graph twoway	rpspike —	- Range and point plot with spikes	

DescriptionQuick startMenuSyntaxOptionsRemarks and examplesAlso see

Description

A range and point plot has three y variables, such as high, low, and closing daily stock prices, or mean values and the corresponding upper and lower bounds of the 95% confidence intervals.

twoway rpspike plots a range and a point, using a spike to connect the high and low values and a marker for the point on each spike.

Quick start

Specify a range plot of y1 and y2 with spikes and markers for y3

twoway rpspike y1 y2 y3 x

Specify a horizontal range and point plot with spikes

twoway rpspike y1 y2 y3 x, horizontal

Specify maroon spikes

twoway rpspike y1 y2 y3 x, lcolor(maroon)

Specify maroon markers

twoway rpspike y1 y2 y3 x, mcolor(maroon)

Specify an overlaid line plot

twoway rpspike y1 y2 y3 x || line y4 x, sort

Specify labels for the y axis

twoway rpspike y1 y2 y3 x, ylabel(100 200 300 400)

Menu

Graphics > Two-way graph (scatter, line, etc.)

Syntax

options	Description	
<u>vert</u> ical <u>hor</u> izontal	vertical spikes; the default horizontal spikes	
marker_options line_options	change look of markers (color, size, etc.) change look of spike lines	
colorvar_options	change color of spike lines based on values of a variable	
axis_choice_options	associate plot with alternative axis	
twoway_options	titles, legends, axes, added lines and text, by, regions, name, aspect ratio, etc.	

<u>tw</u>oway rpspike *ylvar y2var y3var xvar* [*if*] [*in*] [, *options*]

All explicit options are *rightmost*, except vertical and horizontal, which are *unique*; see [G-4] **Concept: repeated options**.

Options

vertical and horizontal specify whether the *y1* and low *y2* values are to be presented vertically (the default) or horizontally.

In the default vertical case, ylvar and y2var record the minimum and maximum (or maximum and minimum) y values to be graphed against each *xvar* value.

If horizontal is specified, the values recorded in ylvar and y2var are plotted in the x direction, and xvar is treated as the y value.

- *marker_options* specify how the markers look, including shape, size, color, and outline; see [G-3] *marker_options*.
- *line_options* specify the look of the lines used to draw the spikes, including pattern, width, and color; see [G-3] *line_options*.
- *colorvar_options* specify that the color of the lines used to draw the spikes be determined by the levels of the numeric variable *colorvar*; see [G-3] *colorvar_options*.
- *axis_choice_options* associate the plot with a particular y or x axis on the graph; see [G-3] *axis_choice_options*.
- *twoway_options* are a set of common options supported by all twoway graphs. These options allow you to title graphs, name graphs, control axes and legends, add lines and text, set aspect ratios, create graphs over by () groups, and change some advanced settings. See [G-3] *twoway_options*.

Remarks and examples

Remarks are presented under the following headings:

Typical use Advanced use

Typical use

We have daily data recording the values for the S&P 500 in 2001:

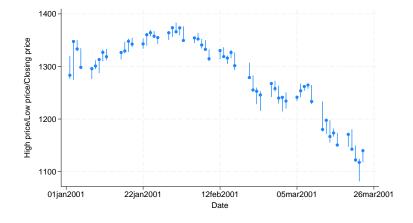
```
. use https://www.stata-press.com/data/r19/sp500 (S&P 500)
```

. list date high low close in 1/5

	date	high	low	close
1. 2. 3.	02jan2001 03jan2001 04jan2001	1320.28 1347.76 1350.24	1276.05 1274.62 1329.14	1283.27 1347.56 1333.34
3. 4. 5.	04jan2001 05jan2001 08jan2001	1334.77 1298.35	1294.95 1276.29	1298.35 1295.86

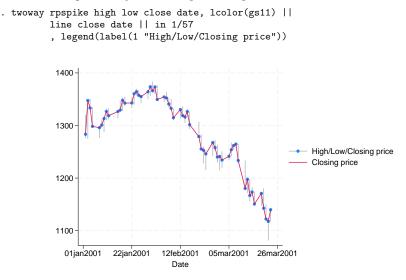
We will use the first 57 observations from these data and create a range plot for high and low prices with markers for the closing prices:

```
. twoway rpspike high low close date in 1/57\,
```



Advanced use

twoway rpspike can be usefully combined with other twoway plottypes (see [G-2] graph twoway). For example, we add a line plot for the closing price to the graph above, and we change the color of the spikes with lcolor(gs11) to give the line plot more prominence.



Also see

- [G-2] graph twoway rarea Range plot with area shading
- [G-2] graph twoway rbar Range plot with bars
- [G-2] graph twoway rcap Range plot with capped spikes
- [G-2] graph twoway rcapsym Range plot with spikes capped with marker symbols
- [G-2] graph twoway rconnected Range plot with connected lines
- [G-2] graph twoway rline Range plot with lines
- [G-2] graph twoway rpcap Range and point plot with capped spikes
- [G-2] graph twoway rscatter Range plot with markers
- [G-2] graph twoway rspike Range plot with spikes
- [G-2] graph twoway spike Two-way spike plots

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