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Getting started

[GSN] Getting Started with Stata for Mac .............................................
[GSU] Getting Started with Stata for Unix ...........................................
[GSD] Getting Started with Stata for Windows ......................................
[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] Intro ................................................. Introduction to data management reference manual
[D] Data management ............................... Introduction to data management commands
[D] codebook .................................................. Describe data contents
[D] Data types .................................................. Quick reference for data types
[D] Datetime .................................................... Date and time values and variables
[D] Datetime durations ............................... Obtaining and working with durations
[D] Datetime relative dates ...................... Obtaining dates and date information from other dates
[D] Datetime values from other software . Date and time conversion from other software
Creating and dropping variables

- clear ......................................................... Clear memory
- compress .................................................. Compress data in memory
- drop ......................................................... Drop variables or observations
- dyngen ...................................................... Dynamically generate new values of variables
- egen .......................................................... Extensions to generate
- frame copy .................................................. Make a copy of a frame
- frame drop .................................................. Drop frames from memory
- frame put ................................................... Copy selected variables or observations to a new frame
- frames reset ............................................... Drop all frames from memory
- generate .................................................... Create or change contents of variable

Mathematical functions

Matrix functions

Orthogonalize variables and compute orthogonal polynomials

Programming functions

Random-number functions

Selecting time-span functions

Statistical functions

String functions

Trigonometric functions

Functions and expressions

- Section 12.4.2.1 ........................................... Unicode string functions
- Chapter 13 .................................................. Functions and expressions
- egen .......................................................... Extensions to generate
- Mathematical functions
- Matrix functions
- Programming functions
- Random-number functions
- Selecting time-span functions
- Statistical functions
- String functions
- Trigonometric functions
Strings

Section 12.4 .................................................. Strings
Section 12.4.2 ........................................... Handling Unicode strings
Chapter 24 .................................................. Working with strings
Data types ................................................. Quick reference for data types
String functions ............................................ Unicode utilities

Dates and times

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Chapter 25 .................................................. Working with dates and times
bcal ......................................................... Business calendar file manipulation
Datetime .................................................... Date and time values and variables
Datetime business calendars ................................ Business calendars
Datetime business calendars creation ........................ Business calendars creation
Datetime conversion ........................................ Converting strings to Stata dates
Datetime display formats ................................ Display formats for dates and times
Datetime durations ........................................ Obtaining and working with durations
Datetime relative dates .................................. Obtaining dates and date information from other dates
Datetime values from other software .................. Date and time conversion from other software

Loading, saving, importing, and exporting data

Chapter 6 (GSM, GSU, GSW) .......................... Using the Data Editor
Chapter 22 .................................................. Entering and importing data
edit .......................................................... Browse or edit data with Data Editor
export ....................................................... Overview of exporting data from Stata
frames save ............................................... Save a set of frames on disk
frames use ................................................... Load a set of frames from disk
import ....................................................... Overview of importing data into Stata
import dbase ............................................... Import and export dBase files
import delimited .......................................... Import and export delimited text data
import excel ............................................... Import and export Excel files
import fred ............................................... Import data from Federal Reserve Economic Data
import haver ............................................... Import data from Haver Analytics databases
import sas .................................................. Import SAS files
import sasxport5 ........................................ Import and export data in SAS XPORT Version 5 format
import sasxport8 ........................................ Import and export data in SAS XPORT Version 8 format
import spss ............................................... Import and export SPSS files
infile (fixed format) ..................................... Import text data in fixed format with a dictionary
infile (free format) ....................................... Import unformatted text data
infixed (fixed format) .................................... Import text data in fixed format
input ....................................................... Enter data from keyboard
jdbc ........................................................ Load, write, or view data from a database with a Java API
odbc ........................................................ Load, write, or view data from ODBC sources
outfile ..................................................... Export dataset in text format
save ........................................................ Save Stata dataset
sysuse ..................................................... Use shipped dataset
use .......................................................... Load Stata dataset
webuse .................................................... Use dataset from Stata website
### Combining data

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<tr>
<th>Code</th>
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<td>[U]</td>
<td>Chapter 23</td>
<td>Combining datasets</td>
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<tr>
<td>[D]</td>
<td>append</td>
<td>Append datasets</td>
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<tr>
<td>[MI]</td>
<td>mi append</td>
<td>Append mi data</td>
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<tr>
<td>[D]</td>
<td>cross</td>
<td>Form every pairwise combination of two datasets</td>
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<tr>
<td>[D]</td>
<td>fralias</td>
<td>Alias variables from linked frames</td>
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<tr>
<td>[D]</td>
<td>fget</td>
<td>Copy variables from linked frame</td>
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<td>[D]</td>
<td>flink</td>
<td>Link frames</td>
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<tr>
<td>[D]</td>
<td>frunalias</td>
<td>Change storage type of alias variables</td>
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<tr>
<td>[D]</td>
<td>merge</td>
<td>Merge datasets</td>
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<tr>
<td>[MI]</td>
<td>mi merge</td>
<td>Merge mi data</td>
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<tr>
<td>[D]</td>
<td>assert</td>
<td>Verify truth of claim</td>
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<td>[D]</td>
<td>assertnested</td>
<td>Verify variables nested</td>
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<td>[D]</td>
<td>checksum</td>
<td>Calculate checksum of file</td>
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<td>[P]</td>
<td>_datasignature</td>
<td>Determine whether data have changed</td>
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<tr>
<td>[D]</td>
<td>datasignature</td>
<td>Determine whether data have changed</td>
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<tr>
<td>[D]</td>
<td>notes</td>
<td>Place notes in data</td>
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<tr>
<td>[P]</td>
<td>signestimationsample</td>
<td>Determine whether the estimation sample has changed</td>
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### Reshaping datasets

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<td>[D]</td>
<td>collapse</td>
<td>Make dataset of summary statistics</td>
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<tr>
<td>[D]</td>
<td>contract</td>
<td>Make dataset of frequencies and percentages</td>
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<td>[D]</td>
<td>expand</td>
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<tr>
<td>[D]</td>
<td>expandcl</td>
<td>Duplicate clustered observations</td>
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<td>[D]</td>
<td>fillin</td>
<td>Rectangularize dataset</td>
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<td>obs</td>
<td>Increase the number of observations in a dataset</td>
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<td>reshape</td>
<td>Convert data from wide to long form and vice versa</td>
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<td>mi reshape</td>
<td>Reshape mi data</td>
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<td>rolling</td>
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<td>stack</td>
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<td>statsby</td>
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### Labeling, display formats, and notes

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<td>[D]</td>
<td>format</td>
<td>Set variables’ output format</td>
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<td>label</td>
<td>Manipulate labels</td>
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<td>[D]</td>
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<td>Labels for variables and values in multiple languages</td>
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<td>labelbook</td>
<td>Label utilities</td>
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<td>[D]</td>
<td>notes</td>
<td>Place notes in data</td>
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<td>[D]</td>
<td>varmanage</td>
<td>Manage variable labels, formats, and other properties</td>
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Changing and renaming variables

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[U] Chapter 26 ........................................... Working with categorical data and factor variables
[D] clonevar ............................................................... Clone existing variable
[D] destring .......................................................... Convert string variables to numeric variables and vice versa
[D] dynen .............................................................. Dynamically generate new values of variables
[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
[CM] cfsummarize ........................................................ Summarize variables by chosen alternatives
[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 a file
[D] ds ................................................................. Compactly list variables with specified properties
[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
[M] mi describe ............................................................ Describe mi data
[M] mi misstable ........................................................ Tabulate pattern of missing values
[D] pctl ................................................................. 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 intro ........................................................ Introduction to tables of frequencies, summaries, and command results
[R] table ............................................................... Table of frequencies, summaries, and command results
[R] table multiway .................................................... Multiway tables
[R] table oneway ...................................................... One-way tabulation
[R] table summary .................................................... Table of summary statistics
[R] table twoway ...................................................... Two-way tabulation
[R] tabstat .......................................................... Compact table of summary statistics
[R] tabulate oneway ................................................ One-way table of frequencies
[R] tabulate twoway ................................................ Two-way table of frequencies
Combined subject table of contents

[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] changeeol Convert end-of-line characters of text file
[D] checksum Calculate checksum of file
[D] dir Display filenames
[D] erase Erase a disk file
[D] filefilter Convert ASCII or binary patterns in a file
[D] mkdir Create a new frame
[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] frame change Change identity of current (working) frame
[D] frame create Create a new frame
[D] frame prefix The frame prefix command
[D] frame pwf Display name of current (working) frame
[D] frame rename Rename existing frame
[D] frames dir Display names of all frames in memory
[D] icd Introduction to ICD commands
[D] icd10 ICD-10 diagnosis codes
[D] icd10cm ICD-10-CM diagnosis codes
[D] icd10pcs ICD-10-PCS procedure codes
[D] icd9 ICD-9-CM diagnosis codes
[D] icd9p ICD-9-CM procedure codes
[D] ipolate Linearly interpolate (extrapolate) values
[D] range Generate numerical range
[D] sample Draw random sample
[D] splitsample Split data into random sample

Multiple datasets in memory
[D] fralias Alias variables from linked frames
[D] frame change Change identity of current (working) frame
[D] frame copy Make a copy of a frame
[D] frame create Create a new frame
[D] frame drop Drop frames from memory
[D] frame prefix The frame prefix command
[D] frame put Copy selected variables or observations to a new frame
[D] frame pwf Display name of current (working) frame
Multiple imputation

mi add .................................................. Add imputations from another mi dataset
mi append .................................................. Append mi data
mi convert .................................................. Change style of mi data
mi copy .................................................. Copy mi flongsep data
mi describe .................................................. Describe mi data
mi erase .................................................. Erase mi datasets
mi expand .................................................. Expand mi data
mi export .................................................. Export mi data
mi export ice .................................................. Export mi data to ice format
mi export nhanes1 ........................................ Export mi data to NHANES format
mi extract .................................................. Extract original or imputed data from mi data
mi import .................................................. Import data into mi
mi import flong .................................................. Import flong-like data into mi
mi import flongsep ........................................ Import flongsep-like data into mi
mi import ice .................................................. Import ice-format data into mi
mi import nhanes1 ........................................ Import NHANES-format data into mi
mi import wide .................................................. Import wide-like data into mi
mi merge .................................................. Merge mi data
mi misstable .................................................. Tabulate pattern of missing values
mi passive .................................................. Generate/replace and register passive variables
mi ptrace .................................................. Load parameter-trace file into Stata
mi rename .................................................. Rename variable
mi replace0 .................................................. Replace original data
mi reset .................................................. Reset imputed or passive variables
mi reshape .................................................. Reshape mi data
mi set .................................................. Declare multiple-imputation data
mi stsplit .................................................. Split and join time-span records for mi data
mi update .................................................. Ensure that mi data are consistent
mi varying .................................................. Identify variables that vary across imputations
mi xeq .................................................. Execute command(s) on individual imputations
mi XXXset .................................................. Declare mi data to be svy, st, ts, xt, etc.
noupdate option .................................................. The noupdate option
Styles .................................................. Dataset styles
Workflow .................................................. Suggested workflow
## Utilities

### Basic utilities

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

### Error messages

| U | Chapter 8 | Error messages and return codes |
| P | error | Display generic error message and exit |
| R | Error messages | Error messages and return codes |
| P | rmsg | 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 | creturn | Return c-class values |
| P | ereturn | Post the estimation results |
| 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 selected | Show selected coefficients |
| 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 |
Internet

[U] Chapter 29 ................................. Using the Internet to keep up to date
[R] ado update ............................... Update community-contributed packages
[D] checksum ................................. Calculate checksum of file
[D] copy ............................... Copy file from disk or URL
[R] net ............................... Install and manage community-contributed additions from the Internet
[R] net search ............................... Search the Internet for installable packages
[R] netio ............................... Control Internet connections
[R] sj ............................... Stata Journal installation instructions
[R] ssc ............................... Install and uninstall packages from SSC
[R] update ............................... Check for official updates
[D] use ............................... 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 24 ............................... Working with strings
[D] compress ............................... Compress data in memory
[D] Data types ............................... Quick reference for data types
[D] memory ............................... Memory management
[D] Missing values .......................... Quick reference for missing values
[D] recast ............................... Change storage type of variable

Advanced utilities

[D] assert ............................... Verify truth of claim
[D] assertnested .......................... Verify variables nested
[D] cd ............................... Change directory
[D] changeeol ............................. Convert end-of-line characters of text file
[D] checksum ............................... Calculate checksum of file
[D] copy ............................... Copy file from disk or URL
[P] _datasignature .......................... Determine whether data have changed
[D] datasignature .......................... Determine whether data have changed
[R] db ............................... Launch dialog
[P] Dialog programming .......................... Dialog programming
[D] dir ............................... Display filenames
[P] discard ............................... Drop automatically loaded programs
[D] erase ............................... Erase a disk file
[P] file ............................... Read and write text and binary files
[D] filefilter ............................... Convert ASCII or binary patterns in a file
[D] hexdump ............................... Display hexadecimal report on file
[D] mkdir ............................... Create directory
[R] more ............................... The —more— message
[R] query ............................... Display system parameters
[P] quietly ............................... Quietly and noisily perform Stata command
Graphics

Bayesian analysis graphs

[BAYES] bayesfcast graph .......................... Graphs of Bayesian dynamic forecasts
[BAYES] bayesgraph .............................. Graphical summaries and convergence diagnostics
[BAYES] bayesirf cgraph ......................... Combined graphs of Bayesian IRF results
[BAYES] bayesirf graph .......................... Graphs of Bayesian IRFs, dynamic-multiplier functions, and FEVDs
[BAYES] bayesirf ograph ......................... Overlaid graphs of Bayesian IRF results

Bayesian model averaging graphs

[BMA] bmagraph .................................... Graphical summary for models and predictors after BMA regression
[BMA] bmagraph coefdensity .................. Regression coefficient density plots after BMA regression
[BMA] bmagraph msize ......................... Model-size distribution plots after BMA regression
[BMA] bmagraph pmp ........................... Model-probability plots after BMA regression
[BMA] bmagraph varmap ....................... Variable-inclusion map after BMA regression

Common graphs

[G-1] Graph intro .................................... Introduction to graphics
[G-2] graph ........................................... The graph command
Combined subject table of contents

- `graph bar` ................................................................. Bar charts
- `graph box` ............................................................... Box plots
- `graph close` .............................................................. Close Graph windows
- `graph combine` ......................................................... Combine multiple graphs
- `graph copy` ............................................................. Copy graph in memory
- `graph describe` ........................................................ Describe contents of graph in memory or on disk
- `graph dir` ................................................................. List names of graphs in memory and on disk
- `graph display` .......................................................... Display graph stored in memory
- `graph dot` ................................................................. Dot charts (summary statistics)
- `graph drop` .............................................................. Drop graphs from memory
- `graph export` ............................................................ Export current graph
- `graph manipulation` .................................................. Graph manipulation commands
- `graph matrix` ........................................................... Matrix graphs
- `graph other` ............................................................. Other graphics commands
- `graph pie` ................................................................. Pie charts
- `graph play` ............................................................... Apply edits from a recording on current graph
- `graph print` ............................................................. Print a graph
- `graph query` ............................................................. List available schemes and styles
- `graph rename` ........................................................... Rename graph in memory
- `graph replay` ............................................................ Replay multiple graphs
- `graph save` ............................................................... Save graph to disk
- `graph set` ................................................................. Set graphics options
- `graph twoway` ........................................................... Twoway graphs
- `graph twoway area` .................................................... Twoway line plot with area shading
- `graph twoway bar` ...................................................... Twoway bar plots
- `graph twoway connected` ........................................... Twoway connected plots
- `graph twoway contour` ................................................ Twoway contour plot with area shading
- `graph twoway contourline` .......................................... Twoway contour-line plot
- `graph twoway dot` ....................................................... Twoway dot plots
- `graph twoway dropline` ............................................... Twoway dropped-line plots
- `graph twoway fpfit` ..................................................... Twoway fractional-polynomial prediction plots
- `graph twoway fpfitci` .................................................. Twoway fractional-polynomial prediction plots with CIs
- `graph twoway function` ............................................... Twoway line plot of function
- `graph twoway histogram` ............................................. Histogram plots
- `graph twoway kdensity` ................................................ Kernel density plots
- `graph twoway lifit` ...................................................... Twoway linear prediction plots
- `graph twoway lifitci` ................................................... Twoway linear prediction plots with CIs
- `graph twoway line` ...................................................... Twoway line plots
- `graph twoway lowess` ................................................ Local linear smooth plots
- `graph twoway lpoly` .................................................... Local polynomial smooth plots
- `graph twoway lpolyci` ................................................ Local polynomial smooth plots with CIs
- `graph twoway mband` ................................................ Local polynomial median-band plots
- `graph twoway mspline` ............................................... Local polynomial median-spline plots
- `graph twoway pcarrow` .............................................. Paired-coordinate plot with arrows
- `graph twoway parrowi` .............................................. Twoway parrow with immediate arguments
- `graph twoway pccapsym` ............................................ Paired-coordinate plot with spikes and marker symbols
- `graph twoway pci` ....................................................... Twoway paired-coordinate plot with immediate arguments
- `graph twoway pcspike` ............................................... Paired-coordinate plot with spikes
- `graph twoway pcscatter` ............................................. Paired-coordinate plot with markers
- `graph twoway qfit` ...................................................... Twoway quadratic prediction plots
- `graph twoway qfitci` .................................................. Twoway quadratic prediction plots with CIs
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[255x614] [G-2] graph twoway rbar ........................................ Range plot with bars
[255x614] [G-2] graph twoway rcap ....................................... Range plot with capped spikes
[255x614] [G-2] graph twoway rcapsym ................................ Range plot with spikes capped with marker symbols
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[255x614] [G-2] graph twoway spike ..................................... Two way line plots
[255x614] [G-2] graph use ................................................. Display graph stored on disk
[255x614] [R] histogram .............................................. Histograms for continuous and categorical variables
[255x614] [R] marginsplot ............................................ Graph results from margins (profile plots, etc.)
[255x614] [G-2] palette ................................................ Display palettes of available selections

**Distributional graphs**

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[255x614] [R] Diagnostic plots ......................................... Distributional diagnostic plots
[255x614] [R] dotplot ...................................................... Comparative distribution dotplots
[255x614] [R] histogram .............................................. Histograms for continuous and categorical variables
[255x614] [R] ladder ...................................................... Ladder of powers
[255x614] [R] spikeplot ................................................ Spike plots and rootograms
[255x614] [R] sunflower ................................................. Density-distribution sunflower plots

**Item response theory graphs**

[255x614] [MV] biplot .................................................. Biplots
[255x614] [IRT] irtgraph icc ......................................... Item characteristic curve plot
[255x614] [IRT] irtgraph iif ......................................... Item information function plot
[255x614] [IRT] irtgraph tcc ......................................... Test characteristic curve plot
[255x614] [IRT] irtgraph tif ......................................... Test information function plot

**Lasso graphs**

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[LASSO] coefpath .............................................. Plot path of coefficients after lasso
[LASSO] cvplot ............................................... Plot cross-validation function after lasso

**Meta-analysis graphs**

[META] estat bubbleplot ...................................... Bubble plots after meta regress
[META] meta forestplot ....................................... Forest plots
[META] meta funnelplot ..................................... Funnel plots
[META] meta galbraithplot ................................... Galbraith plots
[META] meta labbeplot ....................................... L’Abbé plots

**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
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<td>Plot the survivor or related function after streg, stcox, and more</td>
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Time-series graphs

[TS] corrgram .................................. Tabulate and graph autocorrelations
[TS] cump . .................................... Graph cumulative spectral distribution
[TS] estat acplot ......................... Plot parametric autocorrelation and autocovariance functions
[TS] estat aroots .......................... Check the stability condition of ARIMA estimates
[TS] estat sbcusum ....................... Cumulative sum test for parameter stability
[TS] fcast graph ........................ Graph forecasts after fcast compute
[TS] irf cgraph ........................... Combined graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS] irf graph ............................. Graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS] irf ograph ........................... Overlaid graphs of IRFs, dynamic-multiplier functions, and FEVDs
[TS] pergram .................................. Periodogram
[TS] tsline .................................. Time-series line plots
[TS] varstable ............................ Check the stability condition of VAR or SVAR estimates
[TS] vecstable ............................ Check the stability condition of VEC model estimates
[TS] wntestb ............................. Bartlett’s periodogram-based test for white noise

[TS] xcorr .................................. Cross-correlogram for bivariate time series

More statistical graphs

[R] Epitab .................................. Tables for epidemiologists
[R] fp postestimation ....................... Postestimation tools for fp
[R] grmeanby ................................ Graph means and medians by categorical variables
[R] pkexamine ............................. Calculate pharmacokinetic measures
[R] pksumm .................................. Summarize pharmacokinetic data
[R] stem .................................. Stem-and-leaf displays
[CAUSAL] tebalance box ..................... Covariate balance box
[CAUSAL] teoverlap ........................ Overlap plots
[XT] xtline .................................. Panel-data line plots

Editing

[G-1] Graph Editor ........................ Graph Editor

Graph concepts

[G-4] Concept: lines ........................ Using lines
[G-4] Concept: repeated options ............ Interpretation of repeated options
[G-4] text .................................. Text in graphs

Graph schemes

[G-4] Schemes intro ........................ Introduction to schemes
[G-4] Scheme economist ..................... Scheme description: economist
[G-4] Scheme s1 ................................ Scheme description: s1 family
[G-4] Scheme s2 ................................ Scheme description: s2 family
[G-4] Scheme sj ................................ Scheme description: sj
[G-4] Scheme st ................................ Scheme description: st family

Graph utilities

[G-2] set graphics .......................... Set whether graphs are displayed
[G-2] set printcolor ......................... Set how colors are treated when graphs are printed
[G-2] set scheme ............................ Set default scheme
Statistics

**ANOVA and related**

[U] Chapter 27 ............................ Overview of Stata estimation commands
[R] anova ........................................ Analysis of variance and covariance
[R] contrast .................................. Contrasts and linear hypothesis tests after estimation
[R] icc ....................................... Intraclass correlation coefficients
[R] loneway .................................. Large one-way ANOVA, random effects, and reliability
[MV] manova .................................. Multivariate analysis of variance and covariance
[ME] meglm .................................. Multilevel mixed-effects generalized linear models
[ME] mixed .................................... Multilevel mixed-effects linear regression
[R] oneway .................................... One-way analysis of variance
[R] pkcross .................................. Analyze crossover experiments
[R] pkshape .................................. Reshape (pharmacokinetic) Latin-square data
[R] pwcompare ................................ Pairwise comparisons
[R] regress ...................................... Linear regression
[XT] xtreg  . Fixed-, between-, and random-effects and population-averaged linear models+

**Basic statistics**

[R] anova ........................................ Analysis of variance and covariance
[R] bitest ....................................... Binomial probability test
[R] ci ......................................... Confidence intervals for means, proportions, and variances
[R] correlate .................................. Correlations of variables
[D] egen ....................................... Extensions to generate
[R] esize ..................................... Effect size based on mean comparison
[R] icc ....................................... Intraclass correlation coefficients
[R] mean ....................................... Estimate means
[R] misstable .................................. Tabulate missing values
[MV] mvtest .................................... Multivariate tests
[R] oneway .................................... One-way analysis of variance
[R] proportion ................................ Estimate proportions
[R] prtest ..................................... Tests of proportions
[R] pwmean ................................... Pairwise comparisons of means
[R] ranksum .................................. Equality tests on unmatched data
[R] ratio ....................................... Estimate ratios
[R] regress ...................................... Linear regression
[R] sctest .................................... Variance-comparison tests
[R] signrank .................................. Equality tests on matched data
[D] statsby .................................... Collect statistics for a command across a by list
[R] summarize ................................ Summary statistics
[R] table intro ............................. Introduction to tables of frequencies, summaries, and command results
[R] table ....................................... Table of frequencies, summaries, and command results
[R] table hypothesis tests .................... Table of hypothesis tests
[R] table multiway ................................ Multiway tables
[R] table oneway ................................ One-way tabulation
[R] table summary ................................ Table of summary statistics
[R] table twoway ................................ Two-way 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
Bayesian analysis

Section 27.34: Bayesian analysis

- Bayesian commands
- Bayesian estimation
- Bayesian postestimation
- bayes
- bayes: betareg
- bayes: binreg
- bayes: biprobit
- bayes: clogit
- bayes: cloglog
- bayes: dsge
- bayes: fracreg
- bayes: glm
- bayes: gnbreg
- bayes: heckman
- bayes: heckprobit
- bayes: hetregress
- bayes: intreg
- bayes: logistic
- bayes: logit
- bayes: mecloglog
- bayes: megln
- bayes: meintreg
- bayes: melogit
- bayes: menbreg
- bayes: meologit
- bayes: meprobit
- bayes: mepoisson
- bayes: mestreg
- bayes: metobit
- bayes: meprobit
- bayes: mixed
- bayes: mlogit
- bayes: mpobit
- bayes: mvreg
- bayes: nbreg
- bayes: ologit
- bayes: oprobit
- bayes: poisson
- bayes: probit
Bayesian model averaging

Section 27.35 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Bayesian model averaging

Intro . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Introduction to Bayesian model averaging

BMA commands . . . . . . . . . Introduction to commands for Bayesian model averaging
Binary outcomes

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<td>xtpoisson</td>
<td>Fixed-effects, random-effects, and population-averaged Poisson models</td>
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<td>Fixed-effects, random-effects, &amp; population-averaged negative binomial models</td>
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[CAUSAL] etpoisson ............................................................. Poisson regression with endogenous treatment effects
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- **ERM**  ERM options .................................................. Extended regression model options
- **ERM**  Intro ................................................................. Introduction to extended regression models manual
- **ERM**  Intro 1 ......................................................... An introduction to the ERM commands
- **ERM**  Intro 2 .............................................................. The models that ERMs fit
- **ERM**  Intro 3 .......................................................... Endogenous covariates features
- **ERM**  Intro 4 .......................................................... Endogenous sample-selection features
- **ERM**  Intro 5 ........................................................... Treatment assignment features
- **ERM**  Intro 6 .......................................................... Panel data and grouped data model features
- **ERM**  Intro 7 .......................................................... Model interpretation
- **ERM**  Intro 8 ........................................................ A Rosetta stone for extended regression commands
- **ERM**  Intro 9 ........................................................ Conceptual introduction via worked example
- **ERM**  eintreg ............................................................ Extended interval regression
- **ERM**  eintreg postestimation ..................................... Postestimation tools for eintreg and xteintreg
- **ERM**  eintreg predict ................................................. predict after eintreg and xteintreg
- **ERM**  eoprobit .......................................................... Extended ordered probit regression
- **ERM**  eoprobit postestimation ..................................... Postestimation tools for eoprobit and xteoprobit
- **ERM**  eoprobit predict ................................................ predict after eoprobit and xteoprobit
- **ERM**  eprobit .......................................................... Extended probit regression
- **ERM**  eprobit postestimation ..................................... Postestimation tools for eprobit and xteoprobit
- **ERM**  eprobit predict ................................................ predict after eprobit and xteoprobit
- **ERM**  eregress .......................................................... Extended linear regression
Finite mixture models

Section 27.27

Display exponentiated coefficients

Latent class marginal coefficients

Latent class marginal probabilities

Mixture of linear regression models

Covariates for class membership

Component-specific covariates

Mixture of Poisson regression models

Zero-inflated models

Mixture cure models for survival data

Factor analysis and principal components

Compute interitem correlations (covariances) and Cronbach’s alpha

Canonical correlations

Factor analysis

Principal component analysis

Orthogonal and oblique rotations after factor and pca

Orthogonal and oblique rotations of a Stata matrix

Score and loading plots

Scree plot of eigenvalues

Tetrachoric correlations for binary variables

Tetrachoric correlations for binary variables

How to triangularize a system of equations

Extended random-effects interval regression

Extended random-effects ordered probit regression

Extended random-effects probit regression

Extended random-effects linear regression

Postestimation tools for eregress and xteregress

predict after eregress and xteregress

Average treatment effects for extended regression models

Interval regression with continuous endogenous covariate

Probit regression with continuous endogenous covariate

Probit regression with endogenous covariate and treatment

Probit regression with endogenous sample selection

Probit regression with endogenous treatment and sample selection

Probit regression with endogenous ordinal treatment

Ordered probit regression with endogenous treatment

Random-effects regression with continuous endogenous covariate

Random effects in one equation and endogenous covariate

Ordered effects, endogenous covariate, and endogenous sample selection

Ordered probit regression with endogenous treatment and random effects

predict’s advanced features

predict for treatment statistics

How to triangularize a system of equations

Extended random-effects interval regression

Extended random-effects ordered probit regression

Extended random-effects probit regression

Extended random-effects linear regression

Factor analysis

Canonical correlations

Factor analysis

Principal component analysis

Orthogonal and oblique rotations after factor and pca

Orthogonal and oblique rotations of a Stata matrix

Score and loading plots

Scree plot of eigenvalues

Tetrachoric correlations for binary variables

Tetrachoric correlations for binary variables
## Fractional outcomes

- **[BAYES]** bayes: betareg ........................... Bayesian beta regression
- **[BAYES]** bayes: fracreg ........................... Bayesian fractional response regression
- **[R]** betareg ........................................ Beta regression
- **[CAUSAL]** eteffects .................................. Endogenous treatment-effects estimation
- **[FMM]** fmm: betareg .............................. Finite mixtures of beta regression models
- **[R]** ivfprobit ...................................... Fractional probit model with continuous endogenous covariates
- **[CAUSAL]** teffects ipw ............................. Inverse-probability weighting
- **[CAUSAL]** teffects nnmatch ....................... Nearest-neighbor matching
- **[CAUSAL]** teffects psmatch ....................... Propensity-score matching

## Generalized linear models

- **[U]** Chapter 20 ................................. Estimation and postestimation commands
- **[U]** Section 27.9 ............................... Generalized linear models
- **[BAYES]** bayes: glm ............................ Bayesian generalized linear models
- **[R]** binreg ......................................... Generalized linear models: Extensions to the binomial family
- **[FMM]** fmm: glm ................................. Finite mixtures of generalized linear regression models
- **[R]** fracreg ........................................ Fractional response regression
- **[R]** glm ............................................. Generalized linear models
- **[XT]** xtgee ........................................ GEE population-averaged panel-data models

## Group sequential designs

- **[U]** Section 27.33 ............................. Power, precision, and sample-size analysis
- **[ADAPT]** GSD intro .............................. Introduction to group sequential designs
- **[ADAPT]** Intro ..................................... Introduction to adaptive designs for clinical trials
- **[ADAPT]** gs ........................................ Introduction to commands for group sequential design
- **[ADAPT]** gsbounds ............................... Boundaries for group sequential trials
Indicator and categorical variables

[ADAPT] Section 11.4.3 Working with categorical data and factor variables
[ADAPT] Chapter 26 Working with categorical data and factor variables

Item response theory

[U] Section 27.28 Item response theory (IRT)
[IRT] Control Panel IRT Control Panel
[IRT] DIF Introduction to differential item functioning
[IRT] diflogistic Logistic regression DIF
[IRT] difmh Mantel–Haenszel DIF
[IRT] estat greport Report estimated group IRT parameters
[IRT] estat report Report estimated IRT parameters
[IRT] irt 1pl One-parameter logistic model
[IRT] irt 2pl Two-parameter logistic model
[IRT] irt 3pl Three-parameter logistic model
[IRT] irt constraints Specifying constraints
[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
[IRT] irt, group( ) IRT models for multiple groups
[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

Lasso

[U] Section 27.30 Lasso
[LASSO] Collinear covariates Treatment of collinear covariates
[LASSO] Inference examples Examples and workflow for inference
[LASSO] Inference requirements Requirements for inference
[LASSO] Lasso inference intro Introduction to inferential lasso models
[LASSO] Lasso intro Introduction to lasso
[LASSO] bicplot Plot Bayesian information criterion function after lasso
[LASSO] coefpath Plot path of coefficients after lasso
[LASSO] cvplot Plot cross-validation function after lasso
[LASSO] dslogit Double-selection lasso logistic regression
[LASSO] dspoisson Double-selection lasso Poisson regression
[LASSO] dsregress Double-selection lasso linear regression
[LASSO] elasticnet Elastic net for prediction and model selection
[LASSO] estimates store Saving and restoring estimates in memory and on disk
[LASSO] lasso ................................. Lasso for prediction and model selection
[LASSO] lasso examples ....................... Examples of lasso for prediction
[LASSO] lasso fitting .......................... The process (in a nutshell) of fitting lasso models
[LASSO] lasso inference postestimation .... Postestimation tools for lasso inferential models
[LASSO] lasso options ........................ Lasso options for inferential models
[LASSO] lasso postestimation ................. Postestimation tools for lasso for prediction
[LASSO] lassocoef .......................... Display coefficients after lasso estimation results
[LASSO] lassogof .......................... Goodness of fit after lasso for prediction
[LASSO] lassoinfo ........................... Display information about lasso estimation results
[LASSO] lassoknots .......................... Display knot table after lasso estimation
[LASSO] lassoselect .......................... Select lambda after lasso
[LASSO] poivregress ........................ Partialing-out lasso instrumental-variables regression
[LASSO] pologit ........................ Partialing-out lasso logistic regression
[LASSO] popoisson ........................ Partialing-out lasso Poisson regression
[LASSO] poregress ........................ Partialing-out lasso linear regression
[LASSO] sqrtlasso ........................ Square-root lasso for prediction and model selection
[LASSO] xpoivregress ........................ Cross-fit partialing-out lasso instrumental-variables regression
[LASSO] xpologit ........................ Cross-fit partialing-out lasso logistic regression
[LASSO] xpopoisson ........................ Cross-fit partialing-out lasso Poisson regression
[LASSO] xpopoisson ........................ Cross-fit partialing-out lasso linear regression

Latent class models

[U] ................................. Latent class models
[SEM] estat lcmean ..................... Latent class marginal means
[SEM] estat lcprob ...................... Latent class marginal probabilities
[SEM] Example 50g ..................... Latent class model
[SEM] Example 52g ..................... Latent profile model
[SEM] Example 53g ..................... Finite mixture Poisson regression
[SEM] Intro 2 ........................ Learning the language: Path diagrams and command language
[SEM] Intro 5 ........................ Tour of models

Linear regression and related

[U] ................................. Estimation and postestimation commands
[U] Chapter 20 ........................ Overview of Stata estimation commands
[R] areg ........................ Linear regression with many indicator variables+
[BAYES] Bayesian estimation ................ Bayesian estimation commands
[BMA] bmaregess ........................ Bayesian model averaging for linear regression
[R] cnsreg ........................ Constrained linear regression
[R] constraint ..................... Define and list constraints
[CAUSAL] didregress ..................... Difference-in-differences estimation
[LASSO] dsregress ..................... Double-selection lasso linear regression
[R] eivreg ........................ Errors-in-variables regression
[ERM] eregress ........................ Extended linear regression
[CAUSAL] etpoisson ..................... Poisson regression with endogenous treatment effects
[CAUSAL] etregress ..................... Linear regression with endogenous treatment effects
[FMM] fmm estimation ................ Fitting finite mixture models
[R] fp ........................ Fractional polynomial models
[R] frontier ...................... Stochastic frontier models
[R] glm ........................ Generalized linear models
[CAUSAL] hdidregress ................. Heterogeneous difference in differences
[R] heckman ........................ Heckman selection model
Logistic and probit regression

[U] Chapter 20 ............................................. Estimation and postestimation commands
[CM] Chapter 27 ........................................ Overview of Stata estimation commands
[CM] biprobit ................................................ Bivariate probit regression
[CM] clogit ................................................. Conditional (fixed-effects) logistic regression
[CM] cloglog .............................................. Complementary log–log regression
[CM] cmclogit ............................................. Conditional logit (McFadden’s) choice model
[CM] cmmixlogit ........................................ Mixed logit choice model
[CM] cmmprobirt ......................................... Multinomial probit choice model
[CM] cmroprobit ......................................... Rank-ordered logit choice model
[CM] cmroprobit ......................................... Panel-data mixed logit choice model
[LASSO] dsllogit ........................................ Double-selection lasso logistic regression
[CM] eoprobit .............................................. Extended ordered probit regression
[CM] eprobit .............................................. Extended probit regression
[CM] exlogistic ........................................... Exact logistic regression
[ME] heckoprobit ......................................... Probit model with sample selection
[ME] heckprobit ......................................... Probit model with sample selection
[CM] hetoprobit ......................................... Heteroskedastic ordered probit regression
[CM] hetoprobit ......................................... Heteroskedastic probit model
[CM] iirt 1pl .............................................. One-parameter logistic model
[CM] iirt 2pl .............................................. Two-parameter logistic model
[CM] iirt 3pl .............................................. Three-parameter logistic model
[CM] iirt grm .............................................. Graded response model
[CM] iirt hybrid ......................................... Hybrid IRT models
[CM] iirt nrm ............................................. Nominal response model
[CM] iirt pcm ............................................ Partial credit model
[CM] iirt rsm ............................................. Rating scale model
[CM] ivfprobit ......................................... Fractional probit model with continuous endogenous covariates
[CM] ivprobit ........................................... Probit model with continuous endogenous covariates
[CM] logistic .............................................. Logistic regression, reporting odds ratios
[CM] logit ................................................. Logistic regression, reporting coefficients
[CM] melogit ............................................. Multilevel mixed-effects logistic regression
[CM] meologit ........................................... Multilevel mixed-effects ordered logistic regression
[CM] meoprobirt .......................................... Multilevel mixed-effects ordered probit regression
[CM] meprobit ............................................ Multilevel mixed-effects probit regression
[CM] mlogit .............................................. Multinomial (polytomous) logistic regression
[CM] mprobit ............................................ Multinomial probit regression
[CM] nlogit .............................................. Nested logit regression
[CM] ologit .............................................. Ordered logistic regression
[CM] oprobit ............................................ Ordered probit regression
[LASSO] pologit ......................................... Partialing-out lasso logistic regression
[CM] probit .............................................. Probit regression
[CM] scobit .............................................. Skewed logistic regression
[CM] slogit .............................................. Stereotype logistic regression
[LASSO] xpologit ......................................... Cross-fit partialing-out lasso logistic regression
[XT] xtcloglog ........................................ Random-effects and population-averaged cloglog models
[XT] xteprobit ......................................... Extended random-effects ordered probit regression
[XT] xteprobit ......................................... Extended random-effects probit regression
[XT] xtgee ............................................. GEE population-averaged panel-data models
[XT] xtlogit ........................................ Fixed-effects, random-effects, and population-averaged logit models
Longitudinal data/panel data

- Chapter 20: Estimation and postestimation commands
- Section 27.15: Panel-data models
- didregress: Difference-in-differences estimation
- eintreg: Extended interval regression
- eprobit: Extended ordered probit regression
- eregress: Extended linear regression
- hdidregress: Heterogeneous difference in differences
- meologit: Multilevel mixed-effects ordered logistic regression
- meprobit: Multilevel mixed-effects probit regression
- mepoisson: Multilevel mixed-effects Poisson regression
- mixed: Multilevel mixed-effects linear regression
- xtquadchk: Check sensitivity of quadrature approximation
- xtabond: Arellano–Bond linear dynamic panel-data estimation
- xtcloglog: Random-effects and population-averaged cloglog models
- xtcointtest: Panel-data cointegration tests
- xtdescribe: Describe pattern of xt data
- xtdidregress: Fixed-effects difference-in-differences estimation
- xtdpd: Linear dynamic panel-data estimation
- xtdpdsys: Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation
- xteintreg: Extended random-effects interval regression
- xteprobit: Extended random-effects ordered probit regression
- xteprobit: Extended random-effects probit regression
- xteregress: Extended random-effects linear regression
- xtf: Stochastic frontier models for panel data
- xtgls: GEE population-averaged panel-data models
- xthdidregress: Heterogeneous difference in differences for panel data
- xtheckman: Random-effects regression with sample selection
- xthtaylor: Hausman–Taylor estimator for error-components models
- xtinreg: Random-effects interval-data regression models
- xtivreg: Instrumental variables and two-stage least squares for panel-data models
- xtline: Panel-data line plots
- xtlogit: Fixed-effects, random-effects, and population-averaged logit models
- xtmlogit: Fixed-effects and random-effects multinomial logit models
- xtmnbreg: Fixed-effects, random-effects, & population-averaged negative binomial models
- xtologit: Random-effects ordered logistic models
- xtprobit: Random-effects ordered probit models
- xtpcse: Linear regression with panel-corrected standard errors
- xtpoisson: Fixed-effects, random-effects, and population-averaged Poisson models
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>xtprobit</code></td>
<td>Random-effects and population-averaged probit models</td>
</tr>
<tr>
<td><code>xtrc</code></td>
<td>Random-coefficients model</td>
</tr>
<tr>
<td><code>xtreg</code></td>
<td>Fixed-, between-, and random-effects and population-averaged linear models+</td>
</tr>
<tr>
<td><code>xtregar</code></td>
<td>Fixed- and random-effects linear models with an AR(1) disturbance</td>
</tr>
<tr>
<td><code>xtset</code></td>
<td>Declare data to be panel data</td>
</tr>
<tr>
<td><code>xtnreg</code></td>
<td>Random-effects parametric survival models</td>
</tr>
<tr>
<td><code>xtsum</code></td>
<td>Summarize xt data</td>
</tr>
<tr>
<td><code>xttab</code></td>
<td>Tabulate xt data</td>
</tr>
<tr>
<td><code>xttobit</code></td>
<td>Random-effects tobit models</td>
</tr>
<tr>
<td><code>xtunitroot</code></td>
<td>Panel-data unit-root tests</td>
</tr>
</tbody>
</table>

### Meta-analysis

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
</table>
| `meta` | Introduction to meta-

### Mixed models

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>anova</code></td>
<td>Analysis of variance and covariance</td>
</tr>
<tr>
<td><code>estat df</code></td>
<td>Calculate degrees of freedom for fixed effects</td>
</tr>
<tr>
<td><code>estat group</code></td>
<td>Summarize the composition of the nested groups</td>
</tr>
<tr>
<td><code>estat icc</code></td>
<td>Estimate intraclass correlations</td>
</tr>
<tr>
<td><code>estat recovariance</code></td>
<td>Display estimated random-effects covariance matrices</td>
</tr>
<tr>
<td><code>estat sd</code></td>
<td>Display variance components as standard deviations and correlations</td>
</tr>
<tr>
<td><code>estat recovariance</code></td>
<td>Display estimated random-effects covariance matrices</td>
</tr>
<tr>
<td><code>estat heterogeneity (me)</code></td>
<td>Compute multilevel heterogeneity statistics</td>
</tr>
<tr>
<td><code>estat heterogeneity (mv)</code></td>
<td>Compute multivariate heterogeneity statistics</td>
</tr>
<tr>
<td><code>estat group</code></td>
<td>Summarize the composition of the nested groups</td>
</tr>
<tr>
<td><code>estat bubbleplot</code></td>
<td>Bubble plots after meta regres</td>
</tr>
<tr>
<td><code>estat forestplot</code></td>
<td>Forest plots</td>
</tr>
<tr>
<td><code>estat funnelplot</code></td>
<td>Funnel plots</td>
</tr>
<tr>
<td><code>estat labeplot</code></td>
<td>L’Abbé plots</td>
</tr>
<tr>
<td><code>estat meregress</code></td>
<td>Multilevel mixed-effects meta-regression</td>
</tr>
<tr>
<td><code>estat multilevel</code></td>
<td>Multilevel random-intercepts meta-regression</td>
</tr>
<tr>
<td><code>estat mvregress</code></td>
<td>Multivariate meta-regression</td>
</tr>
<tr>
<td><code>estat regres</code></td>
<td>Meta-analysis regression</td>
</tr>
<tr>
<td><code>estat set</code></td>
<td>Declare meta-analysis data using generic effect sizes</td>
</tr>
<tr>
<td><code>estat summarize</code></td>
<td>Summarize meta-analysis data+</td>
</tr>
<tr>
<td><code>estat trimfill</code></td>
<td>Nonparametric trim-and-fill analysis of publication bias</td>
</tr>
<tr>
<td><code>estat update</code></td>
<td>Update, describe, and clear meta-analysis settings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>me</code></td>
<td>Introduction to multilevel mixed-effects models</td>
</tr>
<tr>
<td><code>meclologlog</code></td>
<td>Multilevel mixed-effects complementary log–log regression</td>
</tr>
</tbody>
</table>
### Multidimensional scaling and biplots

| MV | biplot | Multidimensional scaling and biplots |
| MV | mds | Multidimensional scaling for two-way data |
| MV | mdslong | Multidimensional scaling of proximity data in long format |
| MV | mdsmat | Multidimensional scaling of proximity data in a matrix |
| MV | measure_option | Option for similarity and dissimilarity measures |

### Multilevel mixed-effects models

| U | Section 27.16 | Multilevel mixed-effects models |
| BAYES | Bayesian estimation | Bayesian estimation commands |
| ME | me | Introduction to multilevel mixed-effects models |
| ME | mecllog | Multilevel mixed-effects complementary log–log regression |
| ME | meglm | Multilevel mixed-effects generalized linear models |
| ME | meintreg | Multilevel mixed-effects interval regression |
| ME | melogit | Multilevel mixed-effects logistic regression |
| ME | menl | Nonlinear mixed-effects 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 |
| MET | mestreg | Multilevel mixed-effects parametric survival models |
| META | meta meregress | Multilevel mixed-effects meta-regression |
| META | meta multilevel | Multilevel random-intercepts meta-regression |
| ME | metobit | Multilevel mixed-effects tobit regression |
| XT | xtcllog | Random-effects and population-averaged cloglog models |
| XT | xtintreg | Random-effects interval-data regression models |
| XT | xtlogit | Fixed-effects, random-effects, and population-averaged logit models |
| XT | xtoprob | Random-effects ordered logistic models |
| XT | xtoprobit | Random-effects ordered probit models |
| XT | xtprob | Random-effects and population-averaged probit models |
| XT | xtc | Random-coefficients model |
| XT | xreg | Fixed-, between-, and random-effects and population-averaged linear models |
| XT | xttobit | Random-effects tobit models |
## Multiple imputation

- **Section 27.32** Multiple imputation
  - **Intro** Section 27.33 Introduction to multiple-imputation analysis
  - **Estimation** Section 27.34 Estimation commands for use with `mi estimate`
  - **mi estimate** Section 27.35 Estimation using multiple imputations
  - **mi estimate using** Section 27.36 Estimation using previously saved estimation results
  - **mi estimate postestimation** Section 27.37 Postestimation tools for `mi estimate`
  - **mi impute** Section 27.38 Impute missing values
  - **mi impute chained** Section 27.39 Impute missing values using chained equations
  - **mi impute intreg** Section 27.40 Impute using interval regression
  - **mi impute logit** Section 27.41 Impute using logistic regression
  - **mi impute mlogit** Section 27.42 Impute using multinomial logistic regression
  - **mi impute monotone** Section 27.43 Impute missing values in monotone data
  - **mi impute mlogit** Section 27.44 Impute using multivariate normal regression
  - **mi impute nbreg** Section 27.45 Impute using negative binomial regression
  - **mi impute ologit** Section 27.46 Impute using ordered logistic regression
  - **mi impute pmr** Section 27.47 Impute using predictive mean matching
  - **mi impute poisson** Section 27.48 Impute using Poisson regression
  - **mi impute regress** Section 27.49 Impute using linear regression
  - **mi impute truncreg** Section 27.50 Impute using truncated regression
  - **mi impute usermethod** Section 27.51 User-defined imputation methods
  - **mi predict** Section 27.52 Obtain multiple-imputation predictions
  - **mi test** Section 27.53 Test hypotheses after `mi estimate`

## Multivariate analysis of variance and related techniques

- **Section 27.22** Multivariate analysis
  - **canon** Section 27.23 Canonical correlations
  - **hotelling** Section 27.24 Hotelling’s $T^2$ generalized means test
  - **manova** Section 27.25 Multivariate analysis of variance and covariance
  - **mvreg** Section 27.26 Multivariate regression
  - **mvtest covariances** Section 27.27 Multivariate tests of covariances
  - **mvtest means** Section 27.28 Multivariate tests of means

## Nonlinear regression

- **boxcox** Section 27.31 Box–Cox regression models
- **demandsys** Section 27.32 Estimation of flexible demand systems
- **menl** Section 27.33 Nonlinear mixed-effects regression
- **nl** Section 27.34 Nonlinear least-squares estimation
- **nlsur** Section 27.35 Estimation of nonlinear systems of equations

## Nonparametric statistics

- **bitest** Section 27.36 Binomial probability test
- **bootstrap** Section 27.37 Bootstrap sampling and estimation
- **bsample** Section 27.38 Sampling with replacement
- **bstat** Section 27.39 Report bootstrap results
- **centile** Section 27.40 Report centile and confidence interval
- **cusum** Section 27.41 Cusum plots and tests for binary variables
- **ivqregress** Section 27.42 Instrumental-variables quantile regression
- **kdensity** Section 27.43 Univariate kernel density estimation
Combined subject table of contents 37

Ordinal outcomes

[BAYES] Bayesian estimation
[CM] cmrologit
[CM] cmroprob
[FMM] fmm estimation
[IRT] irt grm
[IRT] irt pcm
[IRT] irt rsm
[ME] meologit
[ME] meoprob
[ME] meologit
[ME] meoprob
[R] ologit
[R] oprobit
[XT] xteoprob
[XT] xtologit
[XT] xtologit
[XT] xtoprob
[R] zilogit
[R] ziprobit

Other statistics

[MV] alpha
[R] ameans
[R] brier

[R] ksmirnov
[R] kwallis
[R] lowess
[R] lpoly
[R] makespline
[R] npregress intro
[R] npregress kernel
[R] npregress series
[R] nptrend
[R] ptest
[R] qreg
[R] ranks
[R] roc
[R] rocomp
[R] rocreg
[R] rocregplot
[R]ranksum
[R]signrank
[R]simulate
[R]smooth
[R]spearman
[R]symmetry
[R]tabulate twoway

Chapter 20

Estimation and postestimation commands

Bayesian estimation commands

Rank-ordered logit choice model
Rank-ordered probit choice model
Extended ordered probit regression
Fitting finite mixture models
Ordered probit model with sample selection
Heteroskedastic ordered probit regression
Graded response model
Partial credit model
Rating scale model
Multilevel mixed-effects ordered logistic regression
Multilevel mixed-effects ordered probit regression
Ordered logistic regression
Ordered probit regression
Extended random-effects ordered probit regression
Random-effects ordered logistic models
Random-effects ordered probit models
Zero-inflated ordered logit regression
Zero-inflated ordered probit regression

Compute interitem correlations (covariances) and Cronbach’s alpha
Arithmetic, geometric, and harmonic means
Brier score decomposition
Combined subject table of contents

[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 27.21 ....................................... 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
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Power, precision, and sample size

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[PSS-3] Intro (ciwidth) ......................... Introduction to precision and sample-size analysis for confidence intervals
[PSS-2] Intro (power) ......................... Introduction to power and sample-size analysis for hypothesis tests
[PSS-3] ciwidth ........................................ Precision and sample-size analysis for CIs
[PSS-3] ciwidth onemean ......................... Precision analysis for a one-mean CI
[PSS-3] ciwidth onevariance ..................... Precision analysis for a one-variance CI
[PSS-3] ciwidth pairedmeans .................... Precision analysis for a paired-means-difference CI
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[PSS-3] ciwidth usermethod ..................... Add your own methods to the ciwidth command
[PSS-3] ciwidth, graph ............................ Graph results from the ciwidth command
[PSS-3] ciwidth, table .............................. Produce table of results from the ciwidth command
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[PSS-2] GUI (power) .............................. Graphical user interface for power and sample-size analysis
[PSS-2] power .......................................... Power and sample-size analysis for hypothesis tests
[PSS-2] power cmh ................................. Power and sample-size analysis for the Cochran–Mantel–Haenszel test
[PSS-2] power cox ................................. Power analysis for the Cox proportional hazards model
[PSS-2] power exponential ......................... Power analysis for a two-sample exponential test
[PSS-2] power logrank ............................. Power analysis for the log-rank test
[PSS-2] power logrank, cluster ................... Power analysis for the log-rank test, CRD
[PSS-2] power mcc ................................. Power analysis for matched case–control studies
[PSS-2] power onecorrelation ................. Power analysis for a one-sample correlation test
[PSS-2] power onemean ......................... Power analysis for a one-sample mean test
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[PSS-2] power oneslope .......................... Power analysis for a slope test in a simple linear regression
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[PSS-2] power oneway ............................. Power analysis for one-way analysis of variance
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[PSS-2] power pairedproportions ............. Power analysis for a two-sample paired-proportions test
[PSS-2] power pcorr ............................... Power analysis for a partial-correlation test in a multiple linear regression
[PSS-2] power repeated ......................... Power analysis for repeated-measures analysis of variance
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| Power analysis for a two-sample proportions test, CRD | \(\text{power twoproportions, cluster} \)
| Power analysis for a two-way analysis of variance | \(\text{power twovariances} \)
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Simulation/resampling

- bootstrap: Bootstrap sampling and estimation
- bsample: Sampling with replacement
- jackknife: Jackknife estimation
- permute: Permutation tests
- simulate: Monte Carlo simulations
- wildbootstrap: Wild cluster bootstrap inference

Spatial autoregressive models

- spxtrregress: Spatial autoregressive models for panel data
- spshape2dta: Translate shapefile to Stata format
- spset: Declare data to be Sp spatial data
- spregress: Spatial autoregressive models
- spmatrix userdefined: Create custom weighting matrix
- spmatrix use: Load spatial weighting matrix from file
- spmatrix summarize: Summarize weighting matrix stored in memory
- spmatrix spfrommata: Copy Mata matrix to Sp
- spmatrix save: Save spatial weighting matrix to file
- spmatrix note: Put note on weighting matrix, or display it
- spmatrix normalize: Normalize weighting matrix
- spmatrix spfrommata: Copy Mata matrix to Sp
- spmatrix spfrommata: Summarize weighting matrix stored in memory
- spmatrix use: Load spatial weighting matrix from file
- spmatrix userdefined: Create custom weighting matrix
- spregress: Spatial autoregressive models
Standard postestimation tests, tables, and other analyses

- Section 13.5: Accessing coefficients and standard errors
- Chapter 20: Estimation and postestimation commands
- contrast: Contrasts and linear hypothesis tests after estimation
- correlate: Correlations of variables
- estat: Postestimation statistics
- estat ic: Display information criteria
- estat summarize: Summarize estimation sample
- estat vce: Display covariance matrix estimates
- estimates: Save and manipulate estimation results
- estimates describe: Describe estimation results
- estimates for: Repeat postestimation command across models
- estimates notes: Add notes to estimation results
- estimates replay: Redisplay estimation results
- estimates save: Save and use estimation results
- estimates selected: Show selected coefficients
- estimates stats: Model-selection statistics
- estimates store: Store and restore estimation results
- estimates table: Compare estimation results
- estimates title: Set title for estimation results
- forecast: Econometric model forecasting
- forecast adjust: Adjust variables to produce alternative forecasts
- forecast clear: Clear current model from memory
- forecast coefvector: Specify an equation via a coefficient vector
- forecast create: Create a new forecast model
- forecast describe: Describe features of the forecast model
- forecast drop: Drop forecast variables
- forecast estimates: Add estimation results to a forecast model
- forecast exogenous: Declare exogenous variables
- forecast identity: Add an identity to a forecast model
- forecast list: List forecast commands composing current model
- forecast query: Check whether a forecast model has been started
- forecast solve: Obtain static and dynamic forecasts
- hausman: Hausman specification test
- lincom: Linear combinations of parameters
- linktest: Specification link test for single-equation models
- lrtest: Likelihood-ratio test after estimation
- margins, contrast: Contrasts of margins
- margins, pwcompare: Pairwise comparisons of margins
- margins: Adjusted predictions, predictive margins, and marginal effects
- marginsplot: Graph results from margins (profile plots, etc.)
- margins: Marginal means, predictive margins, and marginal effects
- mvtest: Multivariate tests
- ncom: Nonlinear combinations of parameters
- postest: Postestimation Selector
- predict: Obtain predictions, residuals, etc., after estimation
- predictnl: Obtain nonlinear predictions, standard errors, etc., after estimation
- pwcompare: Pairwise comparisons
- suest: Seemingly unrelated estimation
- test: Test linear hypotheses after estimation
- testnl: Test nonlinear hypotheses after estimation
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Section 27.31 Survey data

Chapter 20 Estimation and postestimation commands

Survey Introduction to survey commands

bootstrap_options More options for bootstrap variance estimation

brr_options More options for BRR variance estimation

Calibration Calibration for survey data

Direct standardization Direct standardization of means, proportions, and ratios

estat Postestimation statistics for survey data

Example 7 Table of regression results using survey data

jackknife_options More options for jackknife variance estimation

ml for svy Maximum pseudolikelihood estimation for survey data

svy Poststratification Poststratification for survey data

_s_robust Robust variance estimates

sdr_options More options for SDR variance estimation

Subpopulation estimation Subpopulation estimation for survey data

svy The survey prefix command

svy brr Balanced repeated replication for survey data

svy estimation Estimation commands for survey data

svy jackknife Jackknife estimation for survey data

svy postestimation Postestimation tools for svy

svy sdr Successive difference replication for survey data

svy: tabulate oneway One-way tables for survey data

svy: tabulate twoway Two-way tables for survey data

svymarkout Mark observations for exclusion on the basis of survey characteristics

svyset Declare survey design for dataset
Survival analysis

[MI] mi XXXset .................................. Declare mi data to be svy, st, ts, xt, etc.
[SVY] Variance estimation ............................. Variance estimation for survey data

Survival analysis

[U] Chapter 20 .............................................. Estimation and postestimation commands
[U] Section 27.15.5 ........................................ Survival models with panel data
[U] Section 27.17 .............................................. Survival analysis models
[U] Section 27.20 .............................................. Causal inference
[U] Section 27.33 .............................................. Power, precision, and sample-size analysis
[ST] Survival analysis ................................. Introduction to survival analysis commands
[ST] adjustfor_option ................................. Adjust survivor and related functions for covariates at specific values
[BAYES] bayes: streg ..................................... Bayesian parametric survival models
[ST] ct .................................................... Count-time data
[ST] ctset ................................................ Convert data to be count-time data
[ST] cttost ................................................ Convert count-time data to survival-time data
[ST] Discrete ............................................. Discrete-time survival analysis
[ST] estat gofplot ...................................... Goodness-of-fit plots after streg, stcox, stintreg, or stintcox
[ST] fmm: streg ........................................ Finite mixtures of parametric survival models
[LASSO] elasticnet ...................................... Elastic net for prediction and model selection
[ST] ltable ............................................... Life tables for survival data
[ME] mestreg ............................................. Multilevel mixed-effects parametric survival models
[R] reri ..................................................... Relative excess risk due to interaction
[ST] snapspan ............................................ Convert snapshot data to time-span data
[ST] st ...................................................... Survival-time data
[ST] st_is ............................................... Survival analysis subroutines for programmers
[ST] stdescribe ......................................... Describe survival-time data
[ST] stci ................................................... Confidence intervals for means and percentiles of survival time
[ST] stcox ................................................ Cox proportional hazards model
[ST] stcox PH-assumption tests ..................... Tests of proportional-hazards assumption after stcox
[ST] stcrreg ............................................. Competing-risks regression
[ST] stcurve ............................................. Plot the survivor or related function after streg, stcox, and more
[ST] stdescribe ......................................... Describe survival-time data
[R] stepwise ............................................ Stepwise estimation
[ST] stfill ................................................ Fill in by carrying forward values of covariates
[ST] stgen ............................................... Generate variables reflecting entire histories
[ST] stintcox ........................................... Cox proportional hazards model for interval-censored survival-time data
[ST] stintcox PH-assumption plots .................. Plots of proportional-hazards assumption after stintcox
[ST] stintreg ............................................ Parametric models for interval-censored survival-time data
[ST] strate ............................................... Report incidence-rate comparison
[ST] stmc ................................................ Calculate rate ratios with the Mantel–Cox method
[ST] stmh ................................................ Calculate rate ratios with the Mantel–Haenszel method
[ST] stptime ............................................. Calculate person-time, incidence rates, and SMR
[ST] strate ............................................... Tabulate failure rates and rate ratios
[ST] streg ............................................... Parametric survival models
[ST] stst ................................................ Generate, graph, list, and test the survivor and related functions
[ST] ststats ............................................. Create variables containing survivor and related functions
[ST] stst graph ......................................... Graph the survivor or related function
[ST] stst list .......................................... List the survivor or related function
[ST] stst test ........................................... Test equality of survivor functions
[ST] stset ................................................ Declare data to be survival-time data
### Time series, multivariate

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<th>Description</th>
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<td>forecast</td>
<td>Econometric model forecasting</td>
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<td>forecast adjust</td>
<td>Adjust variables to produce alternative forecasts</td>
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<td>forecast clear</td>
<td>Clear current model from memory</td>
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<td>forecast coefvector</td>
<td>Specify an equation via a coefficient vector</td>
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<td>forecast create</td>
<td>Create a new forecast model</td>
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<tr>
<td>forecast describe</td>
<td>Describe features of the forecast model</td>
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<td>forecast drop</td>
<td>Drop forecast variables</td>
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<tr>
<td>forecast estimates</td>
<td>Add estimation results to a forecast model</td>
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<td>forecast exogenous</td>
<td>Declare exogenous variables</td>
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<tr>
<td>forecast identity</td>
<td>Add an identity to a forecast model</td>
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<tr>
<td>forecast list</td>
<td>List forecast commands composing current model</td>
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<tr>
<td>forecast query</td>
<td>Check whether a forecast model has been started</td>
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<tr>
<td>forecast solve</td>
<td>Obtain static and dynamic forecasts</td>
</tr>
<tr>
<td>irf solve</td>
<td>Create and analyze IRFs, dynamic-multiplier functions, and FEVDs</td>
</tr>
<tr>
<td>irf add</td>
<td>Add results from an IRF file to the active IRF file</td>
</tr>
<tr>
<td>irf cgraph</td>
<td>Combined graphs of IRFs, dynamic-multiplier functions, and FEVDs</td>
</tr>
<tr>
<td>irf create</td>
<td>Obtain IRFs, dynamic-multiplier functions, and FEVDs</td>
</tr>
<tr>
<td>irf ctable</td>
<td>Combined tables of IRFs, dynamic-multiplier functions, and FEVDs</td>
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<tr>
<td>irf describe</td>
<td>Describe an IRF file</td>
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<td>irf drop</td>
<td>Drop IRF results from the active IRF file</td>
</tr>
<tr>
<td>irf graph</td>
<td>Graphs of IRFs, dynamic-multiplier functions, and FEVDs</td>
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<tr>
<td>irf ograph</td>
<td>Overlaid graphs of IRFs, dynamic-multiplier functions, and FEVDs</td>
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<td>Rename an IRF result in an IRF file</td>
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<td>irf table</td>
<td>Tables of IRFs, dynamic-multiplier functions, and FEVDs</td>
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<tr>
<td>lpirf</td>
<td>Local-projection impulse–response functions</td>
</tr>
<tr>
<td>mgarch</td>
<td>Multivariate GARCH models</td>
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<tr>
<td>mgarch ccc</td>
<td>Constant conditional correlation multivariate GARCH models</td>
</tr>
</tbody>
</table>

Also see *Power, precision, and sample size.*
Time series, univariate

Section 11.4.4 .......................... Time-series varlists
Section 13.10 ............................. Time-series operators
Chapter 20 ................................ Estimation and postestimation commands
Section 27.14 ................................ Time-series models

Time series ................................ Introduction to time-series commands
arch ................................. Autoregressive conditional heteroskedasticity (ARCH) family of estimators
arfima ................................. Autoregressive fractionally integrated moving-average models
arfimasoc ............................ Obtain lag-order selection statistics for ARFIMAs
arima ................................. ARIMA, ARMAX, and other dynamic regression models
arimasoc ............................. Obtain lag-order selection statistics for ARIMAs
corrgram .............................. Tabulate and graph autocorrelations
cumsp ................................. Graph cumulative spectral distribution
dfghs .................................. DF-GLS unit-root test
dfuller ................................. Augmented Dickey–Fuller unit-root test
estat acplot .......................... Plot parametric autocorrelation and autocovariance functions
estat aroots .......................... Check the stability condition of ARIMA estimates
estat sbcusum ........................ Cumulative sum test for parameter stability
estat sbknown ......................... Test for a structural break with a known break date
estat sbsingle ......................... Test for a structural break with an unknown break date
forecast .............................. Econometric model forecasting

mgarch dcc ......................... Dynamic conditional correlation multivariate GARCH models
mgarch dvech ........................ Diagonal vech multivariate GARCH models
mgarch vcc ......................... Varying conditional correlation multivariate GARCH models
rolling ................................ Rolling-window and recursive estimation
sspace ................................. State-space models
tsappend ............................. Add observations to a time-series dataset
tsfill ................................. Fill in gaps in time variable
tsline ................................ Time-series line plots
tsreport .............................. Report time-series aspects of a dataset or estimation sample
tsset ................................ Declare data to be time-series data
var intro .............................. Introduction to vector autoregressive models
var ivsvar ............................. Instrument-variables structural vector autoregressive models
var svar .............................. Structural vector autoregressive models
var ................................... Vector autoregressive models
varbasic .............................. Fit a simple VAR and graph IRFs or FEVDs
vargranger ........................... Pairwise Granger causality tests
varlm ................................. LM test for residual autocorrelation
vannorm .............................. Test for normally distributed disturbances
varsoc ................................. Obtain lag-order selection statistics for VAR and VEC models
varstable ............................ Check the stability condition of VAR or SVAR estimates
varwle ................................. Obtain Wald lag-exclusion statistics
vec intro .............................. Introduction to vector error-correction models
vec ................................... Vector error-correction models
veclmar ............................... LM test for residual autocorrelation after vec
vecnorm .............................. Test for normally distributed disturbances after vec
vecranc ............................... Estimate the cointegrating rank of a VEC model
vecstable ............................ Check the stability condition of VEC model estimates
vec ×corr ............................. Cross-correlogram for bivariate time series

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Transforms and normality tests

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<td>fp</td>
<td>Fractional polynomial regression</td>
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<tr>
<td>ladder</td>
<td>Ladder of powers</td>
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<tr>
<td>lnskew0</td>
<td>Find zero-skewness log or Box–Cox transform</td>
</tr>
<tr>
<td>mfp</td>
<td>Multivariable fractional polynomial models</td>
</tr>
</tbody>
</table>

**Transforms and normality tests**
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 rowjoinbyname .......................... Join rows while matching on column names

**[P]** matrix rownames .................................. Name rows and columns

**[P]** matrix score ...................................... Score data from coefficient vectors

**[R]** ml ................................................. Maximum likelihood estimation

**[M]** *Mata Reference Manual* ...........................

### 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 symeigen ................................. Eigenvalues and eigenvectors of symmetric matrices

### Mata

**[D]** putmata ......................................... Put Stata variables into Mata and vice versa

**[M]** *Mata Reference Manual* ...........................

### 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

---

**Multivariate normality tests**

**Skewness and kurtosis tests for normality**

**Shapiro–Wilk and Shapiro–Francia tests for normality**

---

**Matrix commands**

**Basics**

- **mvtest normality**
- **sktest**
- **swilk**

**Programming**

- **ereturn**
- **matrix accum**
- **matrix rowjoinbyname**
- **matrix rownames**
- **matrix score**
- **ml**

**Other**

- **makecns**
- **matrix dissimilarity**
- **matrix eigenvalues**
- **matrix get**
- **matrix mkmat**
- **matrix svd**
- **matrix symeigen**

**Mata**

- **putmata**

**Programming**

**Basics**

- **Chapter 18**
- **Section 18.3**
- **Section 18.11**
- **comments**
- **fvexpand**
- **macro**
- **program**
- **return**
## Program control

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<td>continue</td>
<td>Break out of loops</td>
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<td></td>
<td>error</td>
<td>Display generic error message and exit</td>
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<td></td>
<td>foreach</td>
<td>Loop over items</td>
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<td></td>
<td>forvalues</td>
<td>Loop over consecutive values</td>
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<td>version</td>
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<td>while</td>
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## Parsing and program arguments

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<td>confirm</td>
<td>Argument verification</td>
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<td></td>
<td>gettoken</td>
<td>Low-level parsing</td>
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<tr>
<td></td>
<td>levelsof</td>
<td>Distinct levels of a variable</td>
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<tr>
<td></td>
<td>numlist</td>
<td>Parse numeric lists</td>
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<tr>
<td></td>
<td>syntax</td>
<td>Parse Stata syntax</td>
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<td></td>
<td>tokenize</td>
<td>Divide strings into tokens</td>
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</table>

## Console output

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<td>Dialog programming</td>
<td>Dialog programming</td>
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<td></td>
<td>display</td>
<td>Display strings and values of scalar expressions</td>
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<tr>
<td></td>
<td>smcl</td>
<td>Stata Markup and Control Language</td>
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<td></td>
<td>tabdisp</td>
<td>Display tables</td>
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<td></td>
<td>unicode</td>
<td>Unicode utilities</td>
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## Commonly used programming commands

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

## Debugging

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<tr>
<td>pause</td>
<td>Program debugging command</td>
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<tr>
<td>timer</td>
<td>Time sections of code by recording and reporting time spent</td>
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<td>trace</td>
<td>Debug Stata programs</td>
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Advanced programming commands

[U] Section 12.4.2.5 Sorting strings containing Unicode characters
[RPT] Appendix for putdocx Appendix for putdocx entries
[RPT] Appendix for putpdf Appendix for putpdf entries
[P] Automation Automation
[P] break Suppress Break key
[P] char Characteristics
[M-2] class Exit class-member program and return result
[P] class Class programming
[P] class exit Class programming utility
[M-5] _docx*() Generate Office Open XML (.docx) document
[RPT] docx2pdf Convert a Word (.docx) document to a PDF file
[RPT] Dynamic documents intro Introduction to dynamic documents
[RPT] Dynamic tags Dynamic tags for text files
[RPT] dyndoc Convert dynamic Markdown document to HTML or Word (.docx) document
[RPT] dyndocx Process Stata dynamic tags in text file
[P] estat programming Controlling estat after community-contributed commands
[P] _estimates Manage estimation results
[P] Estimation command How to program an estimation command
[P] file Read and write text and binary files
[P] findfile Find file in path
[P] frame post Post results to dataset in another frame
[P] H2O intro Introduction to integration with H2O
[RPT] html2docx Convert an HTML file to a Word (.docx) document
[P] include Include commands from file
[P] Java integration Java integration for Stata
[P] Java intro Introduction to Java in Stata
[P] Java plugin Introduction to Java plugins
[P] Java utilities Java utilities
[P] javacall Call a Java plugin
[M-5] LinearProgram() Linear programming
[P] macro Macro definition and manipulation
[P] macro lists Manipulate lists
[RPT] markdown Convert Markdown document to HTML file or Word (.docx) document
[R] ml Maximum likelihood estimation
[M-5] moptimize() Model optimization
[M-5] optimize() Function optimization
[M-5] Pdf*() Create a PDF file
[P] plugin Load a plugin
[P] postfile Post results in Stata dataset
[P] _predict Obtain predictions, residuals, etc., after estimation programming command
[P] program properties Properties of user-defined programs
[RPT] putdocx begin Create an Office Open XML (.docx) file
[RPT] putdocx collect Add a table from a collection to an Office Open XML (.docx) file
[RPT] putdocx intro Introduction to generating Office Open XML (.docx) files
[RPT] putdocx pagebreak Add breaks to an Office Open XML (.docx) file
[RPT] putdocx paragraph Add text or images to an Office Open XML (.docx) file
[RPT] putdocx table Add tables to an Office Open XML (.docx) file
[RPT] putexcel Export results to an Excel file
[RPT] putexcel advanced Export results to an Excel file using advanced syntax
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<thead>
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<th>Command</th>
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<td>Put Stata variables into Mata and vice versa</td>
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<td>putpdf begin</td>
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<td>putpdf collect</td>
<td>Add a table from a collection to a PDF file</td>
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<td>putpdf intro</td>
<td>Introduction to generating PDF files</td>
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<td>putpdf paragraph</td>
<td>Add text or images to a PDF file</td>
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<td>putpdf table</td>
<td>Add tables to a PDF file</td>
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<tr>
<td>PyStata intro</td>
<td>Introduction to using Python and Stata together</td>
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<td>PyStata integration</td>
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<td>PyStata module</td>
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<td>_rmcoll</td>
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<td>_robust</td>
<td>Robust variance estimates</td>
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<td>Create and manipulate sersets</td>
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<td>snapshot</td>
<td>Save and restore data snapshots</td>
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<td>unab</td>
<td>Unabbreviate variable list</td>
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<tr>
<td>unabcmd</td>
<td>Unabbreviate command name</td>
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<tr>
<td>unicode collator</td>
<td>Language-specific Unicode collators</td>
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<tr>
<td>unicode convertfile</td>
<td>Low-level file conversion between encodings</td>
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<tr>
<td>varabbrev</td>
<td>Control variable abbreviation</td>
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<tr>
<td>viewsource</td>
<td>View source code</td>
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<tr>
<td>xl()</td>
<td>Excel file I/O class</td>
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</tbody>
</table>

Special-interest programming commands

- bstat: Report bootstrap results
- cluster programming subroutines: Add cluster-analysis routines
- cluster programming utilities: Cluster-analysis programming utilities
- fvrevar: Factor-variables operator programming command
- matrix dissimilarity: Compute similarity or dissimilarity measures
- mi select: Programmer’s alternative to mi extract
- st_is: Survival analysis subroutines for programmers
- svymarkout: Mark observations for exclusion on the basis of survey characteristics
- Technical: Details for programmers
- tsrevar: Time-series operator programming command

Projects

- Project Manager: Organize Stata files

File formats

- File formats .dta: Description of .dta file format
- File formats .dtas: Description of Stata frameset (.dtas) file format
- unicode convertfile: Low-level file conversion between encodings
- unicode translate: Translate files to Unicode

Mata

- Mata Reference Manual
Customizable tables and collections

[Intables] Intro ............................................ Introduction
[Intables] Intro 1 ........................................ How to read this manual
[Intables] Intro 2 .......................................... A tour of concepts and commands
[Intables] Intro 3 .......................................... Workflow outline
[Intables] Intro 4 .......................................... Overview of commands
[Intables] Intro 5 .......................................... Other tabulation commands
[Intables] Appendix ....................................... Appendix
[Intables] Collect addtags ................................ Add tags to items in a collection
[Intables] Collect clear .................................... Clear all collections in memory
[Intables] Collect combine ................................ Combine collections
[Intables] Collect composite ............................... Manage composite results in a collection
[Intables] Collect copy .................................... Copy a collection
[Intables] Collect create .................................. Create a new collection
[Intables] Collect dims ..................................... List dimensions in a collection
[Intables] Collect dir ...................................... Display names of all collections in memory
[Intables] Collect export .................................. Export table from a collection
[Intables] Collect get ...................................... Collect results from a Stata command
[Intables] Collect label .................................... Manage custom labels in a collection
[Intables] Collect layout .................................. Specify table layout for the current collection
[Intables] Collect levelsof ................................ List levels of a dimension
[Intables] Collect notes .................................... Add table notes in a collection
[Intables] Collect preview ................................ Preview the table in a collection
[Intables] Collect query .................................... Query collection style properties
[Intables] Collect recode .................................. Recode dimension levels in a collection
[Intables] Collect remap .................................... Remap tags in a collection
[Intables] Collect rename .................................. Rename a collection
[Intables] Collect save ..................................... Save a collection to disk
[Intables] Collect set ...................................... Set the current (active) collection
[Intables] Collect stars .................................... Add stars for significant results in a collection
[Intables] Collect style _cons ............................. Collection styles for intercept position
[Intables] Collect style autolevels ......................... Collection styles for automatic dimension levels
[Intables] Collect style cell ................................ Collection styles for cells
[Intables] Collect style clear ................................ Clear all collection styles
[Intables] Collect style column ............................ Collection styles for column headers
[Intables] Collect style header ............................. Collection styles for hiding and showing header components
[Intables] Collect style html ................................ Collection styles for HTML files
[Intables] Collect style notes ................................ Collection styles for table notes
[Intables] Collect style putdocx .......................... Collection styles for putdocx
[Intables] Collect style putpdf ................................ Collection styles for putpdf
[Intables] Collect style row ................................ Collection styles for row headers
[Intables] Collect style save ................................ Save collection styles to disk
[Intables] Collect style showbase .......................... Collection styles for displaying base levels
[Intables] Collect style showempty ........................ Collection styles for displaying empty cells
[Intables] Collect style showomit .......................... Collection styles for displaying omitted coefficients
[Intables] Collect style table ................................ Collection styles for table headers
[Intables] Collect style tex ................................ Collection styles for \LaTeX files
[Intables] Collect style title ................................ Collection styles for table titles
[Intables] Collect style use ................................. Use collection styles from disk
[Intables] Collect title ...................................... Add a custom table title in a collection
[Intables] Collect use ...................................... Use a collection from disk
Automated document and report creation

Chapter 21 Creating reports

Appendix for putdocx Appendix for putdocx entries

Appendix for putpdf Appendix for putpdf entries

Intro Introduction to reporting manual

docx2pdf Convert a Word (.docx) document to a PDF file

dyndoc Convert dynamic Markdown document to HTML or Word (.docx) document

dyntext Process Stata dynamic tags in text file

html2docx Convert an HTML file to a Word (.docx) document

markdown Convert Markdown document to HTML file or Word (.docx) document

putdocx begin Create an Office Open XML (.docx) file

putdocx collect Add a table from a collection to an Office Open XML (.docx) file

putdocx intro Introduction to generating Office Open XML (.docx) files

putdocx pagebreak Add breaks to an Office Open XML (.docx) file

putdocx paragraph Add text or images to an Office Open XML (.docx) file

putdocx table Add tables to an Office Open XML (.docx) file

putexcel Export results to an Excel file

putexcel advanced Export results to an Excel file using advanced syntax

putdocx intro Introduction to generating Office Open XML (.docx) files

putpdf begin Create a PDF file

putpdf collect Add a table from a collection to a PDF file

putpdf intro Introduction to generating PDF files

putpdf pagebreak Add breaks to a PDF file
Interface features

- **Chapter 1 (GSM, GSU, GSW)**: Introducing Stata—sample session
- **Chapter 2 (GSM, GSU, GSW)**: The Stata user interface
- **Chapter 3 (GSM, GSU, GSW)**: Using the Viewer
- **Chapter 6 (GSM, GSU, GSW)**: Using the Data Editor
- **Chapter 7 (GSM, GSU, GSW)**: Using the Variables Manager
- **Chapter 13 (GSM, GSU, GSW)**: Using the Do-file Editor—automating Stata
- **Chapter 15 (GSM, GSU, GSW)**: Editing graphs
- **Dialog programming**: Dialog programming
- **doedit**: Edit do-files and other text files
- **edit**: Browse or edit data with Data Editor
- **set localeUi**: Specify a localization package for the user interface
- **sleep**: Pause for a specified time
- **smcl**: Stata Markup and Control Language
- **unicode locale**: Unicode locale utilities
- **varmanage**: Manage variable labels, formats, and other properties
- **viewsource**: View source code
- **window fopen**: Display open/save dialog box
- **window manage**: Manage window characteristics
- **window menu**: Create menus
- **window programming**: Programming menus and windows
- **window push**: Copy command into History window
- **window stopbox**: Display message box
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2SIV</td>
<td>two-step instrumental variables</td>
</tr>
<tr>
<td>2SLS</td>
<td>two-stage least squares</td>
</tr>
<tr>
<td>3SLS</td>
<td>three-stage least squares</td>
</tr>
<tr>
<td>ADF</td>
<td>asymptotic distribution free</td>
</tr>
<tr>
<td>ADTE</td>
<td>average direct treatment effect</td>
</tr>
<tr>
<td>ADTET</td>
<td>average direct treatment effect with respect to the treated</td>
</tr>
<tr>
<td>AFE</td>
<td>attributable fraction among the exposed</td>
</tr>
<tr>
<td>AFP</td>
<td>attributable fraction for the population</td>
</tr>
<tr>
<td>AFT</td>
<td>accelerated failure time</td>
</tr>
<tr>
<td>AIC</td>
<td>Akaike information criterion</td>
</tr>
<tr>
<td>AICc</td>
<td>corrected Akaike information criterion</td>
</tr>
<tr>
<td>AIDS</td>
<td>almost ideal demand system</td>
</tr>
<tr>
<td>AIPW</td>
<td>augmented inverse-probability weights</td>
</tr>
<tr>
<td>AITE</td>
<td>average indirect treatment effect</td>
</tr>
<tr>
<td>AITEC</td>
<td>average indirect treatment effect with respect to controls</td>
</tr>
<tr>
<td>ANCOVA</td>
<td>analysis of covariance</td>
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<tr>
<td>ANOVA</td>
<td>analysis of variance</td>
</tr>
<tr>
<td>AP</td>
<td>attributable proportion</td>
</tr>
<tr>
<td>APE</td>
<td>average partial effects</td>
</tr>
<tr>
<td>API</td>
<td>application programming interface</td>
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<tr>
<td>AR</td>
<td>autoregressive</td>
</tr>
<tr>
<td>AR(1)</td>
<td>first-order autoregressive</td>
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<tr>
<td>ARCH</td>
<td>autoregressive conditional heteroskedasticity</td>
</tr>
<tr>
<td>ARFIMA</td>
<td>autoregressive fractionally integrated moving average</td>
</tr>
<tr>
<td>ARIMA</td>
<td>autoregressive integrated moving average</td>
</tr>
<tr>
<td>ARMA</td>
<td>autoregressive moving average</td>
</tr>
<tr>
<td>ARMAX</td>
<td>autoregressive moving-average exogenous</td>
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<tr>
<td>ASCII</td>
<td>American Standard Code for Information Interchange</td>
</tr>
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<td>ASE</td>
<td>asymptotic standard error</td>
</tr>
<tr>
<td>ASF</td>
<td>average structural function</td>
</tr>
<tr>
<td>ASL</td>
<td>achieved significance level</td>
</tr>
<tr>
<td>ASM</td>
<td>average structural mean</td>
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<td>ASP</td>
<td>average structural probability</td>
</tr>
<tr>
<td>ATE</td>
<td>average treatment effect</td>
</tr>
<tr>
<td>ATET</td>
<td>average treatment effect on the treated</td>
</tr>
<tr>
<td>AUC</td>
<td>area under the time–concentration curve</td>
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<td>BMA</td>
<td>Bayesian model averaging</td>
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<td>BC</td>
<td>bias corrected</td>
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<td>BCa</td>
<td>bias-corrected and accelerated</td>
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<tr>
<td>BCC</td>
<td>boundary characteristic curve</td>
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<td>BE</td>
<td>between effects</td>
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<td>BFGS</td>
<td>Broyden–Fletcher–Goldfarb–Shanno</td>
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<td>BHHH</td>
<td>Berndt–Hall–Hall–Hausman</td>
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<td>BIC</td>
<td>Bayesian information criterion</td>
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<tr>
<td>BLOB</td>
<td>binary large object</td>
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<tr>
<td>BLUP</td>
<td>best linear unbiased prediction</td>
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<tr>
<td>BRR</td>
<td>balanced repeated replication</td>
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<tr>
<td>CA</td>
<td>correspondence analysis</td>
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<td>CAIC</td>
<td>consistent Akaike information criterion</td>
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<td>CCC</td>
<td>category characteristic curve</td>
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<td>CCI</td>
<td>conservative confidence interval</td>
</tr>
<tr>
<td>CCT</td>
<td>controlled clinical trial</td>
</tr>
<tr>
<td>CD</td>
<td>coefficient of determination</td>
</tr>
<tr>
<td>CDC</td>
<td>Centers for Disease Control and Prevention</td>
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</tbody>
</table>
CDF  cumulative distribution function
CES  constant elasticity of substitution
CFA  confirmatory factor analysis
CFI  comparative fit index
CI  conditional independence
CI  confidence interval
CIF  cumulative incidence function
CMA  cumulative meta-analysis
CMI  conditional mean independence
CMLE  conditional maximum likelihood estimates
CMYK  cyan, magenta, yellow, and key
CPMP  cumulative posterior model probability
CRD  cluster randomized design
CRVE  cluster-robust variance estimator
cy  count time
cusum  cumulative sum
CV  coefficient of variation
CV  cross-validation

DA  data augmentation
DDD  difference in difference in differences
DF  denominator degrees of freedom
DFs  multiple denominator degrees of freedom
DEFF  design effect
DEFT  design effect (standard deviation metric)
DF  dynamic factor
df / d.f.  degree(s) of freedom
d.f.  distribution function
DFAR  dynamic factors with vector autoregressive errors
DFP  Davidon–Fletcher–Powell
DIB  Device-Independent Bitmap
DIC  deviance information criterion
DID  difference in differences
DLL  dynamic-link library
DMC  Data Monitoring Committee
DML  double machine learning
DPD  dynamic panel data
DSGE  dynamic stochastic general equilibrium
DSMB  Data and Safety Monitoring Board
DSMC  Data and Safety Monitoring Committee

EBCDIC  extended binary coded decimal interchange code
EGARCH  exponential GARCH
EGLS  estimated generalized least squares
EIM  expected information matrix
EM  expectation maximization
EMF  Enhanced Metafile
EPS  Encapsulated PostScript
ERM  extended regression model
ERR  excess relative risk
ESS  effective sample size
ESS  error sum of squares
ESS  expected sample size

FCS  fully conditional specification
FD  first-differenced estimator
FDA  Food and Drug Administration
FE  fixed effects
FEVD  forecast-error variance decomposition
FGLS  feasible generalized least squares
FGNLS  feasible generalized nonlinear least squares
FIML  full information maximum likelihood
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Glossary</th>
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<tbody>
<tr>
<td>FIVE estimator</td>
<td>full-information instrumental-variables efficient estimator</td>
</tr>
<tr>
<td>flong</td>
<td>full long</td>
</tr>
<tr>
<td>flongsep</td>
<td>full long and separate</td>
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<tr>
<td>FMI</td>
<td>fraction of missing information</td>
</tr>
<tr>
<td>FMM</td>
<td>finite mixture model</td>
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<td>FP</td>
<td>fractional polynomial</td>
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<td>FPC</td>
<td>finite population correction</td>
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<td>GARCH</td>
<td>generalized autoregressive conditional heteroskedasticity</td>
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<td>GEE</td>
<td>generalized estimating equations</td>
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<td>GEV</td>
<td>generalized extreme value</td>
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<td>GHK</td>
<td>Geweke–Hajivassiliou–Keane</td>
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<td>GHQ</td>
<td>Gauss–Hermite quadrature</td>
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<td>GIF</td>
<td>Graphics Interchange Format</td>
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<td>GLIM</td>
<td>generalized linear interactive modeling</td>
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<td>GLLAMM</td>
<td>generalized linear latent and mixed models</td>
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<td>GLM</td>
<td>generalized linear models</td>
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<td>GLS</td>
<td>generalized least squares</td>
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<td>GMM</td>
<td>generalized method of moments</td>
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<td>GPCM</td>
<td>generalized partial credit model</td>
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<td>GRM</td>
<td>graded response model</td>
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<td>GS2SLS</td>
<td>generalized spatial two-stage least squares</td>
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<td>GSEM</td>
<td>generalized structural equation modeling/model</td>
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<td>GSD</td>
<td>group sequential design</td>
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<td>GUI</td>
<td>graphical user interface</td>
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<td>HAC</td>
<td>heteroskedasticity- and autocorrelation-consistent</td>
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<td>HPD</td>
<td>highest posterior density</td>
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<td>HPM</td>
<td>highest probability model</td>
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<td>HQIC</td>
<td>Hannan–Quinn information criterion</td>
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<td>HR</td>
<td>hazard ratio</td>
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<tr>
<td>HSB</td>
<td>hue, saturation, and brightness</td>
</tr>
<tr>
<td>HSL</td>
<td>hue, saturation, and luminance</td>
</tr>
<tr>
<td>HSV</td>
<td>hue, saturation, and value</td>
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<td>HTML</td>
<td>hypertext markup language</td>
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<td>IC</td>
<td>information criteria</td>
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<td>ICC</td>
<td>item characteristic curve</td>
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<td>ICD-9</td>
<td>International Classification of Diseases, Ninth Revision</td>
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<td>ICD-10</td>
<td>International Classification of Diseases, Tenth Revision</td>
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<tr>
<td>ICD-10-CM</td>
<td>International Classification of Diseases, Tenth Revision, Clinical Modification</td>
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<tr>
<td>ICD-10-PCS</td>
<td>International Classification of Diseases, Tenth Revision, Procedure Coding System</td>
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<td>ICU</td>
<td>International Components for Unicode</td>
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<td>IIA</td>
<td>independence of irrelevant alternatives</td>
</tr>
<tr>
<td>i.i.d.</td>
<td>independent and identically distributed</td>
</tr>
<tr>
<td>IIF</td>
<td>item information function</td>
</tr>
<tr>
<td>IPW</td>
<td>inverse-probability weighting</td>
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<tr>
<td>IPWRA</td>
<td>inverse-probability-weighted regression adjustment</td>
</tr>
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<td>IQR</td>
<td>interquartile range</td>
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<td>inverse quantile regression</td>
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<td>IR</td>
<td>incidence rate</td>
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<td>IRF</td>
<td>impulse–response function</td>
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<td>IRLS</td>
<td>iterated, reweighted least squares</td>
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<td>IRR</td>
<td>incidence-rate ratio</td>
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<td>IRT</td>
<td>item response theory</td>
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<td>instrumental variables</td>
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<td>instrumental-variables quantile regression</td>
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<td>JAR</td>
<td>Java Archive file</td>
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<td>JCA</td>
<td>joint correspondence analysis</td>
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<td>JDBC</td>
<td>Java Database Connectivity</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<td>JPEG</td>
<td>Joint Photographic Experts Group</td>
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<td>Java Runtime Environment</td>
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<td>Java Virtual Machine</td>
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<td>LAPACK</td>
<td>linear algebra package</td>
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<td>LASSO</td>
<td>least absolute shrinkage and selection operator</td>
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<td>least absolute value</td>
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<td>latent class analysis</td>
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<td>linear discriminant analysis</td>
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<td>LES</td>
<td>linear expenditure system</td>
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<td>LIML</td>
<td>limited-information maximum likelihood</td>
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<tr>
<td>LM</td>
<td>Lagrange multiplier</td>
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<td>LOO</td>
<td>leave one out</td>
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<td>LOWESS</td>
<td>locally weighted scatterplot smoothing</td>
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<td>LPS</td>
<td>log predictive-score</td>
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<td>LR</td>
<td>likelihood ratio</td>
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<td>LSB</td>
<td>least-significant byte</td>
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<td>MA</td>
<td>moving average</td>
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<td>MAD</td>
<td>minimum absolute deviation</td>
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<td>MANCOVA</td>
<td>multivariate analysis of covariance</td>
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<td>multivariate analysis of variance</td>
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<td>MAR</td>
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<td>MC3</td>
<td>Markov chain Monte Carlo model composition</td>
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<td>multiple correspondence analysis</td>
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<td>MCAGHQ</td>
<td>mode-curvature adaptive Gauss–Hermite quadrature</td>
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<td>misspecification effect</td>
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<td>MEFT</td>
<td>misspecification effect (standard deviation metric)</td>
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<td>MFP</td>
<td>multivariable fractional polynomial</td>
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<td>MI / mi</td>
<td>multiple imputation</td>
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<td>midp</td>
<td>mid-$p$-value</td>
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<td>MIMIC</td>
<td>multiple indicators and multiple causes</td>
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<td>MINQUE</td>
<td>minimum norm quadratic unbiased estimation</td>
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<td>minimum variance quadratic unbiased estimation</td>
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<td>maximum likelihood</td>
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<td>maximum likelihood estimate</td>
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<td>maximum likelihood with missing values</td>
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<td>median probability model</td>
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<td>mean square</td>
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<td>most-significant byte</td>
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<td>mean squared error</td>
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<td>maximum simulated likelihood</td>
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<td>model sum of squares</td>
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<td>mean–variance adaptive Gauss–Hermite quadrature</td>
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<td>multivariate normal</td>
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<td>MVREG</td>
<td>multivariate regression</td>
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</table>
NARCH: nonlinear ARCH
NDE: natural direct effect
NHANES: National Health and Nutrition Examination Survey
NIE: natural indirect effect
NLS: nonlinear least squares
NPARCH: nonlinear power ARCH
NPMLE: nonparametric maximum-likelihood estimation
NR: Newton–Raphson
NRM: nominal response model

ODBC: Open DataBase Connectivity
OIM: observed information matrix
OIRF: orthogonalized impulse–response function
OLE: Object Linking and Embedding (Microsoft product)
OLS: ordinary least squares
OPG: outer product of the gradient
OR: odds ratio

PA: population averaged
PARCH: power ARCH
PCA: principal component analysis
PCM: partial credit model
PCSE: panel-corrected standard error
PDF: Portable Document Format
p.d.f.: probability density function
PFE: prevented fraction among the exposed
PFP: prevented fraction for the population
PH: proportional hazards
PIP: posterior inclusion probability
pk: pharmacokinetic data
p.m.f.: probability mass function
PMM: predictive mean matching
PMP: posterior model probability
PNG: Portable Network Graphics
PNIE: pure natural indirect effect
POM: potential-outcome means
PPP: posterior predictive p-value
PSS: power (precision) and sample size
PSU: primary sampling unit

QDA: quadratic discriminant analysis
QML: quasimaximum likelihood
QUAIDS: quadratic almost ideal demand system

RA: regression adjustment
rc: return code
RCT: randomized controlled trial
RE: random effects
REML: restricted (or residual) maximum likelihood
RERI: relative excess risk due to interaction
RESET: regression specification-error test
RGB: red, green, and blue
RMSE: root mean squared error
RMSEA: root mean squared error of approximation
RNG: random-number generator
ROC: receiver operating characteristic
ROP: rank-ordered probit
ROT: rule of thumb
RR: relative risk
RRR: relative-risk ratio
RSM: rating scale model
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Bowden, J., [META] Intro, [META] meta
esize, [META] meta summarize, [META] meta
regress, [META] meta trimfill
Borg, I., [MV] mds, [MV] mds postestimation,
[MV] mdslong, [MV] mdsmat
Borg, O., [ST] sterreg
Bos, J. M., [R] betareg
Boshuizen, H. C., [MI] Intro substantive, [MI] mi
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Bosuwy, P. M., [META] meta mvregress
Boswell, T. M., [ST] streg postestimation
Bowden, J., [META] Intro, [META] meta
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regress, [META] meta trimfill
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[MV] mdslong, [MV] mdsmat
Borkowski, J. M., [R] cholesky
Börsch-Supan, A., [XT] xtlogit
Bos, J. M., [R] betareg
Boshuizen, H. C., [MI] Intro substantive, [MI] mi
impute, [MI] mi impute chained, [MI] mi
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Bosuwy, P. M., [META] meta mvregress
Boswell, T. M., [ST] streg postestimation
Bowden, J., [META] Intro, [META] meta
esize, [META] meta summarize, [META] meta
regress, [META] meta trimfill
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[MV] mdslong, [MV] mdsmat
Borkowski, J. M., [R] cholesky
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 [R] constraint, [R] eform_option, [R] logistic,
 [R] logit, [R] margins, [U] 11.7 References
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Bunch, D. S., [CM] cmmprobit
Buonaccorsi, J. P., [R]
Burnam, M. A., [R]
Burns, K. E. A., [ADAPT]
gsdesign twoproportions
Burns, J. C., [ME] mixed
Burns, K. E. A., [ADAPT] gsdesign twoproportions
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Burnell, D. T., [ME] mestreg
Burks, V., [R] tabstat
Busso, M., [CAUSAL] stteffects ipwra,
[CAUSAL] teoverlap
Butterworth, S., [TS] tsfilter, [TS] tsfilter bw
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Caffo, B. S., [BAYES] bayestats summary,
[XT] xtmelogit
Cai, T., [R] rocreg, [R] zinb, [R] ziprob, [R] zip,
[ST] stintcox
Cai, T. T., [R] ci
Cailliez, F., [MV] mdsmat
Cain, G. G., [CAUSAL] etregress
Cain, M., [PSS-2] power usermethod
Caines, P. E., [TS] sspace
Calabrese, J. M., [BMA] Intro
Caliendo, M., [CAUSAL] stteffects intro advanced
Califf, R. M., [ST] stcox postestimation
Caliński, T., [MV] cluster, [MV] cluster stop
Callaway, B., [CAUSAL] DID intro,
Calzolari, G., [TS] threshold, [XT] xtdpdsys
Cameron, A. C., [BAYES] Intro, [CAUSAL] DID intro, [CAUSAL] didregress,
[CAUSAL] stteffects aipw, [CAUSAL] stteffects ra,
[CM] Intro 8, [CM] cmlclogit,
[CM] cmmixlogit, [CM] cmmprobit,
[CM] cmxtmixlogit, [ERM] Intro 9,
[ERM] intreg, [FMM] Example 1a
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[ME] meglm, [ME] mixed, [R] betareg,
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[R]heckman, [R] hecprob, [R] heckpoisson,
[R] intreg, [R] ipoisson, [R] ivregress,
[R] ivregress postestimation, [R] logit,
[R] mprobit, [R] nbreg, [R] ologit, [R] oprobit,
[R] poisson, [R] probit, [R] qreg, [R] regress,
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[R] sureg, [R] tnbreg, [R] tobit, [R] tpoisson,
[R] wildbootstrap, [R] zbinb, [R] zinb,
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[TS] forecast estimates, [XT] xt, [XT] xtnbreg,
[XT] xtopoisson
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[PSS-2] power oneproportion, cluster,
[PSS-2] power two proportions, cluster,
[PSS-2] power oneproportion, cluster,
[PSS-2] power logrank, [R] ci, [R] kappa, [R] tabulate twoway,
[R] ztest
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Camacho, M. G., [TS] threshold
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[PSS-2] power oneproportion, cluster,
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Cardell, S., [CM] Intro 6, [CM] emrologit
Cardoso de Andrade, L., [D] codebook, [D] duplicates, [D] label
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Caria, M. P., [XT] xggee
Carle, A. C., [ME] mixed
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Carnes, B. A., [ST] streg
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Carpenter, B., [BAYES] bayesmh
Carroll, D., [META] meta
Carroll, J. B., [MV] rotatemat
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Carter, B. S., [ADAPT] gs
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Castillo, E., [MI] Intro substantive, [MI] mi impute chained
Castro, L. M., [IRT] irt 3pl
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Chalmers, T. C., [META] Intro, [META] meta, [META] meta summarize
Chaloner, K., [BAYES] Intro
Chamberlain, G., [R] gmm, [R] qreg, [XT] xtmlogit
Chang, I., [R] prtest
Chang, I.-M., [R] margins
Chang, M., [ADAPT] Intro
Chang, Y., [TS] sspace
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Chen, D., [LASSO] intro
Chen, X., [ADAPT] didregress
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Clarke, M. R. B., [MV] factor
Clarke, R. D., [R] poisson
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Cox, M. K., [BAYES] Intro
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[ST] streg postestimation, [ST] sts
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[MV] mprocrustes, [MV] Glossary
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[D] duplicates, [D] egen, [D] encode,
[D] expand, [D] fillin, [D] format, [D] icd,
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[G-2] graph twoway pclose, [G-2] graph twoway pclose,
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[TS] tsmooth shwinters, [U] 11.7 References,
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[ST] 13.13 References
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[SEM] Intro 4, [SEM] gsem, [ST] Survival analysis,
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Cui, J., [ST] stcox, [ST] streg, [XT] xtgee
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[R] margins, [R] reri, [XT] xtpoisson
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Dardanoni, V., [MI] Intro substantive
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de Castro, L., [R] ivqregress
de Cock, D., [BMA] bmapredict
de Finetti, B., [BAYES] Intro
de Groot, H. L. F., [META] Intro
de Hoyos, R. E., [XT] xtreg
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de Leeuw, J., [MV] ca postestimation
de Oliveira Piorelli, R., [ADAPT] gsdesign usermethod
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de Vroey, C., [ME] melogit postestimation
de Wolf, L., [CM] cmrologit
Deady, S., [R] betareg
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Feng, S., [MI] Intro substantive
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Feng, S. Y., [ME] mixed
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Ferdinandusse-Cornejo, J., [ERM] einreg
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Fyles, A., [ST] stcrreg

Gabriel, K. R., [MV] biplot

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Shungu, D. C., [ADAPT] gsdesign twomeans
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Stahl, D., [MV] cluster, [MV] cluster stop
Staiger, D. O., [R] ivregress postestimation
Stalpers, L. J. A., [ST] sts
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Steinberg, D., [CM] cmmixlogit, [CM] cmxtmixlogit
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[TS] dfactor, [TS] dfghs, [TS] irf create,
[TS] rolling, [TS] sspace, [TS] var intro,
[TS] var, [TS] var ivsvar, [TS] var svar,
[TS] vec intro, [TS] vec, [TS] vecrank,
[XT] xtofit, [XT] xtologit, [XT] xtoprobit,
[XT] xtpoisson, [XT] xtprobit, [XT] xtrreg,
[XT] xtstreg
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Storer, B. E., [ST] sterreg
Stork, D. G., [MV] cluster, [MV] cluster stop
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[R] estat gof, [R] glm, [R] lincom, [R] logistic,
[R] logistic postestimation, [R] logit, [R] logit
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[R] mlogit, [R] predictnl, [R] stepwise,
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[R] ivregress, [R] test, [XT] xt
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[META] meta data, [META] meta esize,
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[XT] xtreg
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[XT] xtgee
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trichopoulos, d., [R] Epitab
trikalinos, t. a., [META] meta bias
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Van Mechelen, I., [MI] Intro substantive, [MI] mi impute
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Wood, F. S., [R] Diagnostic plots
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[TS] mgarch dvech, [TS] prais, [XT] xt,
[XT] xtologit, [XT] xtcheckman, [XT] xivreg,
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[XT] xtpoisson, [XT] xtpbitobit, [XT] xtreg,
[XT] xtstreg

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[XT] xtreg, [XT] xtstreg

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[TS] tsmooth exponential, [TS] tsmooth
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[PSS-2] power twomeans, cluster,
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[R] mlogit, [R] ologit, [R] probit, [R] probit

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