	Pearson or Hosmer–Lemeshow goodness-of-fit test
[R]	<a href="#">logistic postestimation</a>	Postestimation tools for logistic
[R]	<a href="#">lroc</a>	Compute area under ROC curve and graph the curve
[R]	<a href="#">lsens</a>	Graph sensitivity and specificity versus probability cutoff
[R]	<a href="#">roccomp</a>	Tests of equality of ROC areas
[R]	<a href="#">rocfit postestimation</a>	Postestimation tools for rocfit
[R]	<a href="#">rocregplot</a>	Plot marginal and covariate-specific ROC curves after rocreg
[R]	<a href="#">roctab</a>	Nonparametric ROC analysis

**Smoothing and densities**

[R]	<a href="#">kdensity</a>	Univariate kernel density estimation
[R]	<a href="#">lowess</a>	Lowess smoothing
[R]	<a href="#">lpoly</a>	Kernel-weighted local polynomial smoothing

**Survival-analysis graphs**

[ST]	<a href="#">ltable</a>	Life tables for survival data
[ST]	<a href="#">stci</a>	Confidence intervals for means and percentiles of survival time
[ST]	<a href="#">stcox PH-assumption tests</a>	Tests of proportional-hazards assumption
[ST]	<a href="#">stcurve</a>	Plot survivor, hazard, cumulative hazard, or cumulative incidence function
[ST]	<a href="#">strate</a>	Tabulate failure rates and rate ratios
[ST]	<a href="#">sts graph</a>	Graph the survivor, hazard, or cumulative hazard function

**Time-series graphs**

[TS]	<a href="#">corrgram</a>	Tabulate and graph autocorrelations
[TS]	<a href="#">cumsp</a>	Cumulative spectral distribution
[TS]	<a href="#">estat acplot</a>	Plot parametric autocorrelation and autocovariance functions
[TS]	<a href="#">estat aroots</a>	Check the stability condition of ARIMA estimates
[TS]	<a href="#">fcast graph</a>	Graph forecasts after fcast compute
[TS]	<a href="#">irf cgraph</a>	Combined graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	<a href="#">irf graph</a>	Graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	<a href="#">irf ograph</a>	Overlaid graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	<a href="#">pergram</a>	Periodogram
[TS]	<a href="#">tsline</a>	Plot time-series data
[TS]	<a href="#">varstable</a>	Check the stability condition of VAR or SVAR estimates
[TS]	<a href="#">vecstable</a>	Check the stability condition of VECM estimates
[TS]	<a href="#">wntestb</a>	Bartlett's periodogram-based test for white noise
[TS]	<a href="#">xcorr</a>	Cross-correlogram for bivariate time series

**More statistical graphs**

[BAYES]	<a href="#">bayesgraph</a>	Graphical summaries and convergence diagnostics
[R]	<a href="#">epitab</a>	Tables for epidemiologists
[R]	<a href="#">fp postestimation</a>	Postestimation tools for fp
[R]	<a href="#">grmeanby</a>	Graph means and medians by categorical variables
[R]	<a href="#">pkexamine</a>	Calculate pharmacokinetic measures
[R]	<a href="#">pksumm</a>	Summarize pharmacokinetic data
[PSS]	<a href="#">power, graph</a>	Graph results from the power command

[R]	<a href="#">stem</a>	Stem-and-leaf displays
[TE]	<a href="#">teffects overlap</a>	Overlap plots
[XT]	<a href="#">xtline</a>	Panel-data line plots

## Editing

[G-1]	<a href="#">graph editor</a>	Graph Editor
-------	------------------------------	--------------

## Graph utilities

[G-2]	<a href="#">set graphics</a>	Set whether graphs are displayed
[G-2]	<a href="#">set printcolor</a>	Set how colors are treated when graphs are printed
[G-2]	<a href="#">set scheme</a>	Set default scheme

## Graph schemes

[G-4]	<a href="#">schemes intro</a>	Introduction to schemes
[G-4]	<a href="#">scheme economist</a>	Scheme description: economist
[G-4]	<a href="#">scheme s1</a>	Scheme description: s1 family
[G-4]	<a href="#">scheme s2</a>	Scheme description: s2 family
[G-4]	<a href="#">scheme sj</a>	Scheme description: sj

## Graph concepts

[G-4]	<a href="#">concept: gph files</a>	Using gph files
[G-4]	<a href="#">concept: lines</a>	Using lines
[G-4]	<a href="#">concept: repeated options</a>	Interpretation of repeated options
[G-4]	<a href="#">text</a>	Text in graphs

# Statistics

## ANOVA and related

[U]	<a href="#">Chapter 26</a>	Overview of Stata estimation commands
[R]	<a href="#">anova</a>	Analysis of variance and covariance
[R]	<a href="#">contrast</a>	Contrasts and linear hypothesis tests after estimation
[R]	<a href="#">icc</a>	Intraclass correlation coefficients
[R]	<a href="#">loneway</a>	Large one-way ANOVA, random effects, and reliability
[MV]	<a href="#">manova</a>	Multivariate analysis of variance and covariance
[ME]	<a href="#">meglm</a>	Multilevel mixed-effects generalized linear model
[ME]	<a href="#">mixed</a>	Multilevel mixed-effects linear regression
[R]	<a href="#">oneway</a>	One-way analysis of variance
[R]	<a href="#">pkcross</a>	Analyze crossover experiments
[R]	<a href="#">pkshape</a>	Reshape (pharmacokinetic) Latin-square data
[R]	<a href="#">pwcompare</a>	Pairwise comparisons
[R]	<a href="#">regress</a>	Linear regression
[XT]	<a href="#">xtreg</a>	Fixed-, between-, and random-effects and population-averaged linear models

## Basic statistics

[R]	<a href="#">anova</a>	Analysis of variance and covariance
[R]	<a href="#">bitest</a>	Binomial probability test
[R]	<a href="#">ci</a>	Confidence intervals for means, proportions, and variances
[R]	<a href="#">correlate</a>	Correlations (covariances) of variables or coefficients
[D]	<a href="#">egen</a>	Extensions to generate

[R]	<code>esize</code>	Effect size based on mean comparison
[R]	<code>icc</code>	Intraclass correlation coefficients
[R]	<code>mean</code>	Estimate means
[R]	<code>misstable</code>	Tabulate missing values
[MV]	<code>mvtest</code>	Multivariate tests
[R]	<code>oneway</code>	One-way analysis of variance
[R]	<code>proportion</code>	Estimate proportions
[R]	<code>prtest</code>	Tests of proportions
[R]	<code>pwmean</code>	Pairwise comparisons of means
[R]	<code>ranksum</code>	Equality tests on unmatched data
[R]	<code>ratio</code>	Estimate ratios
[R]	<code>regress</code>	Linear regression
[R]	<code>sdtest</code>	Variance-comparison tests
[R]	<code>signrank</code>	Equality tests on matched data
[D]	<code>statsby</code>	Collect statistics for a command across a by list
[R]	<code>summarize</code>	Summary statistics
[R]	<code>table</code>	Flexible table of summary statistics
[R]	<code>tabstat</code>	Compact table of summary statistics
[R]	<code>tabulate oneway</code>	One-way table of frequencies
[R]	<code>tabulate twoway</code>	Two-way table of frequencies
[R]	<code>tabulate, summarize()</code>	One- and two-way tables of summary statistics
[R]	<code>total</code>	Estimate totals
[R]	<code>ttest</code>	$t$ tests (mean-comparison tests)
[R]	<code>ztest</code>	$z$ tests (mean-comparison tests, known variance)

### Bayesian analysis

[BAYES]	<code>bayes</code>	Introduction to commands for Bayesian analysis
[BAYES]	<code>bayesgraph</code>	Graphical summaries and convergence diagnostics
[BAYES]	<code>bayesmh</code>	Bayesian regression using Metropolis–Hastings algorithm
[BAYES]	<code>bayesmh evaluators</code>	User-defined evaluators with <code>bayesmh</code>
[BAYES]	<code>bayesmh postestimation</code>	Postestimation tools for <code>bayesmh</code>
[BAYES]	<code>bayesstats</code>	Bayesian statistics after <code>bayesmh</code>
[BAYES]	<code>bayesstats ess</code>	Effective sample sizes and related statistics
[BAYES]	<code>bayesstats ic</code>	Bayesian information criteria and Bayes factors
[BAYES]	<code>bayesstats summary</code>	Bayesian summary statistics
[BAYES]	<code>bayestest</code>	Bayesian hypothesis testing
[BAYES]	<code>bayestest interval</code>	Interval hypothesis testing
[BAYES]	<code>bayestest model</code>	Hypothesis testing using model posterior probabilities

### Binary outcomes

[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.7	Binary-outcome qualitative dependent-variable models
[R]	<code>binreg</code>	Generalized linear models: Extensions to the binomial family
[R]	<code>biprobit</code>	Bivariate probit regression
[R]	<code>cloglog</code>	Complementary log-log regression
[TE]	<code>eteffects</code>	Endogenous treatment-effects estimation
[R]	<code>exlogistic</code>	Exact logistic regression
[R]	<code>glm</code>	Generalized linear models
[R]	<code>heckprobit</code>	Probit model with sample selection
[R]	<code>hetprobit</code>	Heteroskedastic probit model
[IRT]	<code>irt 1pl</code>	One-parameter logistic model

[IRT]	irt 2pl	Two-parameter logistic model
[IRT]	irt 3pl	Three-parameter logistic model
[IRT]	irt hybrid	Hybrid IRT models
[R]	ivprobit	Probit model with continuous endogenous covariates
[R]	logistic	Logistic regression, reporting odds ratios
[R]	logit	Logistic regression, reporting coefficients
[ME]	mecloglog	Multilevel mixed-effects complementary log-log regression
[ME]	melogit	Multilevel mixed-effects logistic regression
[ME]	meprobit	Multilevel mixed-effects probit regression
[ME]	meqlogit	Multilevel mixed-effects logistic regression (QR decomposition)
[R]	probit	Probit regression
[R]	rocfit	Parametric ROC models
[R]	rocreg	Receiver operating characteristic (ROC) regression
[R]	scobit	Skewed logistic regression
[TE]	teffects aipw	Augmented inverse-probability weighting
[TE]	teffects ipw	Inverse-probability weighting
[TE]	teffects ipwra	Inverse-probability-weighted regression adjustment
[TE]	teffects nnmatch	Nearest-neighbor matching
[TE]	teffects psmatch	Propensity-score matching
[TE]	teffects ra	Regression adjustment
[XT]	xtcloglog	Random-effects and population-averaged cloglog models
[XT]	xtlogit	Fixed-effects, random-effects, and population-averaged logit models
[XT]	xtprobit	Random-effects and population-averaged probit models

### Categorical outcomes

[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.11	Multiple-outcome qualitative dependent-variable models
[R]	asclogit	Alternative-specific conditional logit (McFadden's choice) model
[R]	asmprobit	Alternative-specific multinomial probit regression
[R]	clogit	Conditional (fixed-effects) logistic regression
[IRT]	irt nrm	Nominal response model
[R]	mlogit	Multinomial (polytomous) logistic regression
[R]	mprobit	Multinomial probit regression
[R]	nlogit	Nested logit regression
[R]	slogit	Stereotype logistic regression

### Censored and truncated regression models

[R]	churdle	Cragg hurdle regression
[R]	cpoisson	Censored Poisson regression
[R]	heckman	Heckman selection model
[R]	heckprobit	Ordered probit model with sample selection
[R]	heckprobit	Probit model with sample selection
[R]	intreg	Interval regression
[ME]	mestreg	Multilevel mixed-effects parametric survival models
[ST]	streg	Parametric survival models
[TE]	stteffects	Treatment-effects estimation for observational survival-time data
[R]	tnbreg	Truncated negative binomial regression
[R]	tobit	Tobit regression
[R]	tpoisson	Truncated Poisson regression
[R]	truncreg	Truncated regression

[XT]	<code>xtintreg</code> .....	Random-effects interval-data regression models
[XT]	<code>xtstreg</code> .....	Random-effects parametric survival models
[XT]	<code>xttobit</code> .....	Random-effects tobit models

## Cluster analysis

[U]	Section 26.28 .....	Multivariate and cluster analysis
[MV]	<code>cluster</code> .....	Introduction to cluster-analysis commands
[MV]	<code>cluster dendrogram</code> .....	Dendrograms for hierarchical cluster analysis
[MV]	<code>cluster generate</code> ..	Generate summary or grouping variables from a cluster analysis
[MV]	<code>cluster kmeans</code> and <code>kmedians</code> .....	Kmeans and kmedians cluster analysis
[MV]	<code>cluster linkage</code> .....	Hierarchical cluster analysis
[MV]	<code>cluster notes</code> .....	Place notes in cluster analysis
[MV]	<code>cluster programming subroutines</code> .....	Add cluster-analysis routines
[MV]	<code>cluster programming utilities</code> .....	Cluster-analysis programming utilities
[MV]	<code>cluster stop</code> .....	Cluster-analysis stopping rules
[MV]	<code>cluster utility</code> .....	List, rename, use, and drop cluster analyses
[MV]	<code>clustermat</code> .....	Introduction to clustermat commands
[MV]	<code>matrix dissimilarity</code> .....	Compute similarity or dissimilarity measures
[MV]	<code>measure_option</code> .....	Option for similarity and dissimilarity measures
[MV]	<code>multivariate</code> .....	Introduction to multivariate commands

## Correspondence analysis

[MV]	<code>ca</code> .....	Simple correspondence analysis
[MV]	<code>mca</code> .....	Multiple and joint correspondence analysis

## Count outcomes

[U]	Chapter 20 .....	Estimation and postestimation commands
[U]	Section 26.13 .....	Count dependent-variable models
[U]	Section 26.20.5 .....	Count dependent-variable models with panel data
[R]	<code>cpoisson</code> .....	Censored Poisson regression
[TE]	<code>eteffects</code> .....	Endogenous treatment-effects estimation
[TE]	<code>etpoisson</code> .....	Poisson regression with endogenous treatment effects
[R]	<code>exppoisson</code> .....	Exact Poisson regression
[ME]	<code>menbreg</code> .....	Multilevel mixed-effects negative binomial regression
[ME]	<code>mepoisson</code> .....	Multilevel mixed-effects Poisson regression
[ME]	<code>meqrpoisson</code> ....	Multilevel mixed-effects Poisson regression (QR decomposition)
[R]	<code>nbreg</code> .....	Negative binomial regression
[R]	<code>poisson</code> .....	Poisson regression
[TE]	<code>teffects aipw</code> .....	Augmented inverse-probability weighting
[TE]	<code>teffects ipw</code> .....	Inverse-probability weighting
[TE]	<code>teffects ipwra</code> .....	Inverse-probability-weighted regression adjustment
[TE]	<code>teffects nnmatch</code> .....	Nearest-neighbor matching
[TE]	<code>teffects psmatch</code> .....	Propensity-score matching
[TE]	<code>teffects ra</code> .....	Regression adjustment
[R]	<code>tnbreg</code> .....	Truncated negative binomial regression
[R]	<code>tpoisson</code> .....	Truncated Poisson regression
[XT]	<code>xtnbreg</code> .....	Fixed-effects, random-effects, & population-averaged negative binomial models
[XT]	<code>xtpoisson</code> ..	Fixed-effects, random-effects, and population-averaged Poisson models
[R]	<code>zinb</code> .....	Zero-inflated negative binomial regression
[R]	<code>zip</code> .....	Zero-inflated Poisson regression



**Discriminant analysis**

[MV]	<code>candisc</code>	Canonical linear discriminant analysis
[MV]	<code>discrim</code>	Discriminant analysis
[MV]	<code>discrim estat</code>	Postestimation tools for <code>discrim</code>
[MV]	<code>discrim knn</code>	kth-nearest-neighbor discriminant analysis
[MV]	<code>discrim lda</code>	Linear discriminant analysis
[MV]	<code>discrim logistic</code>	Logistic discriminant analysis
[MV]	<code>discrim qda</code>	Quadratic discriminant analysis
[MV]	<code>scoreplot</code>	Score and loading plots
[MV]	<code>screepplot</code>	Scree plot

**Do-it-yourself generalized method of moments**

[U]	Section 26.24	Generalized method of moments (GMM)
[R]	<code>gmm</code>	Generalized method of moments estimation
[P]	<code>matrix</code>	Introduction to matrix commands

**Do-it-yourself maximum likelihood estimation**

[P]	<code>matrix</code>	Introduction to matrix commands
[R]	<code>ml</code>	Maximum likelihood estimation
[R]	<code>mlexp</code>	Maximum likelihood estimation of user-specified expressions

**Endogenous covariates**

[U]	Chapter 20	Estimation and postestimation commands
[U]	Chapter 26	Overview of Stata estimation commands
[TE]	<code>eteffects</code>	Endogenous treatment-effects estimation
[TE]	<code>etpoisson</code>	Poisson regression with endogenous treatment effects
[TE]	<code>etregress</code>	Linear regression with endogenous treatment effects
[TS]	<code>forecast</code>	Econometric model forecasting
[R]	<code>gmm</code>	Generalized method of moments estimation
[R]	<code>ivpoisson</code>	Poisson model with continuous endogenous covariates
[R]	<code>ivprobit</code>	Probit model with continuous endogenous covariates
[R]	<code>ivregress</code>	Single-equation instrumental-variables regression
[R]	<code>ivtobit</code>	Tobit model with continuous endogenous covariates
[R]	<code>reg3</code>	Three-stage estimation for systems of simultaneous equations
[XT]	<code>xtabond</code>	Arellano–Bond linear dynamic panel-data estimation
[XT]	<code>xtdpd</code>	Linear dynamic panel-data estimation
[XT]	<code>xtdpdsys</code>	Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation
[XT]	<code>xhtaylor</code>	Hausman–Taylor estimator for error-components models
[XT]	<code>xtivreg</code>	Instrumental variables and two-stage least squares for panel-data models

**Epidemiology and related**

[R]	<code>binreg</code>	Generalized linear models: Extensions to the binomial family
[R]	<code>brier</code>	Brier score decomposition
[R]	<code>clogit</code>	Conditional (fixed-effects) logistic regression
[R]	<code>dstdize</code>	Direct and indirect standardization
[R]	<code>epitab</code>	Tables for epidemiologists
[R]	<code>exlogistic</code>	Exact logistic regression
[D]	<code>icd</code>	Introduction to ICD commands
[D]	<code>icd10</code>	ICD-10 diagnosis codes
[D]	<code>icd9</code>	ICD-9-CM diagnosis and procedure codes

[R]	<a href="#">kappa</a>	Interrater agreement
[R]	<a href="#">logistic</a>	Logistic regression, reporting odds ratios
[R]	<a href="#">pk</a>	Pharmacokinetic (biopharmaceutical) data
[R]	<a href="#">pkcollapse</a>	Generate pharmacokinetic measurement dataset
[R]	<a href="#">pkcross</a>	Analyze crossover experiments
[R]	<a href="#">pkequiv</a>	Perform bioequivalence tests
[R]	<a href="#">pkexamine</a>	Calculate pharmacokinetic measures
[R]	<a href="#">pkshape</a>	Reshape (pharmacokinetic) Latin-square data
[R]	<a href="#">pksumm</a>	Summarize pharmacokinetic data
[R]	<a href="#">poisson</a>	Poisson regression
[R]	<a href="#">roc</a>	Receiver operating characteristic (ROC) analysis
[R]	<a href="#">roccomp</a>	Tests of equality of ROC areas
[R]	<a href="#">rocfit</a>	Parametric ROC models
[R]	<a href="#">rocreg</a>	Receiver operating characteristic (ROC) regression
[R]	<a href="#">roctab</a>	Nonparametric ROC analysis
[R]	<a href="#">symmetry</a>	Symmetry and marginal homogeneity tests
[R]	<a href="#">tabulate twoway</a>	Two-way table of frequencies

Also see [Treatment effects](#)

### Estimation related

[R]	<a href="#">BIC note</a>	Calculating and interpreting BIC
[R]	<a href="#">constraint</a>	Define and list constraints
[R]	<a href="#">eform_option</a>	Displaying exponentiated coefficients
[R]	<a href="#">estimation options</a>	Estimation options
[R]	<a href="#">fp</a>	Fractional polynomial regression
[R]	<a href="#">maximize</a>	Details of iterative maximization
[R]	<a href="#">mfp</a>	Multivariable fractional polynomial models
[R]	<a href="#">mkspline</a>	Linear and restricted cubic spline construction
[R]	<a href="#">stepwise</a>	Stepwise estimation
[R]	<a href="#">vce_option</a>	Variance estimators
[XT]	<a href="#">vce_options</a>	Variance estimators

### Exact statistics

[U]	<a href="#">Section 26.14</a>	Exact estimators
[R]	<a href="#">bitest</a>	Binomial probability test
[R]	<a href="#">centile</a>	Report centile and confidence interval
[R]	<a href="#">ci</a>	Confidence intervals for means, proportions, and variances
[R]	<a href="#">dstdize</a>	Direct and indirect standardization
[R]	<a href="#">epitab</a>	Tables for epidemiologists
[R]	<a href="#">exlogistic</a>	Exact logistic regression
[R]	<a href="#">expoisson</a>	Exact Poisson regression
[R]	<a href="#">ksmirnov</a>	Kolmogorov–Smirnov equality-of-distributions test
[R]	<a href="#">loneway</a>	Large one-way ANOVA, random effects, and reliability
[R]	<a href="#">ranksum</a>	Equality tests on unmatched data
[R]	<a href="#">roctab</a>	Nonparametric ROC analysis
[R]	<a href="#">symmetry</a>	Symmetry and marginal homogeneity tests
[R]	<a href="#">tabulate twoway</a>	Two-way table of frequencies
[R]	<a href="#">tetrachoric</a>	Tetrachoric correlations for binary variables

**Factor analysis and principal components**

[MV]	<a href="#">alpha</a>	.....	Compute interitem correlations (covariances) and Cronbach's alpha
[MV]	<a href="#">canon</a>	.....	Canonical correlations
[MV]	<a href="#">factor</a>	.....	Factor analysis
[MV]	<a href="#">pca</a>	.....	Principal component analysis
[MV]	<a href="#">rotate</a>	.....	Orthogonal and oblique rotations after factor and pca
[MV]	<a href="#">rotatemat</a>	.....	Orthogonal and oblique rotations of a Stata matrix
[MV]	<a href="#">scoreplot</a>	.....	Score and loading plots
[MV]	<a href="#">screeplot</a>	.....	Scree plot
[R]	<a href="#">tetrachoric</a>	.....	Tetrachoric correlations for binary variables

**Fractional outcomes**

[R]	<a href="#">betareg</a>	.....	Beta regression
[TE]	<a href="#">eteffects</a>	.....	Endogenous treatment-effects estimation
[R]	<a href="#">fracreg</a>	.....	Fractional response regression
[TE]	<a href="#">teffects ipw</a>	.....	Inverse-probability weighting
[TE]	<a href="#">teffects nnmatch</a>	.....	Nearest-neighbor matching
[TE]	<a href="#">teffects psmatch</a>	.....	Propensity-score matching

**Generalized linear models**

[U]	<a href="#">Chapter 20</a>	.....	Estimation and postestimation commands
[U]	<a href="#">Section 26.6</a>	.....	Generalized linear models
[R]	<a href="#">binreg</a>	.....	Generalized linear models: Extensions to the binomial family
[R]	<a href="#">fracreg</a>	.....	Fractional response regression
[R]	<a href="#">glm</a>	.....	Generalized linear models
[XT]	<a href="#">xtgee</a>	.....	Fit population-averaged panel-data models by using GEE

**Indicator and categorical variables**

[U]	<a href="#">Section 11.4.3</a>	.....	Factor variables
[U]	<a href="#">Chapter 25</a>	.....	Working with categorical data and factor variables
[R]	<a href="#">fvset</a>	.....	Declare factor-variable settings

**Item response theory**

[U]	<a href="#">Section 26.12</a>	.....	Item response theory
[IRT]	<a href="#">Control Panel</a>	.....	IRT Control Panel
[IRT]	<a href="#">dif</a>	.....	Introduction to differential item functioning
[IRT]	<a href="#">diflogistic</a>	.....	Logistic regression DIF
[IRT]	<a href="#">difmh</a>	.....	Mantel-Haenszel DIF
[IRT]	<a href="#">estat report</a>	.....	Report estimated IRT parameters
[IRT]	<a href="#">irt 1pl</a>	.....	One-parameter logistic model
[IRT]	<a href="#">irt 2pl</a>	.....	Two-parameter logistic model
[IRT]	<a href="#">irt 3pl</a>	.....	Three-parameter logistic model
[IRT]	<a href="#">irt grm</a>	.....	Graded response model
[IRT]	<a href="#">irt hybrid</a>	.....	Hybrid IRT models
[IRT]	<a href="#">irt nrm</a>	.....	Nominal response model
[IRT]	<a href="#">irt pcm</a>	.....	Partial credit model
[IRT]	<a href="#">irt rsm</a>	.....	Rating scale model
[IRT]	<a href="#">irtgraph icc</a>	.....	Item characteristic curve plot
[IRT]	<a href="#">irtgraph iif</a>	.....	Item information function plot
[IRT]	<a href="#">irtgraph tcc</a>	.....	Test characteristic curve plot
[IRT]	<a href="#">irtgraph tif</a>	.....	Test information function plot

**Linear regression and related**

[U]	Chapter 20	Estimation and postestimation commands
[U]	Chapter 26	Overview of Stata estimation commands
[R]	areg	Linear regression with a large dummy-variable set
[R]	cnsreg	Constrained linear regression
[R]	constraint	Define and list constraints
[R]	eivreg	Errors-in-variables regression
[TE]	etpoisson	Poisson regression with endogenous treatment effects
[TE]	etregress	Linear regression with endogenous treatment effects
[R]	fp	Fractional polynomial regression
[R]	frontier	Stochastic frontier models
[R]	glm	Generalized linear models
[R]	heckman	Heckman selection model
[R]	ivpoisson	Poisson model with continuous endogenous covariates
[R]	ivregress	Single-equation instrumental-variables regression
[R]	ivtobit	Tobit model with continuous endogenous covariates
[R]	lpoly	Kernel-weighted local polynomial smoothing
[ME]	meglm	Multilevel mixed-effects generalized linear model
[R]	mfp	Multivariable fractional polynomial models
[ME]	mixed	Multilevel mixed-effects linear regression
[MV]	mvreg	Multivariate regression
[R]	nestreg	Nested model statistics
[TS]	newey	Regression with Newey–West standard errors
[TS]	prais	Prais–Winsten and Cochrane–Orcutt regression
[R]	qreg	Quantile regression
[R]	reg3	Three-stage estimation for systems of simultaneous equations
[R]	regress	Linear regression
[R]	rocfit	Parametric ROC models
[R]	rreg	Robust regression
[ST]	stcox	Cox proportional hazards model
[ST]	stcrreg	Competing-risks regression
[R]	stepwise	Stepwise estimation
[ST]	streg	Parametric survival models
[R]	sureg	Zellner’s seemingly unrelated regression
[R]	tnbreg	Truncated negative binomial regression
[R]	vwls	Variance-weighted least squares
[XT]	xtabond	Arellano–Bond linear dynamic panel-data estimation
[XT]	xtdpd	Linear dynamic panel-data estimation
[XT]	xtdpdsys	Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation
[XT]	xtgee	Fit population-averaged panel-data models by using GEE
[XT]	xtgls	Fit panel-data models by using GLS
[XT]	xthtaylor	Hausman–Taylor estimator for error-components models
[XT]	xtivreg	Instrumental variables and two-stage least squares for panel-data models
[XT]	xtpcse	Linear regression with panel-corrected standard errors
[XT]	xtrc	Random-coefficients model
[XT]	xtreg	Fixed-, between-, and random-effects and population-averaged linear models
[XT]	xtregar	Fixed- and random-effects linear models with an AR(1) disturbance
[XT]	xtstreg	Random-effects parametric survival models

**Logistic and probit regression**

[U]	Chapter 20	Estimation and postestimation commands
[U]	Chapter 26	Overview of Stata estimation commands
[R]	asclogit	Alternative-specific conditional logit (McFadden's choice) model
[R]	asmprobit	Alternative-specific multinomial probit regression
[R]	asroprobit	Alternative-specific rank-ordered probit regression
[R]	biprobit	Bivariate probit regression
[R]	clogit	Conditional (fixed-effects) logistic regression
[R]	cloglog	Complementary log-log regression
[R]	exlogistic	Exact logistic regression
[R]	heckoprobit	Ordered probit model with sample selection
[R]	heckprobit	Probit model with sample selection
[R]	hetprobit	Heteroskedastic probit model
[IRT]	irt 1pl	One-parameter logistic model
[IRT]	irt 2pl	Two-parameter logistic model
[IRT]	irt 3pl	Three-parameter logistic model
[IRT]	irt grm	Graded response model
[IRT]	irt hybrid	Hybrid IRT models
[IRT]	irt nrm	Nominal response model
[IRT]	irt pcm	Partial credit model
[IRT]	irt rsm	Rating scale model
[R]	ivprobit	Probit model with continuous endogenous covariates
[R]	logistic	Logistic regression, reporting odds ratios
[R]	logit	Logistic regression, reporting coefficients
[ME]	melogit	Multilevel mixed-effects logistic regression
[ME]	meologit	Multilevel mixed-effects ordered logistic regression
[ME]	meoprobit	Multilevel mixed-effects ordered probit regression
[ME]	meprobit	Multilevel mixed-effects probit regression
[ME]	meqrlogit	Multilevel mixed-effects logistic regression (QR decomposition)
[R]	mlogit	Multinomial (polytomous) logistic regression
[R]	mprobit	Multinomial probit regression
[R]	nlogit	Nested logit regression
[R]	ologit	Ordered logistic regression
[R]	oprobit	Ordered probit regression
[R]	probit	Probit regression
[R]	rologit	Rank-ordered logistic regression
[R]	scobit	Skewed logistic regression
[R]	slogit	Stereotype logistic regression
[XT]	xtcloglog	Random-effects and population-averaged cloglog models
[XT]	xtgee	Fit population-averaged panel-data models by using GEE
[XT]	xtlogit	Fixed-effects, random-effects, and population-averaged logit models
[XT]	xtologit	Random-effects ordered logistic models
[XT]	xtoprobit	Random-effects ordered probit models
[XT]	xtprobit	Random-effects and population-averaged probit models

**Longitudinal data/panel data**

[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.20	Panel-data models
[ME]	meologit	Multilevel mixed-effects ordered logistic regression
[ME]	meoprobit	Multilevel mixed-effects ordered probit regression
[ME]	mepoisson	Multilevel mixed-effects Poisson regression

[ME]	meprobit	Multilevel mixed-effects probit regression
[ME]	meqrpoisson	Multilevel mixed-effects Poisson regression (QR decomposition)
[ME]	mixed	Multilevel mixed-effects linear regression
[XT]	quadchk	Check sensitivity of quadrature approximation
[XT]	xt	Introduction to xt commands
[XT]	xtabond	Arellano–Bond linear dynamic panel-data estimation
[XT]	xtcloglog	Random-effects and population-averaged cloglog models
[XT]	xtdata	Faster specification searches with xt data
[XT]	xtdescribe	Describe pattern of xt data
[XT]	xtdpd	Linear dynamic panel-data estimation
[XT]	xtdpdsys	Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation
[XT]	xtfrontier	Stochastic frontier models for panel data
[XT]	xtgee	Fit population-averaged panel-data models by using GEE
[XT]	xtgls	Fit panel-data models by using GLS
[XT]	xhtaylor	Hausman–Taylor estimator for error-components models
[XT]	xtintreg	Random-effects interval-data regression models
[XT]	xtivreg	Instrumental variables and two-stage least squares for panel-data models
[XT]	xtline	Panel-data line plots
[XT]	xtlogit	Fixed-effects, random-effects, and population-averaged logit models
[XT]	xtnbreg	Fixed-effects, random-effects, & population-averaged negative binomial models
[XT]	xtologit	Random-effects ordered logistic models
[XT]	xtoprobit	Random-effects ordered probit models
[XT]	xtpcse	Linear regression with panel-corrected standard errors
[XT]	xtpoisson	Fixed-effects, random-effects, and population-averaged Poisson models
[XT]	xtprobit	Random-effects and population-averaged probit models
[XT]	xtrc	Random-coefficients model
[XT]	xtrreg	Fixed-, between-, and random-effects and population-averaged linear models
[XT]	xtregar	Fixed- and random-effects linear models with an AR(1) disturbance
[XT]	xtset	Declare data to be panel data
[XT]	xtstreg	Random-effects parametric survival models
[XT]	xtsum	Summarize xt data
[XT]	xttab	Tabulate xt data
[XT]	xttobit	Random-effects tobit models
[XT]	xtunitroot	Panel-data unit-root tests

### Mixed models

[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.21	Multilevel mixed-effects models
[R]	anova	Analysis of variance and covariance
[R]	icc	Intraclass correlation coefficients
[MV]	manova	Multivariate analysis of variance and covariance
[ME]	me	Introduction to multilevel mixed-effects models
[ME]	mecloglog	Multilevel mixed-effects complementary log-log regression
[ME]	meglm	Multilevel mixed-effects generalized linear model
[ME]	melogit	Multilevel mixed-effects logistic regression
[ME]	menbreg	Multilevel mixed-effects negative binomial regression
[ME]	meologit	Multilevel mixed-effects ordered logistic regression
[ME]	meoprobit	Multilevel mixed-effects ordered probit regression
[ME]	mepoisson	Multilevel mixed-effects Poisson regression
[ME]	meprobit	Multilevel mixed-effects probit regression
[ME]	meqrlogit	Multilevel mixed-effects logistic regression (QR decomposition)

[ME]	<a href="#">meqrpoisson</a>	.....	Multilevel mixed-effects Poisson regression (QR decomposition)
[ME]	<a href="#">mestreg</a>	.....	Multilevel mixed-effects parametric survival models
[ME]	<a href="#">mixed</a>	.....	Multilevel mixed-effects linear regression
[XT]	<a href="#">xtcloglog</a>	.....	Random-effects and population-averaged cloglog models
[XT]	<a href="#">xtintreg</a>	.....	Random-effects interval-data regression models
[XT]	<a href="#">xtlogit</a>	.....	Fixed-effects, random-effects, and population-averaged logit models
[XT]	<a href="#">xtologit</a>	.....	Random-effects ordered logistic models
[XT]	<a href="#">xtoprobit</a>	.....	Random-effects ordered probit models
[XT]	<a href="#">xtprobit</a>	.....	Random-effects and population-averaged probit models
[XT]	<a href="#">xtrc</a>	.....	Random-coefficients model
[XT]	<a href="#">xtreg</a>	Fixed-, between-, and random-effects and population-averaged linear models	
[XT]	<a href="#">xttobit</a>	.....	Random-effects tobit models

### Multidimensional scaling and biplots

[MV]	<a href="#">biplot</a>	.....	Biplots
[MV]	<a href="#">mds</a>	.....	Multidimensional scaling for two-way data
[MV]	<a href="#">mdslong</a>	.....	Multidimensional scaling of proximity data in long format
[MV]	<a href="#">mdsmat</a>	.....	Multidimensional scaling of proximity data in a matrix
[MV]	<a href="#">measure_option</a>	.....	Option for similarity and dissimilarity measures

### Multilevel mixed-effects models

[U]	<a href="#">Section 26.21</a>	.....	Multilevel mixed-effects models
[ME]	<a href="#">me</a>	.....	Introduction to multilevel mixed-effects models
[ME]	<a href="#">mecloglog</a>	.....	Multilevel mixed-effects complementary log-log regression
[ME]	<a href="#">meglm</a>	.....	Multilevel mixed-effects generalized linear model
[ME]	<a href="#">melogit</a>	.....	Multilevel mixed-effects logistic regression
[ME]	<a href="#">menbreg</a>	.....	Multilevel mixed-effects negative binomial regression
[ME]	<a href="#">meologit</a>	.....	Multilevel mixed-effects ordered logistic regression
[ME]	<a href="#">meoprobit</a>	.....	Multilevel mixed-effects ordered probit regression
[ME]	<a href="#">mepoisson</a>	.....	Multilevel mixed-effects Poisson regression
[ME]	<a href="#">meprobit</a>	.....	Multilevel mixed-effects probit regression
[ME]	<a href="#">meqrlogit</a>	.....	Multilevel mixed-effects logistic regression (QR decomposition)
[ME]	<a href="#">meqrpoisson</a>	.....	Multilevel mixed-effects Poisson regression (QR decomposition)
[ME]	<a href="#">mestreg</a>	.....	Multilevel mixed-effects parametric survival models
[ME]	<a href="#">mixed</a>	.....	Multilevel mixed-effects linear regression

### Multiple imputation

[U]	<a href="#">Section 26.27</a>	.....	Multiple imputation
[MI]	<a href="#">estimation</a>	.....	Estimation commands for use with mi estimate
[MI]	<a href="#">intro substantive</a>	.....	Introduction to multiple-imputation analysis
[MI]	<a href="#">mi estimate</a>	.....	Estimation using multiple imputations
[MI]	<a href="#">mi estimate using</a>	.....	Estimation using previously saved estimation results
[MI]	<a href="#">mi estimate postestimation</a>	.....	Postestimation tools for mi estimate
[MI]	<a href="#">mi impute</a>	.....	Impute missing values
[MI]	<a href="#">mi impute chained</a>	.....	Impute missing values using chained equations
[MI]	<a href="#">mi impute intreg</a>	.....	Impute using interval regression
[MI]	<a href="#">mi impute logit</a>	.....	Impute using logistic regression
[MI]	<a href="#">mi impute mlogit</a>	.....	Impute using multinomial logistic regression
[MI]	<a href="#">mi impute monotone</a>	.....	Impute missing values in monotone data
[MI]	<a href="#">mi impute mvn</a>	.....	Impute using multivariate normal regression
[MI]	<a href="#">mi impute nbreg</a>	.....	Impute using negative binomial regression

[MI]	<code>mi impute ologit</code> .....	Impute using ordered logistic regression
[MI]	<code>mi impute pmm</code> .....	Impute using predictive mean matching
[MI]	<code>mi impute poisson</code> .....	Impute using Poisson regression
[MI]	<code>mi impute regress</code> .....	Impute using linear regression
[MI]	<code>mi impute truncreg</code> .....	Impute using truncated regression
[MI]	<code>mi impute usermethod</code> .....	User-defined imputation methods
[MI]	<code>mi predict</code> .....	Obtain multiple-imputation predictions
[MI]	<code>mi test</code> .....	Test hypotheses after mi estimate

### Multivariate analysis of variance and related techniques

[U]	<code>Section 26.28</code> .....	Multivariate and cluster analysis
[MV]	<code>canon</code> .....	Canonical correlations
[MV]	<code>hotelling</code> .....	Hotelling's T-squared generalized means test
[MV]	<code>manova</code> .....	Multivariate analysis of variance and covariance
[MV]	<code>mvreg</code> .....	Multivariate regression
[MV]	<code>mvtest covariances</code> .....	Multivariate tests of covariances
[MV]	<code>mvtest means</code> .....	Multivariate tests of means

### Nonlinear regression

[R]	<code>boxcox</code> .....	Box–Cox regression models
[R]	<code>nl</code> .....	Nonlinear least-squares estimation
[R]	<code>nlsur</code> .....	Estimation of nonlinear systems of equations

### Nonparametric statistics

[R]	<code>bitest</code> .....	Binomial probability test
[R]	<code>bootstrap</code> .....	Bootstrap sampling and estimation
[R]	<code>bsample</code> .....	Sampling with replacement
[R]	<code>bstat</code> .....	Report bootstrap results
[R]	<code>centile</code> .....	Report centile and confidence interval
[R]	<code>cusum</code> .....	Cusum plots and tests for binary variables
[R]	<code>kdensity</code> .....	Univariate kernel density estimation
[R]	<code>ksmirnov</code> .....	Kolmogorov–Smirnov equality-of-distributions test
[R]	<code>kwallis</code> .....	Kruskal–Wallis equality-of-populations rank test
[R]	<code>lowess</code> .....	Lowess smoothing
[R]	<code>lpoly</code> .....	Kernel-weighted local polynomial smoothing
[R]	<code>nptrend</code> .....	Test for trend across ordered groups
[R]	<code>prtest</code> .....	Tests of proportions
[R]	<code>qreg</code> .....	Quantile regression
[R]	<code>ranksum</code> .....	Equality tests on unmatched data
[R]	<code>roc</code> .....	Receiver operating characteristic (ROC) analysis
[R]	<code>rocomp</code> .....	Tests of equality of ROC areas
[R]	<code>rocreg</code> .....	Receiver operating characteristic (ROC) regression
[R]	<code>rocregplot</code> .....	Plot marginal and covariate-specific ROC curves after rocreg
[R]	<code>roctab</code> .....	Nonparametric ROC analysis
[R]	<code>runttest</code> .....	Test for random order
[R]	<code>signrank</code> .....	Equality tests on matched data
[R]	<code>simulate</code> .....	Monte Carlo simulations
[R]	<code>smooth</code> .....	Robust nonlinear smoother
[R]	<code>spearman</code> .....	Spearman's and Kendall's correlations
[R]	<code>symmetry</code> .....	Symmetry and marginal homogeneity tests
[R]	<code>tabulate twoway</code> .....	Two-way table of frequencies



**Ordinal outcomes**

[U]	Chapter 20	Estimation and postestimation commands
[R]	asprobit	Alternative-specific rank-ordered probit regression
[R]	heckprobit	Ordered probit model with sample selection
[IRT]	irt grm	Graded response model
[IRT]	irt pcm	Partial credit model
[IRT]	irt rsm	Rating scale model
[ME]	meologit	Multilevel mixed-effects ordered logistic regression
[ME]	meoprobit	Multilevel mixed-effects ordered probit regression
[R]	ologit	Ordered logistic regression
[R]	oprobit	Ordered probit regression
[R]	rologit	Rank-ordered logistic regression
[XT]	xtologit	Random-effects ordered logistic models
[XT]	xtoprobit	Random-effects ordered probit models

**Other statistics**

[MV]	alpha	Compute interitem correlations (covariances) and Cronbach's alpha
[R]	ameans	Arithmetic, geometric, and harmonic means
[R]	brier	Brier score decomposition
[R]	centile	Report centile and confidence interval
[R]	kappa	Interrater agreement
[MV]	mvtest correlations	Multivariate tests of correlations
[R]	pcorr	Partial and semipartial correlation coefficients
[D]	pctile	Create variable containing percentiles
[D]	range	Generate numerical range

**Pharmacokinetic statistics**

[U]	Section 26.29	Pharmacokinetic data
[R]	pk	Pharmacokinetic (biopharmaceutical) data
[R]	pkcollapse	Generate pharmacokinetic measurement dataset
[R]	pkcross	Analyze crossover experiments
[R]	pkequiv	Perform bioequivalence tests
[R]	pkexamine	Calculate pharmacokinetic measures
[R]	pkshape	Reshape (pharmacokinetic) Latin-square data
[R]	pksumm	Summarize pharmacokinetic data

**Power and sample size**

[U]	Section 26.31	Power and sample-size analysis
[PSS]	GUI	Graphical user interface for power and sample-size analysis
[PSS]	power	Power and sample-size analysis for hypothesis tests
[PSS]	power cmh	Power and sample size for the Cochran–Mantel–Haenszel test
[PSS]	power cox	Power analysis for the Cox proportional hazards model
[PSS]	power exponential	Power analysis for the exponential test
[PSS]	power logrank	Power analysis for the log-rank test
[PSS]	power mcc	Power analysis for matched case–control studies
[PSS]	power onecorrelation	Power analysis for a one-sample correlation test
[PSS]	power onemean	Power analysis for a one-sample mean test
[PSS]	power oneproportion	Power analysis for a one-sample proportion test
[PSS]	power onecorrelation	Power analysis for a one-sample variance test
[PSS]	power oneway	Power analysis for one-way analysis of variance

[PSS]	<a href="#">power pairedmeans</a>	Power analysis for a two-sample paired-means test
[PSS]	<a href="#">power pairedproportions</a>	Power analysis for a two-sample paired-proportions test
[PSS]	<a href="#">power repeated</a>	Power analysis for repeated-measures analysis of variance
[PSS]	<a href="#">power trend</a>	Power analysis for the Cochran–Armitage trend test
[PSS]	<a href="#">power twocorrelations</a>	Power analysis for a two-sample correlations test
[PSS]	<a href="#">power twomeans</a>	Power analysis for a two-sample means test
[PSS]	<a href="#">power twoproportions</a>	Power analysis for a two-sample proportions test
[PSS]	<a href="#">power twovariances</a>	Power analysis for a two-sample variances test
[PSS]	<a href="#">power twoway</a>	Power analysis for two-way analysis of variance
[PSS]	<a href="#">unbalanced designs</a>	Specifications for unbalanced designs

## Quality control

[R]	<a href="#">cusum</a>	Cusum plots and tests for binary variables
[R]	<a href="#">qc</a>	Quality control charts
[R]	<a href="#">serrbar</a>	Graph standard error bar chart

## ROC analysis

[U]	<a href="#">Section 26.8</a>	ROC analysis
[R]	<a href="#">roc</a>	Receiver operating characteristic (ROC) analysis
[R]	<a href="#">roccomp</a>	Tests of equality of ROC areas
[R]	<a href="#">rocfits</a>	Parametric ROC models
[R]	<a href="#">rocfits postestimation</a>	Postestimation tools for rocfits
[R]	<a href="#">roclog</a>	Receiver operating characteristic (ROC) regression
[R]	<a href="#">roclog postestimation</a>	Postestimation tools for roclog
[R]	<a href="#">roclogplot</a>	Plot marginal and covariate-specific ROC curves after roclog
[R]	<a href="#">roctab</a>	Nonparametric ROC analysis

## Rotation

[MV]	<a href="#">procrustes</a>	Procrustes transformation
[MV]	<a href="#">rotate</a>	Orthogonal and oblique rotations after factor and pca
[MV]	<a href="#">rotatemat</a>	Orthogonal and oblique rotations of a Stata matrix

## Sample selection models

[U]	<a href="#">Chapter 20</a>	Estimation and postestimation commands
[U]	<a href="#">Section 26.18</a>	Models with endogenous sample selection
[TE]	<a href="#">etpoisson</a>	Poisson regression with endogenous treatment effects
[TE]	<a href="#">etregress</a>	Linear regression with endogenous treatment effects
[R]	<a href="#">heckman</a>	Heckman selection model
[R]	<a href="#">heckoprobit</a>	Ordered probit model with sample selection
[R]	<a href="#">heckoprobit</a>	Probit model with sample selection

## Simulation/resampling

[R]	<a href="#">bootstrap</a>	Bootstrap sampling and estimation
[R]	<a href="#">bsample</a>	Sampling with replacement
[R]	<a href="#">jackknife</a>	Jackknife estimation
[R]	<a href="#">permute</a>	Monte Carlo permutation tests
[R]	<a href="#">simulate</a>	Monte Carlo simulations

## Standard postestimation tests, tables, and other analyses

[U]	Section 13.5	Accessing coefficients and standard errors
[U]	Chapter 20	Estimation and postestimation commands
[R]	contrast	Contrasts and linear hypothesis tests after estimation
[R]	correlate	Correlations (covariances) of variables or coefficients
[R]	estat	Postestimation statistics
[R]	estat ic	Display information criteria
[R]	estat summarize	Summarize estimation sample
[R]	estat vce	Display covariance matrix estimates
[R]	estimates	Save and manipulate estimation results
[R]	estimates describe	Describe estimation results
[R]	estimates for	Repeat postestimation command across models
[R]	estimates notes	Add notes to estimation results
[R]	estimates replay	Redisplay estimation results
[R]	estimates save	Save and use estimation results
[R]	estimates stats	Model-selection statistics
[R]	estimates store	Store and restore estimation results
[R]	estimates table	Compare estimation results
[R]	estimates title	Set title for estimation results
[TS]	forecast	Econometric model forecasting
[TS]	forecast adjust	Adjust a variable by add factoring, replacing, etc.
[TS]	forecast clear	Clear current model from memory
[TS]	forecast coefvector	Specify an equation via a coefficient vector
[TS]	forecast create	Create a new forecast model
[TS]	forecast describe	Describe features of the forecast model
[TS]	forecast drop	Drop forecast variables
[TS]	forecast estimates	Add estimation results to a forecast model
[TS]	forecast exogenous	Declare exogenous variables
[TS]	forecast identity	Add an identity to a forecast model
[TS]	forecast list	List forecast commands composing current model
[TS]	forecast query	Check whether a forecast model has been started
[TS]	forecast solve	Obtain static and dynamic forecasts
[R]	hausman	Hausman specification test
[R]	lincom	Linear combinations of parameters
[R]	linktest	Specification link test for single-equation models
[R]	lrtest	Likelihood-ratio test after estimation
[R]	margins	Marginal means, predictive margins, and marginal effects
[R]	margins, contrast	Contrasts of margins
[R]	margins, pwcompare	Pairwise comparisons of margins
[R]	marginsplot	Graph results from margins (profile plots, etc.)
[MV]	mvtest	Multivariate tests
[R]	nlcom	Nonlinear combinations of estimators
[R]	postest	Postestimation Selector
[R]	predict	Obtain predictions, residuals, etc., after estimation
[R]	predictnl	Obtain nonlinear predictions, standard errors, etc., after estimation
[R]	pwcompare	Pairwise comparisons
[R]	suest	Seemingly unrelated estimation
[R]	test	Test linear hypotheses after estimation
[R]	testnl	Test nonlinear hypotheses after estimation

**Structural equation modeling**

[U]	Section 26.4	Structural equation modeling (SEM)
[SEM]	Builder	SEM Builder
[SEM]	Builder, generalized	SEM Builder for generalized models
[SEM]	estat eform	Display exponentiated coefficients
[SEM]	estat eqgof	Equation-level goodness-of-fit statistics
[SEM]	estat eqtest	Equation-level test that all coefficients are zero
[SEM]	estat framework	Display estimation results in modeling framework
[SEM]	estat ggof	Group-level goodness-of-fit statistics
[SEM]	estat ginvariant	Tests for invariance of parameters across groups
[SEM]	estat gof	Goodness-of-fit statistics
[SEM]	estat mindices	Modification indices
[SEM]	estat residuals	Display mean and covariance residuals
[SEM]	estat scoretests	Score tests
[SEM]	estat stable	Check stability of nonrecursive system
[SEM]	estat stdize	Test standardized parameters
[SEM]	estat summarize	Report summary statistics for estimation sample
[SEM]	estat teffects	Decomposition of effects into total, direct, and indirect
[SEM]	example 1	Single-factor measurement model
[SEM]	example 2	Creating a dataset from published covariances
[SEM]	example 3	Two-factor measurement model
[SEM]	example 4	Goodness-of-fit statistics
[SEM]	example 5	Modification indices
[SEM]	example 6	Linear regression
[SEM]	example 7	Nonrecursive structural model
[SEM]	example 8	Testing that coefficients are equal, and constraining them
[SEM]	example 9	Structural model with measurement component
[SEM]	example 10	MIMIC model
[SEM]	example 11	estat framework
[SEM]	example 12	Seemingly unrelated regression
[SEM]	example 13	Equation-level Wald test
[SEM]	example 14	Predicted values
[SEM]	example 15	Higher-order CFA
[SEM]	example 16	Correlation
[SEM]	example 17	Correlated uniqueness model
[SEM]	example 18	Latent growth model
[SEM]	example 19	Creating multiple-group summary statistics data
[SEM]	example 20	Two-factor measurement model by group
[SEM]	example 21	Group-level goodness of fit
[SEM]	example 22	Testing parameter equality across groups
[SEM]	example 23	Specifying parameter constraints across groups
[SEM]	example 24	Reliability
[SEM]	example 25	Creating summary statistics data from raw data
[SEM]	example 26	Fitting a model with data missing at random
[SEM]	example 27g	Single-factor measurement model (generalized response)
[SEM]	example 28g	One-parameter logistic IRT (Rasch) model
[SEM]	example 29g	Two-parameter logistic IRT model
[SEM]	example 30g	Two-level measurement model (multilevel, generalized response)
[SEM]	example 31g	Two-factor measurement model (generalized response)
[SEM]	example 32g	Full structural equation model (generalized response)
[SEM]	example 33g	Logistic regression

[SEM]	example 34g	Combined models (generalized responses)
[SEM]	example 35g	Ordered probit and ordered logit
[SEM]	example 36g	MIMIC model (generalized response)
[SEM]	example 37g	Multinomial logistic regression
[SEM]	example 38g	Random-intercept and random-slope models (multilevel)
[SEM]	example 39g	Three-level model (multilevel, generalized response)
[SEM]	example 40g	Crossed models (multilevel)
[SEM]	example 41g	Two-level multinomial logistic regression (multilevel)
[SEM]	example 42g	One- and two-level mediation models (multilevel)
[SEM]	example 43g	Tobit regression
[SEM]	example 44g	Interval regression
[SEM]	example 45g	Heckman selection model
[SEM]	example 46g	Endogenous treatment-effects model
[SEM]	gsem	Generalized structural equation model estimation command
[SEM]	gsem estimation options	Options affecting estimation
[SEM]	gsem family-and-link options	Family-and-link options
[SEM]	gsem model description options	Model description options
[SEM]	gsem path notation extensions	Command syntax for path diagrams
[SEM]	gsem postestimation	Postestimation tools for gsem
[SEM]	gsem reporting options	Options affecting reporting of results
[SEM]	intro 1	Introduction
[SEM]	intro 2	Learning the language: Path diagrams and command language
[SEM]	intro 3	Learning the language: Factor-variable notation (gsem only)
[SEM]	intro 4	Substantive concepts
[SEM]	intro 5	Tour of models
[SEM]	intro 6	Comparing groups (sem only)
[SEM]	intro 7	Postestimation tests and predictions
[SEM]	intro 8	Robust and clustered standard errors
[SEM]	intro 9	Standard errors, the full story
[SEM]	intro 10	Fitting models with survey data
[SEM]	intro 11	Fitting models with summary statistics data (sem only)
[SEM]	intro 12	Convergence problems and how to solve them
[SEM]	lincom	Linear combinations of parameters
[SEM]	lrtest	Likelihood-ratio test of linear hypothesis
[SEM]	methods and formulas for gsem	Methods and formulas for gsem
[SEM]	methods and formulas for sem	Methods and formulas for sem
[SEM]	nlcom	Nonlinear combinations of parameters
[SEM]	predict after gsem	Generalized linear predictions, etc.
[SEM]	predict after sem	Factor scores, linear predictions, etc.
[SEM]	sem	Structural equation model estimation command
[SEM]	sem and gsem option constraints()	Specifying constraints
[SEM]	sem and gsem option covstructure()	Specifying covariance restrictions
[SEM]	sem and gsem option from()	Specifying starting values
[SEM]	sem and gsem option reliability()	Fraction of variance not due to measurement error
[SEM]	sem and gsem path notation	Command syntax for path diagrams
[SEM]	sem and gsem syntax options	Options affecting interpretation of syntax
[SEM]	sem estimation options	Options affecting estimation
[SEM]	sem group options	Fitting models on different groups
[SEM]	sem model description options	Model description options
[SEM]	sem option method()	Specifying method and calculation of VCE
[SEM]	sem option noxconditional	Computing means, etc., of observed exogenous variables

[SEM]	<code>sem option select()</code> .....	Using sem with summary statistics data
[SEM]	<code>sem path notation extensions</code> .....	Command syntax for path diagrams
[SEM]	<code>sem postestimation</code> .....	Postestimation tools for sem
[SEM]	<code>sem reporting options</code> .....	Options affecting reporting of results
[SEM]	<code>sem ssd options</code> .....	Options for use with summary statistics data
[SEM]	<code>ssd</code> .....	Making summary statistics data (sem only)
[SEM]	<code>test</code> .....	Wald test of linear hypotheses
[SEM]	<code>testnl</code> .....	Wald test of nonlinear hypotheses

## Survey data

[U]	Chapter 20 .....	Estimation and postestimation commands
[U]	Section 26.26 .....	Survey data
[SVY]	<code>survey</code> .....	Introduction to survey commands
[SVY]	<code>bootstrap_options</code> .....	More options for bootstrap variance estimation
[SVY]	<code>brr_options</code> .....	More options for BRR variance estimation
[SVY]	<code>direct standardization</code> .....	Direct standardization of means, proportions, and ratios
[SVY]	<code>estat</code> .....	Postestimation statistics for survey data
[SVY]	<code>jackknife_options</code> .....	More options for jackknife variance estimation
[SVY]	<code>ml for svy</code> .....	Maximum pseudolikelihood estimation for survey data
[SVY]	<code>poststratification</code> .....	Poststratification for survey data
[P]	<code>_robust</code> .....	Robust variance estimates
[SVY]	<code>sdr_options</code> .....	More options for SDR variance estimation
[SVY]	<code>subpopulation estimation</code> .....	Subpopulation estimation for survey data
[SVY]	<code>svy</code> .....	The survey prefix command
[SVY]	<code>svy bootstrap</code> .....	Bootstrap for survey data
[SVY]	<code>svy brr</code> .....	Balanced repeated replication for survey data
[SVY]	<code>svy estimation</code> .....	Estimation commands for survey data
[SVY]	<code>svy jackknife</code> .....	Jackknife estimation for survey data
[SVY]	<code>svy postestimation</code> .....	Postestimation tools for svy
[SVY]	<code>svy sdr</code> .....	Successive difference replication for survey data
[SVY]	<code>svy: tabulate oneway</code> .....	One-way tables for survey data
[SVY]	<code>svy: tabulate twoway</code> .....	Two-way tables for survey data
[SVY]	<code>svydescribe</code> .....	Describe survey data
[SVY]	<code>svymarkout</code> .....	Mark observations for exclusion on the basis of survey characteristics
[SVY]	<code>svyset</code> .....	Declare survey design for dataset
[MI]	<code>mi XXXset</code> .....	Declare mi data to be svy, st, ts, xt, etc.
[SVY]	<code>variance estimation</code> .....	Variance estimation for survey data

## Survival analysis

[U]	Chapter 20 .....	Estimation and postestimation commands
[U]	Section 26.20.6 .....	Survival models with panel data
[U]	Section 26.22 .....	Survival-time (failure-time) models
[U]	Section 26.23 .....	Treatment-effect models
[U]	Section 26.31 .....	Power and sample-size analysis
[ST]	<code>survival analysis</code> .....	Introduction to survival analysis
[ST]	<code>ct</code> .....	Count-time data
[ST]	<code>ctset</code> .....	Declare data to be count-time data
[ST]	<code>cttost</code> .....	Convert count-time data to survival-time data
[ST]	<code>discrete</code> .....	Discrete-time survival analysis
[ST]	<code>ltable</code> .....	Life tables for survival data
[ME]	<code>mestreg</code> .....	Multilevel mixed-effects parametric survival models

[ST]	<code>snapspan</code>	Convert snapshot data to time-span data
[ST]	<code>st</code>	Survival-time data
[ST]	<code>st_is</code>	Survival analysis subroutines for programmers
[ST]	<code>stbase</code>	Form baseline dataset
[ST]	<code>stci</code>	Confidence intervals for means and percentiles of survival time
[ST]	<code>stcox</code>	Cox proportional hazards model
[ST]	<code>stcox PH-assumption tests</code>	Tests of proportional-hazards assumption
[ST]	<code>stcrreg</code>	Competing-risks regression
[ST]	<code>stcurve</code>	Plot survivor, hazard, cumulative hazard, or cumulative incidence function
[ST]	<code>stdescribe</code>	Describe survival-time data
[R]	<code>stepwise</code>	Stepwise estimation
[ST]	<code>stfill</code>	Fill in by carrying forward values of covariates
[ST]	<code>stgen</code>	Generate variables reflecting entire histories
[ST]	<code>stir</code>	Report incidence-rate comparison
[ST]	<code>stptime</code>	Calculate person-time, incidence rates, and SMR
[ST]	<code>strate</code>	Tabulate failure rates and rate ratios
[ST]	<code>streg</code>	Parametric survival models
[ST]	<code>sts</code>	Generate, graph, list, and test the survivor and cumulative hazard functions
[ST]	<code>sts generate</code>	Create variables containing survivor and related functions
[ST]	<code>sts graph</code>	Graph the survivor, hazard, or cumulative hazard function
[ST]	<code>sts list</code>	List the survivor or cumulative hazard function
[ST]	<code>sts test</code>	Test equality of survivor functions
[ST]	<code>stset</code>	Declare data to be survival-time data
[MI]	<code>mi XXXset</code>	Declare mi data to be svy, st, ts, xt, etc.
[ST]	<code>stsplit</code>	Split and join time-span records
[MI]	<code>mi stsplit</code>	Stsplit and stjoin mi data
[ST]	<code>stsum</code>	Summarize survival-time data
[TE]	<code>stteffects ipw</code>	Survival-time inverse-probability weighting
[TE]	<code>stteffects ipwra</code>	Survival-time inverse-probability-weighted regression adjustment
[TE]	<code>stteffects ra</code>	Survival-time regression adjustment
[TE]	<code>stteffects wra</code>	Survival-time weighted regression adjustment
[ST]	<code>sttocc</code>	Convert survival-time data to case-control data
[ST]	<code>sttoct</code>	Convert survival-time data to count-time data
[ST]	<code>stvary</code>	Report variables that vary over time
[XT]	<code>xtstreg</code>	Random-effects parametric survival models

Also see *Power and sample size*

### Time series, multivariate

[U]	Section 11.4.4	Time-series varlists
[U]	Section 13.10	Time-series operators
[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.19	Models with time-series data
[TS]	<code>time series</code>	Introduction to time-series commands
[TS]	<code>dfactor</code>	Dynamic-factor models
[TS]	<code>fcast compute</code>	Compute dynamic forecasts after var, svar, or vec
[TS]	<code>fcast graph</code>	Graph forecasts after fcast compute
[TS]	<code>forecast</code>	Econometric model forecasting
[TS]	<code>forecast adjust</code>	Adjust a variable by add factoring, replacing, etc.
[TS]	<code>forecast clear</code>	Clear current model from memory
[TS]	<code>forecast coefvector</code>	Specify an equation via a coefficient vector
[TS]	<code>forecast create</code>	Create a new forecast model



[TS]	forecast describe	Describe features of the forecast model
[TS]	forecast drop	Drop forecast variables
[TS]	forecast estimates	Add estimation results to a forecast model
[TS]	forecast exogenous	Declare exogenous variables
[TS]	forecast identity	Add an identity to a forecast model
[TS]	forecast list	List forecast commands composing current model
[TS]	forecast query	Check whether a forecast model has been started
[TS]	forecast solve	Obtain static and dynamic forecasts
[TS]	irf	Create and analyze IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf add	Add results from an IRF file to the active IRF file
[TS]	irf cgraph	Combined graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf create	Obtain IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf ctable	Combined tables of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf describe	Describe an IRF file
[TS]	irf drop	Drop IRF results from the active IRF file
[TS]	irf graph	Graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf ograph	Overlaid graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	irf rename	Rename an IRF result in an IRF file
[TS]	irf set	Set the active IRF file
[TS]	irf table	Tables of IRFs, dynamic-multiplier functions, and FEVDs
[TS]	mgarch	Multivariate GARCH models
[TS]	mgarch ccc	Constant conditional correlation multivariate GARCH models
[TS]	mgarch dcc	Dynamic conditional correlation multivariate GARCH models
[TS]	mgarch dvech	Diagonal vech multivariate GARCH models
[TS]	mgarch vcc	Varying conditional correlation multivariate GARCH models
[TS]	rolling	Rolling-window and recursive estimation
[TS]	sspace	State-space models
[TS]	tsappend	Add observations to a time-series dataset
[TS]	tsfill	Fill in gaps in time variable
[TS]	tsline	Plot time-series data
[TS]	tsreport	Report time-series aspects of a dataset or estimation sample
[TS]	tsrevar	Time-series operator programming command
[TS]	tsset	Declare data to be time-series data
[TS]	var intro	Introduction to vector autoregressive models
[TS]	var svar	Structural vector autoregressive models
[TS]	var	Vector autoregressive models
[TS]	varbasic	Fit a simple VAR and graph IRFs or FEVDs
[TS]	vargranger	Perform pairwise Granger causality tests after var or svar
[TS]	varlmar	Perform LM test for residual autocorrelation after var or svar
[TS]	varnorm	Test for normally distributed disturbances after var or svar
[TS]	varsoc	Obtain lag-order selection statistics for VARs and VECMs
[TS]	varstable	Check the stability condition of VAR or SVAR estimates
[TS]	varwle	Obtain Wald lag-exclusion statistics after var or svar
[TS]	vec intro	Introduction to vector error-correction models
[TS]	vec	Vector error-correction models
[TS]	veclmar	Perform LM test for residual autocorrelation after vec
[TS]	vecnorm	Test for normally distributed disturbances after vec
[TS]	vecrank	Estimate the cointegrating rank of a VECM
[TS]	vecstable	Check the stability condition of VECM estimates
[TS]	xcorr	Cross-correlogram for bivariate time series



**Time series, univariate**

[U]	Section 11.4.4	Time-series varlists
[U]	Section 13.10	Time-series operators
[U]	Chapter 20	Estimation and postestimation commands
[U]	Section 26.19	Models with time-series data
[TS]	time series	Introduction to time-series commands
[TS]	arch	Autoregressive conditional heteroskedasticity (ARCH) family of estimators
[TS]	arfima	Autoregressive fractionally integrated moving-average models
[TS]	arima	ARIMA, ARMAX, and other dynamic regression models
[TS]	corrgram	Tabulate and graph autocorrelations
[TS]	cumsp	Cumulative spectral distribution
[TS]	dfgls	DF-GLS unit-root test
[TS]	dfuller	Augmented Dickey–Fuller unit-root test
[TS]	estat acplot	Plot parametric autocorrelation and autocovariance functions
[TS]	estat aroots	Check the stability condition of ARIMA estimates
[TS]	estat sbknown	Test for a structural break with a known break date
[TS]	estat sbsingle	Test for a structural break with an unknown break date
[TS]	forecast	Econometric model forecasting
[TS]	forecast adjust	Adjust a variable by add factoring, replacing, etc.
[TS]	forecast clear	Clear current model from memory
[TS]	forecast coefvector	Specify an equation via a coefficient vector
[TS]	forecast create	Create a new forecast model
[TS]	forecast describe	Describe features of the forecast model
[TS]	forecast drop	Drop forecast variables
[TS]	forecast estimates	Add estimation results to a forecast model
[TS]	forecast exogenous	Declare exogenous variables
[TS]	forecast identity	Add an identity to a forecast model
[TS]	forecast list	List forecast commands composing current model
[TS]	forecast query	Check whether a forecast model has been started
[TS]	forecast solve	Obtain static and dynamic forecasts
[TS]	mswitch	Markov-switching regression models
[TS]	newey	Regression with Newey–West standard errors
[TS]	pergram	Periodogram
[TS]	pperron	Phillips–Perron unit-root test
[TS]	prais	Prais–Winsten and Cochrane–Orcutt regression
[TS]	psdensity	Parametric spectral density estimation after arima, arfima, and ucm
[R]	regress postestimation time series	Postestimation tools for regress with time series
[TS]	rolling	Rolling-window and recursive estimation
[TS]	sspace	State-space models
[TS]	tsappend	Add observations to a time-series dataset
[TS]	tsfill	Fill in gaps in time variable
[TS]	tsfilter	Filter a time-series, keeping only selected periodicities
[TS]	tsfilter bk	Baxter–King time-series filter
[TS]	tsfilter bw	Butterworth time-series filter
[TS]	tsfilter cf	Christiano–Fitzgerald time-series filter
[TS]	tsfilter hp	Hodrick–Prescott time-series filter
[TS]	tsline	Plot time-series data
[TS]	tsreport	Report time-series aspects of a dataset or estimation sample
[TS]	tsrevar	Time-series operator programming command
[TS]	tsset	Declare data to be time-series data
[TS]	tssmooth	Smooth and forecast univariate time-series data

[TS]	tssmooth dexpontial	Double-exponential smoothing
[TS]	tssmooth exponential	Single-exponential smoothing
[TS]	tssmooth hwinters	Holt–Winters nonseasonal smoothing
[TS]	tssmooth ma	Moving-average filter
[TS]	tssmooth nl	Nonlinear filter
[TS]	tssmooth shwinters	Holt–Winters seasonal smoothing
[TS]	ucm	Unobserved-components model
[TS]	wntestb	Bartlett’s periodogram-based test for white noise
[TS]	wntestq	Portmanteau (Q) test for white noise
[TS]	xcorr	Cross-correlogram for bivariate time series

### Transforms and normality tests

[R]	boxcox	Box–Cox regression models
[R]	fp	Fractional polynomial regression
[R]	ladder	Ladder of powers
[R]	lnskew0	Find zero-skewness log or Box–Cox transform
[R]	mfp	Multivariable fractional polynomial models
[MV]	mvtest normality	Multivariate normality tests
[R]	sktest	Skewness and kurtosis test for normality
[R]	swilk	Shapiro–Wilk and Shapiro–Francia tests for normality

### Treatment effects

[U]	Section 26.23	Treatment-effect models
[TE]	eteffects	Endogenous treatment-effects estimation
[TE]	etpoisson	Poisson regression with endogenous treatment effects
[TE]	etregress	Linear regression with endogenous treatment effects
[TE]	stteffects	Treatment-effects estimation for observational survival-time data
[TE]	stteffects intro	Introduction to treatment effects for observational survival-time data
[TE]	stteffects ipw	Survival-time inverse-probability weighting
[TE]	stteffects ipwra	Survival-time inverse-probability-weighted regression adjustment
[TE]	stteffects ra	Survival-time regression adjustment
[TE]	stteffects wra	Survival-time weighted regression adjustment
[TE]	tebalance	Check balance after teffects or stteffects estimation
[TE]	tebalance box	Covariate balance box
[TE]	tebalance density	Covariate balance density
[TE]	tebalance overid	Test for covariate balance
[TE]	tebalance summarize	Covariate-balance summary statistics
[TE]	teffects	Treatment-effects estimation for observational data
[TE]	teffects aipw	Augmented inverse-probability weighting
[TE]	teffects intro	Introduction to treatment effects for observational data
[TE]	teffects intro advanced	Advanced introduction to treatment effects for observational data
[TE]	teffects ipw	Inverse-probability weighting
[TE]	teffects ipwra	Inverse-probability-weighted regression adjustment
[TE]	teffects multivalued	Multivalued treatment effects
[TE]	teffects nnmatch	Nearest-neighbor matching
[TE]	teffects overlap	Overlap plots
[TE]	teffects psmatch	Propensity-score matching
[TE]	teffects ra	Regression adjustment
[TE]	treatment effects	Introduction to treatment-effects commands

## Matrix commands

### Basics

[U]	Chapter 14	Matrix expressions
[P]	matlist	Display a matrix and control its format
[P]	matrix	Introduction to matrix commands
[P]	matrix define	Matrix definition, operators, and functions
[P]	matrix utility	List, rename, and drop matrices

### Programming

[P]	ereturn	Post the estimation results
[P]	matrix accum	Form cross-product matrices
[P]	matrix rownames	Name rows and columns
[P]	matrix score	Score data from coefficient vectors
[R]	ml	Maximum likelihood estimation
[M]	<i>Mata Reference Manual</i>	

### Other

[P]	makecns	Constrained estimation
[P]	matrix dissimilarity	Compute similarity or dissimilarity measures
[P]	matrix eigenvalues	Eigenvalues of nonsymmetric matrices
[P]	matrix get	Access system matrices
[P]	matrix mkmat	Convert variables to matrix and vice versa
[P]	matrix svd	Singular value decomposition
[P]	matrix syeigen	Eigenvalues and eigenvectors of symmetric matrices

### Mata

[D]	putmata	Put Stata variables into Mata and vice versa
[M]	<i>Mata Reference Manual</i>	

## Programming

### Basics

[U]	Chapter 18	Programming Stata
[U]	Section 18.3	Macros
[U]	Section 18.11	Ado-files
[P]	comments	Add comments to programs
[P]	fvexpand	Expand factor varlists
[P]	macro	Macro definition and manipulation
[P]	program	Define and manipulate programs
[P]	return	Return stored results

### Program control

[U]	Section 18.11.1	Version
[P]	capture	Capture return code
[P]	continue	Break out of loops
[P]	error	Display generic error message and exit
[P]	foreach	Loop over items
[P]	forvalues	Loop over consecutive values

[P]	if .....	if programming command
[P]	version .....	Version control
[P]	while .....	Looping

### Parsing and program arguments

[U]	Section 18.4 .....	Program arguments
[P]	confirm .....	Argument verification
[P]	gettoken .....	Low-level parsing
[P]	levelsof .....	Levels of variable
[P]	numlist .....	Parse numeric lists
[P]	syntax .....	Parse Stata syntax
[P]	tokenize .....	Divide strings into tokens

### Console output

[U]	Section 12.4.2 .....	Handling Unicode strings
[P]	dialog programming .....	Dialog programming
[P]	display .....	Display strings and values of scalar expressions
[P]	smcl .....	Stata Markup and Control Language
[P]	tabdisp .....	Display tables
[D]	unicode .....	Unicode utilities

### Commonly used programming commands

[P]	byable .....	Make programs byable
[P]	#delimit .....	Change delimiter
[P]	exit .....	Exit from a program or do-file
[R]	fvrevar .....	Factor-variables operator programming command
[P]	mark .....	Mark observations for inclusion
[P]	matrix .....	Introduction to matrix commands
[P]	more .....	Pause until key is pressed
[P]	nopreserve option .....	nopreserve option
[P]	preserve .....	Preserve and restore data
[P]	quietly .....	Quietly and noisily perform Stata command
[P]	scalar .....	Scalar variables
[P]	smcl .....	Stata Markup and Control Language
[P]	sortpreserve .....	Sort within programs
[P]	timer .....	Time sections of code by recording and reporting time spent
[TS]	tsrevar .....	Time-series operator programming command

### Debugging

[P]	pause .....	Program debugging command
[P]	timer .....	Time sections of code by recording and reporting time spent
[P]	trace .....	Debug Stata programs

### Advanced programming commands

[U]	Section 12.4.2.5 .....	Sorting strings containing Unicode characters
[M-5]	Pdf*() .....	Create a PDF file
[M-5]	_docx*() .....	Generate Office Open XML (.docx) file
[P]	automation .....	Automation
[P]	break .....	Suppress Break key
[P]	char .....	Characteristics

[M-2]	<code>class</code> .....	Object-oriented programming (classes)
[P]	<code>class</code> .....	Class programming
[P]	<code>class exit</code> .....	Exit class-member program and return result
[P]	<code>classutil</code> .....	Class programming utility
[P]	<code>estat programming</code> .....	Controlling estat after user-written commands
[P]	<code>_estimates</code> .....	Manage estimation results
[P]	<code>file</code> .....	Read and write text and binary files
[P]	<code>findfile</code> .....	Find file in path
[P]	<code>include</code> .....	Include commands from file
[P]	<code>java</code> .....	Java plugins
[P]	<code>javacall</code> .....	Call a static Java method
[P]	<code>macro</code> .....	Macro definition and manipulation
[P]	<code>macro lists</code> .....	Manipulate lists
[R]	<code>ml</code> .....	Maximum likelihood estimation
[M-5]	<code>moptimize()</code> .....	Model optimization
[M-5]	<code>optimize()</code> .....	Function optimization
[P]	<code>plugin</code> .....	Load a plugin
[P]	<code>postfile</code> .....	Post results in Stata dataset
[P]	<code>_predict</code> .....	Obtain predictions, residuals, etc., after estimation programming command
[P]	<code>program properties</code> .....	Properties of user-defined programs
[P]	<code>putexcel</code> .....	Export results to an Excel file
[P]	<code>putexcel advanced</code> .....	Export results to an Excel file using advanced syntax
[D]	<code>putmata</code> .....	Put Stata variables into Mata and vice versa
[P]	<code>_return</code> .....	Preserve stored results
[P]	<code>_rmcoll</code> .....	Remove collinear variables
[P]	<code>_robust</code> .....	Robust variance estimates
[P]	<code>serset</code> .....	Create and manipulate sersets
[D]	<code>snapshot</code> .....	Save and restore data snapshots
[P]	<code>unab</code> .....	Unabbreviate variable list
[P]	<code>unabcmd</code> .....	Unabbreviate command name
[D]	<code>unicode collator</code> .....	Language-specific Unicode collators
[D]	<code>unicode convertfile</code> .....	Low-level file conversion between encodings
[P]	<code>varabbrev</code> .....	Control variable abbreviation
[P]	<code>viewsource</code> .....	View source code
[M-5]	<code>xl()</code> .....	Excel file I/O class

### Special-interest programming commands

[R]	<code>bstat</code> .....	Report bootstrap results
[MV]	<code>cluster programming subroutines</code> .....	Add cluster-analysis routines
[MV]	<code>cluster programming utilities</code> .....	Cluster-analysis programming utilities
[R]	<code>fvvar</code> .....	Factor-variables operator programming command
[P]	<code>matrix dissimilarity</code> .....	Compute similarity or dissimilarity measures
[MI]	<code>mi select</code> .....	Programmer's alternative to <code>mi extract</code>
[ST]	<code>st_is</code> .....	Survival analysis subroutines for programmers
[SVY]	<code>svymarkout</code> .....	Mark observations for exclusion on the basis of survey characteristics
[MI]	<code>technical</code> .....	Details for programmers
[TS]	<code>tsrevar</code> .....	Time-series operator programming command

### Projects

[P]	<code>Project Manager</code> .....	Organize Stata files
-----	------------------------------------	----------------------

**File formats**

[P]	<a href="#">file formats .dta</a> .....	Description of .dta file format
[D]	<a href="#">unicode convertfile</a> .....	Low-level file conversion between encodings
[D]	<a href="#">unicode translate</a> .....	Translate files to Unicode

**Mata**

[M]	<a href="#">Mata Reference Manual</a> .....	
-----	---	--

**Interface features**

[GS]	<a href="#">Chapter 1 (GSM, GSU, GSW)</a> .....	Introducing Stata—sample session
[GS]	<a href="#">Chapter 2 (GSM, GSU, GSW)</a> .....	The Stata user interface
[GS]	<a href="#">Chapter 3 (GSM, GSU, GSW)</a> .....	Using the Viewer
[GS]	<a href="#">Chapter 6 (GSM, GSU, GSW)</a> .....	Using the Data Editor
[GS]	<a href="#">Chapter 7 (GSM, GSU, GSW)</a> .....	Using the Variables Manager
[GS]	<a href="#">Chapter 13 (GSM, GSU, GSW)</a> .....	Using the Do-file Editor—automating Stata
[GS]	<a href="#">Chapter 15 (GSM, GSU, GSW)</a> .....	Editing graphs
[P]	<a href="#">dialog programming</a> .....	Dialog programming
[R]	<a href="#">doedit</a> .....	Edit do-files and other text files
[D]	<a href="#">edit</a> .....	Browse or edit data with Data Editor
[P]	<a href="#">set locale_ui</a> .....	Specify a localization package for the user interface
[P]	<a href="#">sleep</a> .....	Pause for a specified time
[P]	<a href="#">smcl</a> .....	Stata Markup and Control Language
[D]	<a href="#">unicode locale</a> .....	Unicode locale utilities
[D]	<a href="#">varmanage</a> .....	Manage variable labels, formats, and other properties
[P]	<a href="#">viewsource</a> .....	View source code
[P]	<a href="#">window fopen</a> .....	Display open/save dialog box
[P]	<a href="#">window manage</a> .....	Manage window characteristics
[P]	<a href="#">window menu</a> .....	Create menus
[P]	<a href="#">window programming</a> .....	Programming menus and windows
[P]	<a href="#">window push</a> .....	Copy command into Review window
[P]	<a href="#">window stopbox</a> .....	Display message box