

## graph other — Other graphics commands

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## 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>	chi-squared quantile plots
<code>pchi</code>	chi-squared 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

See [\[R\] histogram](#), [\[R\] diagnostic plots](#), [\[R\] ladder](#), [\[R\] spikeplot](#), and [\[R\] sunflower](#).

Smoothing and densities:

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

See [\[R\] kdensity](#), [\[R\] lowess](#), and [\[R\] lpoly](#).

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

See [\[R\] regress postestimation diagnostic 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>arima</code> and <code>arfima</code>
<code>estat aroots</code>	eigenvalues of the companion matrices after <code>arima</code>

See [TS] [corrgram](#), [TS] [pergram](#), [TS] [cumsp](#), [TS] [xcorr](#), [TS] [wntestb](#), [TS] [estat acplot](#), and [TS] [estat aroots](#).

Vector autoregressive (VAR, SVAR, VECM) 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

See [TS] [fcast graph](#), [TS] [varstable](#), [TS] [vecstable](#), [TS] [irf graph](#), [TS] [irf ograph](#), and [TS] [irf cgraph](#).

Longitudinal data/panel data:

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

See [XT] [xtline](#).

Survival analysis:

Command	Description
<code>sts graph</code>	survivor, 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
<code>stcoxkm</code>	Kaplan–Meier observed survival curves
<code>estat phtest</code>	verify proportional-hazards assumption
<code>stcurve</code>	survivor, hazard, cumulative hazard, or cumulative incidence function

See [ST] [sts graph](#), [ST] [strate](#), [ST] [ltable](#), [ST] [stci](#), [ST] [stcox PH-assumption tests](#), and [ST] [stcurve](#).

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

See [R] `roctab`, [R] `rocfit` [postestimation](#), [R] `roccomp`, [R] `rocregplot`, [R] `lroc`, and [R] `lsens`.

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

See [MV] `biplot`, [MV] `cluster dendrogram`, [MV] `screeplot`, [MV] `scoreplot`, [MV] `procrustes postestimation`, [MV] `ca postestimation plots`, [MV] `mca postestimation plots`, and [MV] `mds postestimation plots`.

Quality-control charts:

Command	Description
<code>cusum</code>	cusum plots
<code>cchart</code>	c charts
<code>pchart</code>	p charts
<code>rchart</code>	r charts
<code>xchart</code>	$\bar{X}$ charts
<code>shewhart</code>	$\bar{X}$ charts, vertically aligned
<code>serrbar</code>	standard error bar charts

See [R] `cusum`, [R] `qc`, and [R] `serrbar`.

Other statistical graphs:

Command	Description
<code>marginsplot</code>	graph of results from <code>margins</code> (profile plots, etc.)
<code>power, graph</code>	graph of results from <code>power</code>
<code>tabodds</code>	odds-of-failure versus categories
<code>teffects overlap</code>	overlap plots
<code>pkexamine</code>	summarize pharmacokinetic data

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See [R] `marginsplot`, [PSS] `power, graph`, [ST] `epitab`, [TE] `teffects overlap`, and [R] `pkexamine`.

## Description

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

## 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

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See [G-2] `graph bar`, [G-2] `graph pie`, [G-2] `graph dot`, [G-2] `graph matrix`, and [G-2] `graph twoway`.

## Also see

[G-1] `graph intro` — Introduction to graphics