

## 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 above.

## 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

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>arima</code> and <code>arfima</code>
<code>estat aroots</code>	eigenvalues of the companion matrices after <code>arima</code>
<code>estat sbcusum</code>	cumulative sum test for parameter stability

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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

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Longitudinal data/panel data:

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

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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

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## 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

## 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

## 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

Other statistical graphs:

Command	Description
<a href="#">marginsplot</a>	graph of results from <a href="#">margins</a> (profile plots, etc.)
<a href="#">bayesgraph</a>	graph of results from <a href="#">bayesmh</a>
<a href="#">power, graph</a>	graph of results from <a href="#">power</a>
<a href="#">tabodds</a>	odds-of-failure versus categories
<a href="#">teffects overlap</a>	overlap plots
<a href="#">npggraph</a>	conditional mean function
<a href="#">gmap</a>	visualization of spatial data
<a href="#">pkexamine</a>	summarize pharmacokinetic data

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## Remarks and examples

[stata.com](http://stata.com)

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

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

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## Also see

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