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Combined subject table of contents

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

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- Basic data commands
- Creating and dropping variables
- Functions and expressions
- Strings
- Dates and times
- Loading, saving, importing, and exporting data
- Combining data
- Certifying data
- Reshaping datasets
- Labeling, display formats, and notes
- Changing and renaming variables
- Examining data
- File manipulation
- Miscellaneous data commands
- Multiple datasets in memory
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- Error messages
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- Internet
- Data types and memory
- Advanced utilities

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- Distributional graphs
- Item response theory graphs
- Lasso graphs
- Meta-analysis graphs
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- Quality control
- Regression diagnostic plots
- ROC analysis
- Smoothing and densities
- Survival-analysis graphs
- Time-series graphs
- More statistical graphs
- Editing
- Graph utilities
- Graph schemes
- Graph concepts

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- ANOVA and related
- Basic statistics
- Bayesian analysis
- Binary outcomes
- Categorical outcomes
- Censored and truncated regression models
- Choice models
- Cluster analysis
- Correspondence analysis
- Count outcomes
- Discriminant analysis
- Do-it-yourself generalized method of moments
- Do-it-yourself maximum likelihood estimation
- Dynamic stochastic general equilibrium models
- Endogenous covariates
- Epidemiology and related
- Estimation related
- Exact statistics
- Longitudinal data/panel data
- Meta-analysis
- Mixed models
- Multidimensional scaling and biplots
- Multilevel mixed-effects models
- Multiple imputation
- Multivariate analysis of variance and related techniques
- Nonlinear regression
- Nonparametric statistics
- Ordinal outcomes
- Other statistics
- Pharmacokinetic statistics
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- Quality control
- ROC analysis
- Rotation
- Sample selection models
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  - Simulation/resampling
- **Factor analysis and principal components**
  - Spatial autoregressive models
- **Finite mixture models**
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  - Structural equation modeling
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- **Item response theory**
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### Matrix commands
- **Basics**
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### Programming
- **Basics**
  - Projects
- **Program control**
  - Special-interest programming commands
- **Parsing and program arguments**
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  - Mata
- **Commonly used programming commands**

### Customizable tables and collections

### Automated document and report creation

### Interface features

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### Getting started

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<td>help</td>
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**Resources for learning and using Stata**

**Stata’s help and search facilities**

**Display help in Stata**

**Search Stata documentation and other resources**

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### Data manipulation and management

#### Basic data commands

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<td>describe</td>
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<td>edit</td>
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**Introduction to data management reference manual**

**Introduction to data management commands**

**Describe data contents**

**Quick reference for data types**

**Date and time values and variables**

**Obtaining and working with durations**

**Obtaining dates and date information from other dates**

**Date and time conversion from other software**

**Describe data in memory or in file**

**Browse or edit data with Data Editor**
| [D] | clear                        | Clear memory |
| [D] | compress                    | Compress data in memory |
| [D] | drop                        | Drop variables or observations |
| [D] | dyngen                      | Dynamically generate new values of variables |
| [D] | egen                        | Extensions to generate |
| [D] | frame copy                  | Make a copy of a frame |
| [D] | frame drop                  | Drop frame from memory |
| [D] | frame put                   | Copy selected variables or observations to a new frame |
| [D] | frames reset                | Drop all frames from memory |
| [D] | generate                    | Create or change contents of variable |
| [FN] | Mathematical functions      | |
| [FN] | Matrix functions            | |
| [R]  | orthog                      | Orthogonalize variables and compute orthogonal polynomials |
| [FN] | Programming functions       | |
| [FN] | Random-number functions     | |
| [FN] | Selecting time-span functions| |
| [FN] | Statistical functions       | |
| [FN] | String functions            | |
| [FN] | Trigonometric functions     | |

### Creating and dropping variables

| [D] | format                     | Set variables’ output format |
| [D] | frames                     | Data frames |
| [D] | frames intro               | Introduction to frames |
| [D] | insobs                     | Add or insert observations |
| [D] | inspect                    | Display simple summary of data’s attributes |
| [D] | label                      | Manipulate labels |
| [D] | list                       | List values of variables |
| [D] | Missing values             | Quick reference for missing values |
| [D] | rename                     | Rename variable |
| [D] | save                       | Save Stata dataset |
| [D] | sort                       | Sort data |
| [D] | use                        | Load Stata dataset |
| [D] | varmanage                  | Manage variable labels, formats, and other properties |

### Functions and expressions

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

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

Dates and times

[U]  Section 12.5.3 ................................................................. Date and time formats
[U]  Chapter 25 ............................................................... Working with dates and times
[D]  bcal .............................................................. Business calendar file manipulation
[D]  Datetime .......................................................... Date and time values and variables
[D]  Datetime business calendars .................................................. Business calendars
[D]  Datetime business calendars creation ...................................... Business calendars creation
[D]  Datetime conversion .................................................. Converting strings to Stata dates
[D]  Datetime display formats ........................................... Display formats for dates and times
[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

Loading, saving, importing, and exporting data

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

- Chapter 23: Combining datasets
- append: Append datasets
- mi append: Append mi data
- cross: Form every pairwise combination of two datasets
- frget: Copy variables from linked frame
- frlink: Link frames
- joinby: Form all pairwise combinations within groups
- merge: Merge datasets
- mi merge: Merge mi data

Certifying data

- assert: Verify truth of claim
- assertnested: Verify variables nested
- checksum: Calculate checksum of file
- _datasignature: Determine whether data have changed
- datasignature: Determine whether data have changed
- notes: Place notes in data
- signestimationsample: Determine whether the estimation sample has changed

Reshaping datasets

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

Labeling, display formats, and notes

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

[GS] Chapter 7 (GSM, GSU, GSW) ................................. Using the Variables Manager
[U] Chapter 26 .................................................. Working with categorical data and factor variables
[D] clonevar ................................................................. Clone existing variable
[D] dstring ................................................................. Convert string variables to numeric variables and vice versa
[D] dynegen ................................................................. 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] csummarize ........................................................ 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 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
[MI] mi describe .......................................................... Describe mi data
[MI] mi misstable ........................................................ Tabulate pattern of missing values
[D] pctile ................................................................. Create variable containing percentiles
[ST] stdescribe .......................................................... Describe survival-time data
[R] summarize ........................................................ Summary statistics
[SVD] svy: tabulate oneway ................................................... One-way tables for survey data
[SVD] svy: tabulate twoway ............................................ Two-way tables for survey data
[P] tabdisp ............................................................... Display tables
[R] table intro ............................................................ Introduction to 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
[R] tabulate, summarize() ............................................. One- and two-way tables of summary statistics
File manipulation

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

Miscellaneous data commands

- `corr2data` ......................................................... Create dataset with specified correlation structure
- `drawnorm` ......................................................... Draw sample from multivariate normal distribution
- `dydx` .............................................................. Calculate numeric derivatives and integrals
- `frame change` ..................................................... Change identity of current (working) frame
- `frame create` ..................................................... Create a new frame
- `frame prefix` ...................................................... The frame prefix command
- `frame pwf` ....................................................... Display name of current (working) frame
- `frame rename` ..................................................... Rename existing frame
- `frames dir` ....................................................... Display names of all frames in memory
- `icd` ................................................................. Introduction to ICD commands
- `icd10` ............................................................. ICD-10 diagnosis codes
- `icd10cm` .......................................................... ICD-10-CM diagnosis codes
- `icd10pcs` ........................................................ ICD-10-PCS procedure codes
- `icd9` ............................................................... ICD-9-CM diagnosis codes
- `icd9p` ............................................................. ICD-9-CM procedure codes
- `ipolate` ........................................................... Linearly interpolate (extrapolate) values
- `range` ............................................................. Generate numerical range
- `sample` ............................................................ Draw random sample
- `splitsample` ....................................................... Split data into random samples

Multiple datasets in memory

- `frame change` ..................................................... Change identity of current (working) frame
- `frame copy` ....................................................... Make a copy of a frame
- `frame create` ..................................................... Create a new frame
- `frame drop` ....................................................... Drop frame from memory
- `frame prefix` ...................................................... The frame prefix command
- `frame put` ....................................................... Copy selected variables or observations to a new frame
- `frame pwf` ....................................................... Display name of current (working) frame
- `frame rename` ..................................................... Rename existing frame
- `frames` ............................................................ Data frames
- `frames dir` ....................................................... Display names of all frames in memory
- `frames intro` ..................................................... Introduction to frames
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<th>Frames Reset</th>
<th>Drop All Frames From Memory</th>
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<td>FrGet</td>
<td>Copy Variables From Linked Frame</td>
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<td></td>
<td>FrLink</td>
<td>Link Frames</td>
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</table>

### 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` - The noupdate option
- `Styles` - Dataset styles
- `Workflow` - Suggested workflow

### Utilities

#### Basic Utilities

- `Chapter 13 (GSM, GSU, GSW)` - Using the Do-file Editor—automating Stata
- `Chapter 4` - Stata’s help and search facilities
- `Chapter 15` - Saving and printing output—log files
- `Chapter 16` - Do-files
- `About` - Display information about your Stata
- `By` - Repeat Stata command on subsets of the data
- `Cls` - Clear Results window
Combined subject table of contents

Data types and memory

[R] net search ........................................ Search the Internet for installable packages
[R] netio ................................................. Control Internet connections
[R] sj .................................................. Stata Journal and STB installation instructions
[R] ssc ............................................... Install and uninstall packages from SSC
[R] update ............................................. Check for official updates
[D] use ................................................. Load Stata dataset

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
[D] rmdir ............................................. Remove directory
[R] set .................................................. Overview of system parameters
[R] set cformat ...................................... Format settings for coefficient tables
[R] set_defaults .................................... Reset system parameters to original Stata defaults
[R] set emptycells ................................ Set what to do with empty cells in interactions
[R] set iter .......................................... Control iteration settings
[P] set locale_functions .......................... Specify default locale for functions
[P] set locale_ui ................................... Specify a localization package for the user interface
[R] set rng .......................................... Set which random-number generator (RNG) to use
[R] set rngstream ................................. Specify the stream for the stream random-number generator
[R] set seed ............................... Specify random-number seed and state

[R] set showbaselevels .............................. Display settings for coefficient tables

[P] set sortmethod .............................. Specify a sort method

[P] set sortrngstate .................................. Set the state of sort’s randomizer

[D] shell .................................................. Temporarily invoke operating system

[P] signestimationsample .................. Determine whether the estimation sample has changed

[P] smcl ........................................ Stata Markup and Control Language

[P] sysdir ........................................ Query and set system directories

[D] type ....................................................... Display contents of a file

[D] unicode collator .............................. Language-specific Unicode collators

[D] unicode convertfile ................................ Low-level file conversion between encodings

[D] unicode encoding ................................... Unicode encoding utilities

[D] unicode locale ...................................... Unicode locale utilities

[D] vl ..................................................... Manage variable lists

[D] vl create ......................................... Create and modify user-defined variable lists

[D] vl drop ........................................ Drop variable lists or variables from variable lists

[D] vl list ........................................ List contents of variable lists

[D] vl rebuild ........................................ Rebuild variable lists

[D] vl set ........................................ Set system-defined variable lists

[R] which ........................................ Display location of an ado-file

---

Graphics

Common graphs

[G-1] Graph intro ....................................... Introduction to graphics

[G-2] graph .................................................. The graph command

[G-2] graph bar ........................................... Bar charts

[G-2] graph box ............................................ Box plots

[G-2] graph close ........................................ Close Graph windows

[G-2] graph combine .................................... Combine multiple graphs

[G-2] graph copy ......................................... Copy graph in memory

[G-2] graph describe .................................. Describe contents of graph in memory or on disk

[G-2] graph dir .......................................... List names of graphs in memory and on disk

[G-2] graph display ..................................... Display graph stored in memory

[G-2] graph dot ............................................ Dot charts (summary statistics)

[G-2] graph drop ........................................ Drop graphs from memory

[G-2] graph export ...................................... Export current graph

[G-2] graph manipulation ................................ Graph manipulation commands

[G-2] graph matrix ...................................... Matrix graphs

[G-2] graph other ...................................... Other graphics commands

[G-2] graph pie .......................................... Pie charts

[G-2] graph play ......................................... Apply edits from a recording on current graph

[G-2] graph print ....................................... Print a graph

[G-2] graph query ....................................... List available schemes and styles

[G-2] graph rename ..................................... Rename graph in memory

[G-2] graph replay ...................................... Replay multiple graphs

[G-2] graph save ....................................... Save graph to disk

[G-2] graph set .......................................... Set graphics options

[G-2] graph twoway ...................................... Twoway graphs

[G-2] graph twoway area ................................ Twoway line plot with area shading
Distributional graphs

[R]  cumul ........................................... Cumulative distribution
[R]  Diagnostic plots ................................ Distributional diagnostic plots
[R]  dotplot ........................................... Comparative distribution dotplots
[R]  histogram ....................................... Histograms for continuous and categorical variables
[R]  ladder ........................................... Ladder of powers
[R]  spikeplot ....................................... Spike plots and rootograms
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<td>Meta-analysis graphs</td>
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<td>Multivariate graphs</td>
<td>biplot, ca postestimation, ca postestimation plots, cluster dendrogram, mca postestimation, mca postestimation plots, mds postestimation, mds postestimation plots, procrustes postestimation, scoreplot, screeplot</td>
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<td>Regression diagnostic plots</td>
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<td>ROC analysis</td>
<td>estat classification, estat gof, logistic postestimation, lroc, lsens, roccomp, rocfit postestimation</td>
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</table>
### Smoothing and densities
- **R** rocregplot: Plot marginal and covariate-specific ROC curves after rocreg.
- **R** roctab: Nonparametric ROC analysis.
- **R** kdensity: Univariate kernel density estimation.
- **R** lowess: Lowess smoothing.
- **R** lpoly: Kernel-weighted local polynomial smoothing.

### Survival-analysis graphs
- **ST** ltable: Life tables for survival data.
- **ST** stci: Confidence intervals for means and percentiles of survival time.
- **ST** stcox PH-assumption tests: Tests of proportional-hazards assumption after stcox.
- **ST** stcurve: Plot the survivor or related function after streg, stcox, and others.
- **ST** stintcox PH-assumption plots: Plots of proportional-hazards assumption after stintcox.
- **ST** strate: Tabulate failure rates and rate ratios.
- **ST** sts graph: Graph the survivor or related function.

### Time-series graphs
- **BAYES** bayesirf graph: Graphs of Bayesian IRFs, dynamic-multiplier functions, and FEVDs.
- **TS** corrgram: Tabulate and graph autocorrelations.
- **TS** cumsp: 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 VECM estimates.
- **TS** wntestb: Bartlett’s periodogram-based test for white noise.
- **TS** xcorr: Cross-correlogram for bivariate time series.

### More statistical graphs
- **BAYES** bayesgraph: Graphical summaries and convergence diagnostics.
- **PSS-3** ciwidth, graph: Graph results from the ciwidth command.
- **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.
- **PSS-2** power, graph: Graph results from the power command.
- **R** stem: Stem-and-leaf displays.
- **TE** tebalance box: Covariate balance box.
- **TE** teoverlap: Overlap plots.
- **XT** xtline: Panel-data line plots.
Editing

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

Graph utilities

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

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

Graph concepts

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

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 model
[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
# Combined subject table of contents

## Bayesian analysis

- **Intro** (Page 27.33) Introduction to Bayesian analysis
- **Bayesian commands** Introduction to commands for Bayesian analysis
- **Bayesian estimation** Bayesian estimation commands
- **Bayesian postestimation** Postestimation tools for bayesmh and the bayes prefix
- **bayes** Bayesian regression models using the bayes prefix
- **bayes: betareg** Bayesian beta regression
- **bayes: binreg** Bayesian generalized linear models: Extensions to the binomial family
- **bayes: biprobit** Bayesian bivariate probit regression
- **bayes: clogit** Bayesian conditional logistic regression
- **bayes: cloglog** Bayesian complementary log–log regression
- **bayes: dsge** Bayesian linear dynamic stochastic general equilibrium models
- **bayes: dsge postestimation** Postestimation tools for bayes: dsge and bayes: dsge
- **bayes: dsgenl** Bayesian nonlinear dynamic stochastic general equilibrium models
- **bayes: fracreg** Bayesian fractional response regression
- **bayes: glm** Bayesian generalized linear models
- **bayes: gnreg** Bayesian generalized negative binomial regression
- **bayes: heckman** Bayesian Heckman selection model
- **bayes: heckoprobit** Bayesian ordered probit model with sample selection
- **bayes: heckprobit** Bayesian probit model with sample selection
- **bayes: hetoprobit** Bayesian heteroskedastic ordered probit regression
- **bayes: hetprobit** Bayesian heteroskedastic probit regression
- **bayes: hetregress** Bayesian heteroskedastic linear regression

### Bayesian commands

- **mvtest** Multivariate tests
- **oneway** One-way analysis of variance
- **proportion** Estimate proportions
- **prtest** Tests of proportions
- **pwmean** Pairwise comparisons of means
- **ranksum** Equality tests on unmatched data
- **ratio** Estimate ratios
- **regress** Linear regression
- **sdtest** Variance-comparison tests
- **signrank** Equality tests on matched data
- **statsby** Collect statistics for a command across a by list
- **summarize** Summary statistics
- **table intro** Introduction to tables of frequencies, summaries, and command results
- **table** Table of frequencies, summaries, and command results
- **table hypothesis tests** Table of hypothesis tests
- **table multiway** Multiway tables
- **table oneway** One-way tabulation
- **table summary** Table of summary statistics
- **table twoway** Two-way tabulation
- **tabstat** Compact table of summary statistics
- **tabulate oneway** One-way table of frequencies
- **tabulate twoway** Two-way table of frequencies
- **tabulate, summarize()** One- and two-way tables of summary statistics
- **total** Estimate totals
- **ttest** z tests (mean-comparison tests)
- **ztest** t tests (mean-comparison tests, known variance)
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**Binary outcomes**

- **U** Chapter 20 Estimation and postestimation commands
- **U** Section 27.4 Binary outcomes
- **[BAYES]** Bayesian estimation
- **[R]** `binreg` Generalized linear models: Extensions to the binomial family
- **[R]** `biprobit` Bivariate probit regression
- **[R]** `cloglog` Complementary log–log regression
- **[LASSO]** `dslogit` Double-selection lasso logistic regression
- **[ERM]** `eprobit` Extended probit regression
- **[TE]** `etefffects` Endogenous treatment-effects estimation
- **[R]** `exlogistic` Exact logistic regression
- **[FMM]** `fmm estimation` Fitting finite mixture models
- **[R]** `glm` Generalized linear models
- **[R]** `heckprobit` Probit model with sample selection
- **[R]** `hetprobit` Heteroskedastic probit model
- **[IRT]** `irt 1pl` One-parameter logistic model
- **[IRT]** `irt 2pl` Two-parameter logistic model
- **[IRT]** `irt 3pl` Three-parameter logistic model
- **[IRT]** `irt hybrid` Hybrid IRT models
- **[R]** `ivprobit` Probit model with continuous endogenous covariates
- **[R]** `logistic` Logistic regression, reporting odds ratios
- **[R]** `logit` Logistic regression, reporting coefficients
- **[ME]** `mecloglog` Multilevel mixed-effects complementary log–log regression
- **[ME]** `melogit` Multilevel mixed-effects logistic regression
- **[ME]** `meprobit` Multilevel mixed-effects probit regression
- **[LASSO]** `pologit` Partialling-out lasso logistic regression
- **[R]** `probit` Probit regression
- **[R]** `rocfit` Receiver operating characteristic (ROC) regression
- **[R]** `scobit` Skewed logistic regression
- **[TE]** `teffects aipw` Augmented inverse-probability weighting
- **[TE]** `teffects ipw` Inverse-probability weighting
- **[TE]** `teffects ipwra` Inverse-probability-weighted regression adjustment
- **[TE]** `teffects nmatch` Nearest-neighbor matching
- **[TE]** `teffects psmatch` Propensity-score matching
Censored and truncated regression models

- treatment-effects ra: Regression adjustment
- telasso: Treatment-effects estimation using lasso
- xpoilogit: Cross-fit partialing-out lasso logistic regression
- xtcloglog: Random-effects and population-averaged cloglog models
- xteprobit: Extended random-effects probit regression
- xtlogit: Fixed-effects, random-effects, and population-averaged logit models
- xtprobit: Random-effects and population-averaged probit models

Categorical outcomes

- Chapter 20: Estimation and postestimation commands
- Section 27.6: Ordinal outcomes
- Section 27.7: Categorical outcomes
- Bayes: Bayesian estimation commands
- clogit: Conditional (fixed-effects) logistic regression
- cmclogit: Conditional logit (McFadden’s) choice model
- cmmixlogit: Mixed logit choice model
- cmmprobit: Multinomial probit choice model
- cmxtnlogit: Panel-data mixed logit choice model
- fmm estimation: Fitting finite mixture models
- irt: Nominal response model
- mlogit: Multinomial (polytomous) logistic regression
- mprobit: Multinomial probit regression
- nlogit: Nested logit regression
- xtmlogit: Fixed-effects and random-effects multinomial logit models

Censored and truncated regression models

- churdle: Cragg hurdle regression
- cpoisson: Censored Poisson regression
- eintreg: Extended interval regression
- heckman: Heckman selection model
- heckoprobit: Ordered probit model with sample selection
- heckprobit: Probit model with sample selection
- intreg: Interval regression
- meintreg: Multilevel mixed-effects interval regression
- mestreg: Multilevel mixed-effects parametric survival models
- metobit: Multilevel mixed-effects tobit regression
- stintcox: Cox proportional hazards model for interval-censored survival-time data
- stintreg: Parametric models for interval-censored survival-time data
- streg: Parametric survival models
- stteffects: Treatment-effects estimation for observational survival-time data
- tnreg: Truncated negative binomial regression
- tobit: Tobit regression
- tpoisson: Truncated Poisson regression
- truncreg: Truncated regression
- xteintreg: Extended random-effects interval regression
- xtheckman: Random-effects regression with sample selection
- xtinreg: Random-effects interval-data regression models
- xstreg: Random-effects parametric survival models
- xttobit: Random-effects tobit models
Choice models

[CM] Intro 1 Description of available choice models

[CM] Intro 2 Evaluation of the models

[CM] Intro 3 Comparison of the models with each other

[CM] Intro 4 Estimation of the models

[CM] Intro 5 Random utility models, assumptions, and estimation

[CM] Intro 6 Models for rank-ordered alternatives

[CM] Intro 7 Models for panel data

[CM] Intro 8 Random utility models, assumptions, and estimation

Cluster analysis

[MV] Multivariate Introduction to multivariate commands

[MV] cluster dendrogram Dendrograms for hierarchical cluster analysis

[MV] cluster kmeans and kmedians Kmeans and kmedians cluster analysis

[MV] cluster linkage Hierarchical cluster analysis

[MV] cluster notes Cluster analysis notes

[MV] cluster programming subroutines Add cluster-analysis routines

[MV] cluster programming utilities Cluster-analysis programming utilities

[MV] cluster stop Cluster-analysis stopping rules

[MV] cluster utility List, rename, use, and drop cluster analyses

[MV] clustermat Introduction to clustermat commands

[MV] measure_option Option for similarity and dissimilarity measures

Correspondence analysis

[MV] ca Simple correspondence analysis

[MV] mca Multiple and joint correspondence analysis

Count outcomes

[U] Chapter 20 Estimation and postestimation commands

[U] Section 27.8 Count outcomes

[U] Section 27.15.3 Discrete outcomes with panel data
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**Do-it-yourself generalized method of moments**

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

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Also see *Multilevel mixed-effects models*, *Survival analysis*, *Structural equation modeling*, and *Treatment effects*. 

[Also see] Multilevel mixed-effects models, Survival analysis, Structural equation modeling, and Treatment effects.
## Estimation related

- **[R]** BIC note .......................... Calculating and interpreting BIC
- **[R]** constraint ...................... Define and list constraints
- **[R]** `eform_option` ................. Displaying exponentiated coefficients
- **[R]** Estimation options ............. Estimation options
- **[R]** fp .................................. Fractional polynomial regression
- **[R]** Maximize ......................... Details of iterative maximization
- **[R]** mfp ................................ Multivariable fractional polynomial models
- **[R]** mkspline ......................... Linear and restricted cubic spline construction
- **[R]** stepwise ......................... Stepwise estimation
- **[R]** `vce_option` ..................... Variance estimators
- **[XT]** `vce_options` ................. Variance estimators

## Exact statistics

- **[U]** Section 27.8 ..................... Count outcomes
- **[U]** Section 27.11 .................... Exact estimators
- **[R]** bitest .................. Binomial probability test
- **[R]** centile ................ Report centile and confidence interval
- **[R]** `ci` .................... Confidence intervals for means, proportions, and variances
- **[R]** dstdize ................ Direct and indirect standardization
- **[R]** Epitab .................. Tables for epidemiologists
- **[R]** `exlogistic` ........ Exact logistic regression
- **[R]** expoisson ................. Exact Poisson regression
- **[R]** ksmirnov ................ Kolmogorov–Smirnov equality-of-distributions test
- **[R]** loneway ................ Large one-way ANOVA, random effects, and reliability
- **[PSS-2]** power oneproportion .... Power analysis for a one-sample proportion test
- **[R]** ranksum ................ Equality tests on unmatched data
- **[R]** roctab ................ Nonparametric ROC analysis
- **[R]** symmetry ........ Symmetry and marginal homogeneity tests
- **[R]** tabulate twoway ........ Two-way table of frequencies
- **[R]** tetrachoric ................ Tetrachoric correlations for binary variables

## Extended regression models

- **[ERM]** ERM options ................ Extended regression model options
- **[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
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- **[ERM]** eprobit postestimation .... Postestimation tools for eprobit and xteoprobit
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### Generalized linear models

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### Indicator and categorical variables

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<td>Saving and restoring estimates in memory and on disk</td>
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## Latent class models

- **[U]** Section 27.25
- **[SEM]** `estat lcmean`
- **[SEM]** `estat lcprob`
- **[SEM]** Example 50g
- **[SEM]** Example 52g
- **[SEM]** Example 53g
- **[SEM]** Intro 2
- **[SEM]** Intro 5

### Linear regression and related

- **[U]** Chapter 20
- **[U]** Chapter 27
- **[R]** `areg`
- **[BAYES]** Bayesian estimation
- **[R]** `cnsreg`
- **[R]** `constraint`
- **[TE]** `didregress`
- **[LASSO]** `dsregress`
- **[R]** `eivreg`
- **[ERM]** `eregress`
- **[TE]** `etpoisson`
- **[TE]** `etregress`
- **[FMM]** `fmm estimation`
- **[R]** `fp`
- **[R]** `frontier`
- **[R]** `glm`
- **[R]** `heckman`
- **[R]** `hetregress`
- **[R]** `ivpoisson`
- **[R]** `ivregress`
- **[R]** `ivtobit`
- **[R]** `lpoly`
- **[ME]** `meglm`
- **[META]** `meta mvregress`
- **[META]** `meta regress`
- **[R]** `mfp`
- **[ME]** `mixed`
- **[MV]** `mvreg`
- **[R]** `nestreg`
- **[TS]** `newey`
- **[LASSO]** `poivregress`
- **[LASSO]** `poregress`
Logistic and probit regression

Chapter 20................................. Overview of Stata estimation commands
Chapter 27................................. Estimation and postestimation commands
biprobit................................. Bivariate probit regression
clogit.................................... Conditional (fixed-effects) logistic regression
cloglog.................................. Complementary log–log regression
cmlogit................................. Conditional logit (McFadden’s) choice model
cmmixlogit.............................. Mixed logit choice model
cmmprobit.............................. Multinomial probit choice model
cmrologit.............................. Rank-ordered logit choice model
cmroprobit............................ Rank-ordered probit choice model
cmxtmixlogit.......................... Panel-data mixed logit choice model
dslogit.................................. Double-selection lasso logistic regression
eoprobit................................. Extended ordered probit regression
eprobit.................................. Extended probit regression
exlogistic.............................. Exact logistic regression
heckprobit............................. Ordered probit model with sample selection
heckprobit............................. Probit model with sample selection
xproreg................................. Cross-fit partialing-out lasso linear regression
xproreg................................. Cross-fit partialing-out lasso instrumental-variables regression
xtabond................................. Arellano–Bond linear dynamic panel-data estimation
xtdidregress........................... Fixed-effects difference-in-differences estimation
xtdpd.................................... Linear dynamic panel-data estimation
xtdpdys................................. Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation
xteregress............................. Extended random-effects linear regression
xtgee...................................... Fit population-averaged panel-data models by using GEE
xtgls..................................... Fit panel-data models by using GLS
xtheckman.............................. Hausman–Taylor estimator for error-components models
xtivreg................................. Instrumental variables and two-stage least squares for panel-data models
xtreg................................. Fixed-, between-, and random-effects and population-averaged linear models
xtregar................................. Fixed- and random-effects linear models with an AR(1) disturbance
xtstreg................................. Random-effects parametric survival models
### Longitudinal data/panel data

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<td>Two-parameter logistic model</td>
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<td>Extended random-effects probit regression</td>
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<td>xteegee</td>
<td>Fit population-averaged panel-data models by using GEE</td>
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<td>Fixed-effects and random-effects multinomial logit models</td>
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<td>Zero-inflated ordered probit regression</td>
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### 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
- eoprobit: Extended ordered probit regression
- eprobit: Extended probit regression
- eregress: Extended linear regression
- meologit: Multilevel mixed-effects logistic regression
- meoprobit: Multilevel mixed-effects ordered probit regression
- mepoisson: Multilevel mixed-effects Poisson regression
- meprobit: Multilevel mixed-effects probit regression
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<td>Introduction to xt commands</td>
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<td>xtbond</td>
<td>Arellano–Bond linear dynamic panel-data estimation</td>
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<td>Random-effects and population-averaged cloglog models</td>
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<td>Arellano–Bover/Blundell–Bond linear dynamic panel-data estimation</td>
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<td>Fit panel-data models by using GLS</td>
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<td>xtab</td>
<td>Random-effects and population-averaged Poisson models</td>
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Meta-analysis

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<td>Tests for small-study effects in meta-analysis</td>
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<td>Declare meta-analysis data</td>
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Multidimensional scaling and biplots

Mixed models

Multidimensional scaling and biplots
## Multilevel mixed-effects models

- **Section 27.16** Multilevel mixed-effects models
- **Bayesian estimation** Bayesian estimation commands
- **me** Introduction to multilevel mixed-effects models
- **mecloglog** Multilevel mixed-effects complementary log–log regression
- **meglm** Multilevel mixed-effects generalized linear model
- **meintreg** Multilevel mixed-effects interval regression
- **melogit** Multilevel mixed-effects logistic regression
- **menbreg** Multilevel mixed-effects negative binomial regression
- **menl** Nonlinear mixed-effects regression
- **meologit** Multilevel mixed-effects ordered logistic regression
- **meprobit** Multilevel mixed-effects ordered probit regression
- **mepoisson** Multilevel mixed-effects Poisson regression
- **menl** Multilevel mixed-effects parametric survival models
- **metobit** Multilevel mixed-effects tobit regression
- **mixed** Multilevel mixed-effects linear regression

## Multiple imputation

- **Section 27.31** Multiple imputation
- **Intro** Introduction to mi
- **Intro substantive** Introduction to multiple-imputation analysis
- **Estimation** Estimation commands for use with mi estimate
- **mi estimate** Estimation using multiple imputations
- **mi estimate using** Estimation using previously saved estimation results
- **mi estimate postestimation** Postestimation tools for mi estimate
- **mi impute** Impute missing values
- **mi impute chained** Impute missing values using chained equations
- **mi impute intreg** Impute using interval regression
- **mi impute logit** Impute using logistic regression
- **mi impute mlogit** Impute using multinomial logistic regression
- **mi impute monotone** Impute missing values in monotone data
- **mi impute mvn** Impute using multivariate normal regression
- **mi impute nbreg** Impute using negative binomial regression
- **mi impute ologit** Impute using ordered logistic regression
- **mi impute pmm** Impute using predictive mean matching
- **mi impute poisson** Impute using Poisson regression
- **mi impute regress** Impute using linear regression
- **mi impute truncreg** Impute using truncated regression
- **mi impute usermethod** User-defined imputation methods
- **mi test** Test hypotheses after mi estimate

## Multivariate analysis of variance and related techniques

- **Section 27.22** Multivariate analysis
- **canon** Canonical correlations
- **hotelling** Hotelling’s $T^2$ generalized means test
Nonlinear regression

[R] boxcox ............................................. Box–Cox regression models
[ME] mnl .................................................. Nonlinear mixed-effects regression
[R] nl ..................................................... Nonlinear least-squares estimation
[R] nlsur ................................................ Estimation of nonlinear systems of equations

Nonparametric statistics

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

Ordinal outcomes

[U] Chapter 20 ........................................... Estimation and postestimation commands
[BAYES] Bayesian estimation ................................ Bayesian estimation commands
[CM] cmrologit ........................................... Rank-ordered logit choice model
[CM] cmprobit ......................................... Rank-ordered probit choice model
[ERM] eoprobit ........................................... Extended ordered probit regression
[FMM] fmm estimation ................................... Fitting finite mixture models
[R] heckoprobit ........................................ Ordered probit model with sample selection
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**Other statistics**

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<td>Report centile and confidence interval</td>
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<td>range</td>
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**Pharmacokinetic statistics**

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<td>pkcross</td>
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<td>pkequiv</td>
<td>Perform bioequivalence tests</td>
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<td>Calculate pharmacokinetic measures</td>
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**Power, precision, and sample size**

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<td>Introduction to precision and sample-size analysis for confidence intervals</td>
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<td>Intro (power)</td>
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[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
[PSS-2] power onemean, cluster .... Power analysis for a one-sample mean test, CRD
[PSS-2] power oneproportion ...... Power analysis for a one-sample proportion 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 pairedmeans ...... Power analysis for a two-sample paired-means test
[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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[PSS-2] power trend ................ Power analysis for the Cochran–Armitage trend test
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[PSS-2] power twoproportions ...... Power analysis for a two-sample proportions test
[PSS-2] power twoproportions, cluster Power analysis for a two-sample proportions test, CRD
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[PSS-2] rocrocfitpostestimation Test of equality of ROC areas
[PSS-2] rocrocregpostestimation Postestimation tools for rocfit
[PSS-2] rocrocregplot ............ Plot marginal and covariate-specific ROC curves after rocreg
[PSS-4] Unbalanced designs .......... Specifications for unbalanced designs

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

ROC analysis
[U] Section 27.4.3 ........................................ ROC analysis
[R] roc ........................................ Receiver operating characteristic (ROC) analysis
[R] rocrocrocfitpostestimation Parametric ROC models
[R] rocrocregpostestimation Postestimation tools for rocfit
[R] rocrocregplot ............ Plot marginal and covariate-specific ROC curves after rocreg
[R] rocrocregpostestimation Nonparametric ROC analysis
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[MV] procrustes ............................... Procrustes transformation
[MV] rotate ............................... Orthogonal and oblique rotations after factor and pca
[MV] rotatemat ............................... Orthogonal and oblique rotations of a Stata matrix

Sample selection models

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[ERM] eoprobit ............................... Extended ordered probit regression
[ERM] eprobit ............................... Extended probit regression
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[TE] etpoisson ............................... Poisson regression with endogenous treatment effects
[TE] etregress ............................... Linear regression with endogenous treatment effects
[R] heckman ............................... Heckman selection model
[R] heckoprobit ............................... Ordered probit model with sample selection
[R] heckpoisson ............................... Poisson regression with sample selection
[R] heckprob ............................... Probit model with sample selection
[XT] xteintreg ............................... Extended random-effects interval regression
[XT] xteoprobit ............................... Extended random-effects ordered probit regression
[XT] xteprobit ............................... Extended random-effects probit regression
[XT] xtegrass ............................... Extended random-effects linear regression
[XT] xtheckman ............................... Random-effects regression with sample selection

Simulation/resampling

[R] bootstrap ............................... Bootstrap sampling and estimation
[R] bsample ............................... Sampling with replacement
[R] jackknife ............................... Jackknife estimation
[R] permute ............................... Monte Carlo permutation tests
[R] simulate ............................... Monte Carlo simulations

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[U] Section 27.19 ............................... Spatial autoregressive models
[SP] Intro ............................... Introduction to spatial data and SAR models
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[SP] Intro 2 ............................... The W matrix
[SP] Intro 3 ............................... Preparing data for analysis
[SP] Intro 4 ............................... Preparing data: Data with shapefiles
[SP] Intro 5 ............................... Preparing data: Data containing locations (no shapefiles)
[SP] Intro 6 ............................... Preparing data: Data without shapefiles or locations
[SP] Intro 7 ............................... Example from start to finish
[SP] Intro 8 ............................... The Sp estimation commands
[SP] estat moran ............................... Moran’s test of residual correlation with nearby residuals
[SP] grmap ............................... Graph choropleth maps
[SP] spbalance ............................... Make panel data strongly balanced
[SP] spcompress ............................... Compress Stata-format shapefile
[SP] spdistance ............................... Calculator for distance between places
[SP] spgenerate ............................... Generate variables containing spatial lags
[SP] spivregress ............................... Spatial autoregressive models with endogenous covariates
Standard postestimation tests, tables, and other analyses

[U] Section 13.5. Accessing coefficients and standard errors
[U] Chapter 20. Estimation and postestimation commands
[R] contrast. Contrasts and linear hypothesis tests after estimation
[R] correlate. Correlations of variables
[R] estat. Postestimation statistics
[R] estat ic. Display information criteria
[R] estat summarize. Summarize estimation sample
[R] estat vce. Display covariance matrix estimates
[R] estimates. Save and manipulate estimation results
[R] estimates describe. Describe estimation results
[R] estimates for. Repeat postestimation command across models
[R] estimates notes. Add notes to estimation results
[R] estimates replay. Redisplay estimation results
[R] estimates save. Save and use estimation results
[R] estimates 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
[TS] forecast. Econometric model forecasting
[TS] forecast adjust. Adjust variables to produce alternative forecasts
[TS] forecast clear. Clear current model from memory
[TS] forecast coefvector. Specify an equation via a coefficient vector
[TS] forecast create. Create a new forecast model
[TS] forecast describe. Describe features of the forecast model
[TS] forecast drop. Drop forecast variables
[TS] forecast estimates. Add estimation results to a forecast model
[TS] forecast exogenous. Declare exogenous variables
[TS] forecast identity. Add an identity to a forecast model
[TS] forecast list. List forecast commands composing current model

[SP] spmatrix. Categorical guide to the spmatrix command
[SP] spmatrix copy. Copy spatial weighting matrix stored in memory
[SP] spmatrix create. Create standard weighting matrices
[SP] spmatrix drop. List and delete weighting matrices stored in memory
[SP] spmatrix export. Export weighting matrix to text file
[SP] spmatrix fromdata. Create custom weighting matrix from data
[SP] spmatrix import. Import weighting matrix from text file
[SP] spmatrix matafromsp. Copy weighting matrix to Mata
[SP] spmatrix normalize. Normalize weighting matrix
[SP] spmatrix note. Put note on weighting matrix, or display it
[SP] spmatrix save. Save spatial weighting matrix to file
[SP] spmatrix spfrommata. Copy Mata matrix to Sp
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[SP] spmatrix use. Load spatial weighting matrix from file
[SP] spmatrix userdefined. Create custom weighting matrix
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Structural equation modeling

- **Section 27.24** Structural equation modeling (SEM)
- **Builder** SEM Builder
- **Builder, generalized** SEM Builder for generalized models
- **Intro 1** Introduction
- **Intro 2** Learning the language: Path diagrams and command language
- **Intro 3** Learning the language: Factor-variable notation (gsem only)
- **Intro 4** Substantive concepts
- **Intro 5** Tour of models
- **Intro 6** Comparing groups
- **Intro 7** Postestimation tests and predictions
- **Intro 8** Robust and clustered standard errors
- **Intro 9** Standard errors, the full story
- **Intro 10** Fitting models with survey data
- **Intro 11** Fitting models with summary statistics data (sem only)
- **Intro 12** Convergence problems and how to solve them
- **estat eform** Display exponentiated coefficients
- **estat eqgof** Equation-level goodness-of-fit statistics
- **estat eqtest** Equation-level tests that all coefficients are zero
- **estat framework** Display estimation results in modeling framework
- **estat ggof** Group-level goodness-of-fit statistics
- **estat ginv** Tests for invariance of parameters across groups
- **estat gof** Goodness-of-fit statistics
- **estat lgof** Latent class goodness-of-fit statistics
- **estat lmean** Latent class marginal means
- **estat lprob** Latent class marginal probabilities
- **estat mind** Modification indices
- **estat residuals** Display mean and covariance residuals
- **estat scorelib** Score tests
- **estat sd** Display variance components as standard deviations and correlations
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### Survey data

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Survival analysis

Chapter 20 Estimation and postestimation commands
Section 27.15.5 Survival models with panel data
Section 27.17 Survival analysis models
Section 27.20 Treatment-effects models
Section 27.32 Power, precision, and sample-size analysis
Introduction to survival analysis
Bayesian parametric survival models
Count-time data
Declare data to be count-time data
Convert count-time data to survival-time data
Discrete-time survival analysis
Finite mixtures of parametric survival models
Life tables for survival data
Multilevel mixed-effects parametric survival models
Convert snapshot data to time-span data
Survival-time data
Survival analysis subroutines for programmers
Form baseline dataset
Confidence intervals for means and percentiles of survival time
Cox proportional hazards model
Competing-risks regression
Plot the survivor or related function after streg, stcox, and others
Describe survival-time data
Stepwise estimation

Direct standardization . . . . . . . . . . . . . . . . . . Direct standardization of means, proportions, and ratios
Postestimation statistics for survey data
Example 7 Table of regression results using survey data
More options for jackknife variance estimation
Poststratification for survey data
Robust variance estimates
More options for SDR variance estimation
Subpopulation estimation for survey data
The survey prefix command
Bootstrap for survey data
Balanced repeated replication for survey data
Estimation commands for survey data
Jackknife estimation for survey data
Postestimation tools for svy
Successive difference replication for survey data
One-way tables for survey data
Two-way tables for survey data
Describe survey data
Table of regression results using survey data
More options for jackknife variance estimation

Adjust survivor and related functions for covariates at specific values
 Declare mi data to be svy, st, ts, xt, etc.
Variance estimation for survey data

options robust . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Robust variance estimates
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<td><code>stgen</code></td>
<td>Generate variables reflecting entire histories</td>
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<td><code>stintcox</code></td>
<td>Cox proportional hazards model for interval-censored survival-time data</td>
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<td>Report incidence-rate comparison</td>
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<tr>
<td><code>stptime</code></td>
<td>Calculate person-time, incidence rates, and SMR</td>
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<td><code>sttobit</code></td>
<td>Tabulate failure rates and rate ratios</td>
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<tr>
<td><code>sts test</code></td>
<td>Test equality of survivor functions</td>
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<td><code>sts graph</code></td>
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<td><code>sts</code></td>
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<tr>
<td><code>mi XXXset</code></td>
<td>Declare mi data to be svy, st, ts, xt, etc.</td>
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<td><code>stteffects ipwra</code></td>
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<td>Survival-time regression adjustment</td>
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<td><code>sttobit</code></td>
<td>Convert survival-time data to count-time data</td>
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<tr>
<td><code>stvary</code></td>
<td>Generate variables reflecting entire histories</td>
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Also see *Power, precision, and sample size.*

### Time series, multivariate

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[TS] corrgram .................... Tabulate and graph autocorrelations
[TS] cumsp ........................... Graph cumulative spectral distribution
[TS] dfgls .......................... DF-GLS unit-root test
[TS] dfuller ......................... Augmented Dickey–Fuller unit-root test
[TS] estat acplot ............ Plot parametric autocorrelation and autocovariance functions
[TS] estat aroots ........... Check the stability condition of ARIMA estimates
[TS] estat sbcumsum ........ Cumulative sum test for parameter stability
[TS] estat skbknown .......... Test for a structural break with a known break date
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[TS] forecast estimates ........ Add estimation results to a forecast model
[TS] forecast exogenous ....... Declare exogenous variables
[TS] forecast identity .......... Add an identity to a forecast model
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[TS] rolling .......................... Rolling-window and recursive estimation
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[TS] tsfilter bw ................... Butterworth time-series filter
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[TS] tsfilter hp ..................... Hodrick–Prescott time-series filter
[TS] tsline ........................... Time-series line plots
[TS] tsreport ........................ Report time-series aspects of a dataset or estimation sample
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[TS] tsset .......................... Declare data to be time-series data
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[TS] tssmooth exp ........................ Single-exponential smoothing
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[TS] tssmooth ma ........................ Moving-average filter
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[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

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[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

Programming

Basics

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[U] Section 18.3 .......................................................... Macros
[U] Section 18.11 ......................................................... Ado-files
[P] comments ........................................ Add comments to programs
[P] fvexpand ............................................. Expand factor varlists
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[P] return .................................................... Return stored results
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Mata


Customizable tables and collections

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-[P] Dialog programming Dialog programming
-[R] doedit Edit do-files and other text files
-[D] edit Browse or edit data with Data Editor
-[P] set locale_ui Specify a localization package for the user interface
-[P] sleep Pause for a specified time
-[P] smcl Stata Markup and Control Language
-[D] unicode locale Unicode locale utilities
-[D] varmanage Manage variable labels, formats, and other properties
-[P] viewsource View source code
-[P] window fopen Display open/save dialog box
-[P] window manage Manage window characteristics
-[P] window menu Create menus
-[P] window programming Programming menus and windows
-[P] window push Copy command into History window
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<td>Acronym</td>
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STS  structural time series
SUR  seemingly unrelated regression
SURE seemingly unrelated regression estimation
SUTVA  stable unit treatment value assumption
SVAR structural vector autoregressive model
SVD  singular value decomposition
SVG scalable vector graphics
TACC treatment-arm continuity correction
TAR  target acceptance rate
TARCH threshold ARCH
TCC test characteristic curve
TDT transmission/disequilibrium test
TIF test information function
TIFF tagged image file format
TLI  Tucker–Lewis index
TSS  total sum of squares

UCA Unicode Collation Algorithm
UCM unobserved-components model
UI  user interface
UTF-8 Universal character set + Transformation Format—8-bit

VAR vector autoregressive model
VAR(1) first-order vector autoregressive
VARMA vector autoregressive moving average
VARMA(1,1) first-order vector autoregressive moving average
VCE variance–covariance estimate
VECM vector error-correction model
VIF variance inflation factor

WLC worst linear combination
WLF worst linear function
WLS  weighted least squares
WNLS weighted nonlinear least squares
wrt with respect to

XML Extensible Markup Language

ZINB zero-inflated negative binomial
ZIOL zero-inflated ordered logit
ZIOP zero-inflated ordered probit
ZIP zero-inflated Poisson
ZTNB zero-truncated negative binomial
ZTP zero-truncated Poisson
Vignette index

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Aitken, A. C. (1895–1967), [R] reg3
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Bonferroni, C. E. (1892–1960), [R] correlate
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Breusch, T. S. (1953– ), [R] regress postestimation time series
Brier, G. W. (1913–1998), [R] brier

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Cauchy, A.-L. (1789–1857), [FN] Statistical functions
Cleveland, W. S. (1943– ), [R] lowess
Cohen, J. (1923–1998), [R] kappa
Cornfield, J. (1912–1979), [R] Epitab
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Cronbach, L. J. (1916–2001), [MV] alpha
Cunliffe, S. (1917–2012), [R] ttest

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Dickey, D. A. (1945– ), [TS] dfuller
Dunn, O. J. (1915–2008), [R] correlate
Dunnett, C. W. (1921–2007), [FN] Statistical functions
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Engle, R. F. (1942– ), [TS] arch

Fourier, J. B. J. (1768–1830), [R] cumul
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Gabriel, K. R. (1929–2003), [MV] biplot
Galton, F. (1822–1911), [R] regress
Gauss, J. C. F. (1777–1855), [R] regress
Gnanadesikan, R. (1932–2015), [R] Diagnostic plots

Godfrey, L. G. (1946– ), [R] regress postestimation time series
Gompertz, B. (1779–1865), [ST] streg
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Granger, C. W. J. (1934–2009), [TS] vargranger
Grant, J. (1620–1674), [ST] 1table
Greenwood, M. (1880–1949), [ST] 1sts

Halley, E. (1656–1742), [ST] 1table
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Hays, W. L. (1926–1995), [R] esize
Heckman, J. J. (1944– ), [R] heckman
Hesse, L. O. (1811–1874), [M-5] moptimize()
Hopper, G. M. (1906–1992), [P] trace
Huber, P. J. (1934– ), [U] 20 Estimation and postestimation commands

Jaccard, P. (1868–1944), [MV] measure_option
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Jenkins, G. M. (1933–1982), [TS] arima
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Kendall, M. G. (1907–1983), [R] spearman
King, A. A. (1815–1852), [M-2] Intro
Kish, L. (1910–2000), [SVY] Survey
Kolmogorov, A. N. (1903–1987), [R] ksmirnov
Kronecker, L. (1823–1891), [M-2] op_kronecker
Kruskal, J. B. (1928–2010), [MV] mds
Kruskal, W. H. (1919–2005), [R] kwallis

Lange-Caypon, J. E. (1877–1967), [R] Epitab
Laplace, P.-S. (1749–1827), [R] regress
Legendre, A.-M. (1752–1833), [R] regress
Linsley, E. G. (1910–2000), [MV] cluster dendrogram
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Lorenz, M. O. (1876–1959), [R] Inequality
Loutit, I. (1909–2009), [R] QC
Lovelace, A. (1815–1852), [M-2] Intro
Mann, H. B. (1905–2000), [R] ranksum
Martin, M. E. (1912–2012), [SVY] svy: tabulate oneway
martingale, [ST] stcox postestimation
Mayr, E. W. (1904–2005), [MV] cluster dendrogram
McFadden, D. L. (1937– ), [CM] cmclogit
Markov, A. (1856–1922), [BAYES] Intro
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Nelson, W. B. (1936– ), [ST] sts
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Norwood, J. L. (1923–2015), [R] Intro
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Penrose, R. (1931– ), [M-5] pinv()
Perron, P. (1959– ), [TS] pperron
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Pearson, K. (1857–1936), [R] correlate
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Scott, E. L. (1917–1988), [R] Intro
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Searle, S. R. (1928–2013), [ME] me
Shapiro, S. S. (1930– ), [R] swilk
Shepard, R. N. (1929– ), [MV] mds postestimation
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Shewhart, W. A. (1891–1967), [R] QC
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Snow, J. (1813–1858), [R] Epitab
Sokal, R. R. (1926–2012), [MV] measure_option
Spearman, C. E. (1863–1945), [R] spearman
Thiele, T. N. (1838–1910), [R] summarize
Tobin, J. (1918–2002), [R] tobit
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Vandermonde, A.-T. (1735–1796),
[M-5] Vandermonde()
Wald, A. (1902–1950), [TS] varwle
Wallis, W. A. (1912–1998), [R] kwallis
Ward, J. H., Jr. (1926–2011), [MV] cluster linkage
Watson, G. S. (1921–1998), [R] regress postestimation

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West, K. D. (1953– ), [TS] newey
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Whitney, D. R. (1915–2007), [R] ranksum
Wilcoxon, F. (1892–1965), [R] signrank
Wilks, S. S. (1906–1964), [MV] manova
Wilson, E. B. (1879–1964), [R] ci
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Zellner, A. (1927–2010), [R] sureg
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Abramowitz, M., [FN] Mathematical functions

Abrami, P. C., [META] tssmooth

Abraham, B., [TS]

Abadie, A., [TE]

Aalen, O. O., [ST] stcrreg postestimation, [ST] sts


Abayomi, K. A., [MI] Intro substantive, [MI] mi impute

Abe, M., [CM] cmnixlogit, [CM] cmxtnmixlogit


Abraira, V., [R] logit postestimation

Abrami, P. C., [META] Intro


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Achana, F., [D] icd

Achen, C. H., [R] scobit

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Adkins, L. C., [R] heckman, [R] regress, [R] regress postestimation, [TS] arch


Agnesi, M. G., [R] dydx


Aguiar, R., [META] Intro


Ahn, S. K., [TS] vec intro

Ahrens, A., [LASSO] Lasso intro

Ahrens, J. H., [FN] Random-number functions


Aigner, D. J., [R] frontier, [XT] xfrontier

Aiken, L. S., [R] pecorr

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Aitchison, J., [BAYES] Intro, [R] hetoprob, [R] ologit, [R] oprobit

Aitkin, A. C., [R] reg3

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Aldrich, J. H., [R] logit, [R] probit


Alexander, J. T., [R] mlexp

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Alfani, G., [R] Inequality

Allen, M. J., [MV] alpha

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Allison, M. J., [MV] manova


Almás, I., [R] Inequality


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Alvarez, J., [XT] xtabond
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! (not), see logical operators
!= (not equal), see relational operators
& (and), see logical operators
* abbreviation character, see abbreviations
*, clear subcommand, [D] clear
* comment indicator, [P] comments
,, row-join operator, see join operator
~ abbreviation character, see abbreviations
-> operator, [M-2] struct
,, class, [P] class
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