

graph other — Other graphics commands

[Description](#)[Syntax](#)[Remarks and examples](#)[Also see](#)

Description

In addition to `graph`, there are many other commands that draw graphs. They are listed below.

Syntax

Distributional diagnostic plots:

Command	Description
<code>histogram</code>	histograms
<code>symplot</code>	symmetry plots
<code>quantile</code>	quantile plots
<code>qnorm</code>	quantile–normal plots
<code>pnorm</code>	normal probability plots, standardized
<code>qchi</code>	χ^2 quantile plots
<code>pchi</code>	χ^2 probability plots
<code>qqplot</code>	quantile–quantile plots
<code>gladder</code>	ladder-of-powers plots
<code>qladder</code>	ladder-of-powers quantiles
<code>spikeplot</code>	spike plots and rootograms
<code>dotplot</code>	means or medians by group
<code>sunflower</code>	density-distribution sunflower plots

Smoothing and densities:

Command	Description
<code>kdensity</code>	kernel density estimation, univariate
<code>lowess</code>	lowess smoothing
<code>lpoly</code>	local polynomial smoothing

Regression diagnostics:

Command	Description
<code>avplot</code>	added-variable (leverage) plots
<code>cprplot</code>	component-plus-residual plots
<code>lvr2plot</code>	L-R (leverage-versus-squared-residual) plots
<code>rvfplot</code>	residual-versus-fitted plots
<code>rvpplot</code>	residual-versus-predictor plots

Time series:

Command	Description
<code>ac</code>	correlograms
<code>pac</code>	partial correlograms
<code>pergram</code>	periodograms
<code>cumsp</code>	spectral distribution plots, cumulative
<code>xcorr</code>	cross-correlograms for bivariate time series
<code>wntestb</code>	Bartlett's periodogram-based white-noise test
<code>estat acplot</code>	parametric autocorrelation and autocovariance functions after <code>arma</code> and <code>arfima</code>
<code>estat aroots</code>	eigenvalues of the companion matrices after <code>arma</code>
<code>estat sbcusum</code>	cumulative sum test for parameter stability

Vector autoregressive (VAR, SVAR, VEC) models:

Command	Description
<code>fcast graph</code>	<code>var</code> , <code>svar</code> , and <code>vec</code> forecasts
<code>varstable</code>	eigenvalues of the companion matrix after <code>var</code> and <code>svar</code>
<code>vecstable</code>	eigenvalues of the companion matrix after <code>vec</code>
<code>irf graph</code>	impulse–response functions (IRFs) and forecast-error variance decompositions (FEVDs)
<code>irf ograph</code>	overlaid IRFs and FEVDs
<code>irf cgraph</code>	combined IRFs and FEVDs
<code>bayesfcast graph</code>	<code>bayes: var</code> forecasts
<code>bayesvarstable</code>	eigenvalues of the companion matrix after <code>bayes: var</code>
<code>bayesirf graph</code>	Bayesian impulse–response functions (IRFs) and forecast-error variance decompositions (FEVDs)
<code>bayesirf ograph</code>	overlaid Bayesian IRFs and FEVDs
<code>bayesirf cgraph</code>	combined Bayesian IRFs and FEVDs

Longitudinal data/panel data:

Command	Description
<code>xtline</code>	panel-data line plots

Survival analysis:

Command	Description
<code>sts graph</code>	survivor, failure, hazard, or cumulative-hazard functions
<code>strate</code>	failure rates and cumulative hazard comparisons
<code>ltable</code>	life tables
<code>stci</code>	means and percentiles of survival time, with CIs
<code>stphplot</code>	log–log plots after <code>stcox</code>
<code>stintphplot</code>	log–log plots after <code>stintcox</code>
<code>stcoxkm</code>	Kaplan–Meier observed survival curves
<code>stintcoxnpx</code>	nonparametric and Cox predicted survival plots
<code>estat phtest</code>	verify proportional-hazards assumption
<code>stcurve</code>	survivor, failure, hazard, or cumulative hazard function
<code>estat gofplot</code>	assess goodness of fit after <code>streg</code> , <code>stcox</code> , <code>stintreg</code> , or <code>stintcox</code>

Meta-analysis:

Command	Description
<code>meta forestplot</code>	forest plots
<code>meta funnelplot</code>	funnel plots
<code>meta galbraithplot</code>	Galbraith plots
<code>meta labbeplot</code>	L'Abbé plots
<code>estat bubbleplot</code>	bubble plots

ROC analysis:

Command	Description
<code>roctab</code>	ROC curve
<code>rocplot</code>	parametric ROC curve
<code>roccomp</code>	multiple ROC curves, compared
<code>rocregplot</code>	marginal and covariate-specific ROC curves
<code>lroc</code>	ROC curve after <code>logistic</code> , <code>logit</code> , <code>probit</code> , and <code>ivprobit</code>
<code>lsens</code>	sensitivity and specificity versus probability cutoff

Causal inference and treatment effects:

Command	Description
<code>teoverlap</code>	overlap plots
<code>tebalance box</code>	box plot to check balance
<code>estat effectsplot</code>	effects plot after <code>mediate</code>
<code>estat trendplots</code>	graphical diagnostics for parallel trends after <code>didregress</code> and <code>xtdidregress</code>
<code>estat grangerplot</code>	time-specific treatment effects after <code>didregress</code> and <code>xtdidregress</code>
<code>estat bdecomp</code>	treatment-effect components from ATET decomposition after <code>didregress</code> and <code>xtdidregress</code>
<code>estat atetplot</code>	plot the coefficients of ATET for each cohort after <code>hdidregress</code> and <code>xthdidregress</code>
<code>estat aggregation</code>	aggregate the ATETs to characterize the heterogeneity of treatment effects after <code>hdidregress</code> and <code>xthdidregress</code>

Lasso:

Command	Description
<code>bicplot</code>	Bayesian information criterion function
<code>coefpath</code>	path of coefficients
<code>cvplot</code>	cross-validation function
<code>stcurve</code>	survivor, failure, hazard, or cumulative hazard function

Bayesian analysis:

Command	Description
<code>bayesgraph diagnostics</code>	multiple diagnostics in compact form
<code>bayesgraph trace</code>	trace plots
<code>bayesgraph ac</code>	autocorrelation plots
<code>bayesgraph histogram</code>	histograms
<code>bayesgraph kdensity</code>	density plots
<code>bayesgraph cusum</code>	cumulative sum plots
<code>bayesgraph matrix</code>	scatterplot matrix

Bayesian model averaging:

Command	Description
<code>bmagraph pmp</code>	model-probability plots
<code>bmagraph msize</code>	model-size distribution plots
<code>bmagraph varmap</code>	variable-inclusion maps
<code>bmagraph coefdensity</code>	coefficient posterior density plots

Item response theory:

Command	Description
<code>irtgraph icc</code>	item characteristic curve plot
<code>irtgraph tcc</code>	test characteristic curve plot
<code>irtgraph iif</code>	item information function plot
<code>irtgraph tif</code>	test information function plot

Multivariate analysis:

Command	Description
<code>biplot</code>	biplot
<code>cluster dendrogram</code>	dendrograms for hierarchical cluster analysis
<code>screeplot</code>	scree plot of eigenvalues
<code>scoreplot</code>	factor or component score plot
<code>loadingplot</code>	factor or component loading plot
<code>procoverlay</code>	Procrustes overlay plot
<code>cabiplot</code>	correspondence analysis biplot
<code>caprojection</code>	correspondence analysis dimension projection plot
<code>mcaplot</code>	plot of category coordinates
<code>mcaprojection</code>	MCA dimension projection plot
<code>mdsconfig</code>	multidimensional scaling configuration plot
<code>mdsshepard</code>	multidimensional scaling Shepard plot

Power, precision, and sample-size graphs:

Command	Description
<code>power, graph</code>	graph of results from <code>power</code>
<code>ciwidth, graph</code>	graph of results from <code>ciwidth</code>
<code>gsbounds, graphbounds</code>	graph of results from <code>gsbounds</code>
<code>gsdesign, graphbounds</code>	graph of results from <code>gsdesign</code>

Quality-control charts:

Command	Description
<code>cusum</code>	cusum plots
<code>cchart</code>	c (control) charts
<code>pchart</code>	p (fraction-defective) charts
<code>rchart</code>	R (range or dispersion) charts
<code>xchart</code>	\bar{X} (control line) charts
<code>shewhart</code>	\bar{X} and R charts, vertically aligned
<code>serrbar</code>	standard error bar charts

Other statistical graphs:

Command	Description
<code>marginsplot</code>	graph of results from <code>margins</code> (profile plots, etc.)
<code>tabodds</code>	odds-of-failure versus categories
<code>npgraph</code>	conditional mean function
<code>estat coefplot</code>	plot coefficients and their confidence intervals at different quantiles after <code>ivqregress</code> and <code>sqreg</code>
<code>estat waldplot</code>	plot Wald statistics corresponding to each grid point after <code>ivqregress</code>
<code>fp plot</code>	component-plus-residual plot from most recently fit fractional polynomial model
<code>fracplot</code>	plot data and fit from most recently fit fractional polynomial model
<code>grmap</code>	visualization of spatial data
<code>pkexamine</code>	summarize pharmacokinetic data

Remarks and examples

[stata.com](https://www.stata.com)

The other graph commands are implemented in terms of `graph`, which provides the following capabilities:

Command	Description
<code>graph bar</code>	bar charts
<code>graph pie</code>	pie charts
<code>graph dot</code>	dot charts
<code>graph matrix</code>	scatterplot matrices
<code>graph twoway</code>	twoway ($y-x$) graphs, including
<code>graph twoway scatter</code>	scatterplots
<code>graph twoway line</code>	line plots
<code>graph twoway function</code>	function plots
<code>graph twoway histogram</code>	histograms
<code>graph twoway *</code>	more

Also see

[G-1] [Graph intro](#) — Introduction to graphics

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