

graph twoway rspike — Range plot with spikes[Description](#)
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Description

A range plot has two y variables, such as high and low daily stock price or upper and lower 95% confidence limits.

`twoway rspike` plots a range, using spikes to connect the high and low values.

Also see [\[G-2\] graph twoway spike](#) for another style of spike chart.

Quick start

Range plot with spikes

```
twoway rspike y1 y2 x
```

Horizontal range plot with spikes

```
twoway rspike y1 y2 x, horizontal
```

Specify maroon spikes

```
twoway rspike y1 y2 x, lcolor(maroon)
```

With an overlaid line plot

```
twoway rspike y1 y2 x || line y3 x, sort
```

Specify labels for the y axis

```
twoway rspike y1 y2 x, ylabel(100 200 300 400)
```

Menu

Graphics > Twoway graph (scatter, line, etc.)

Syntax

```
twoway rspike y1var y2var xvar [if] [in] [, options]
```

<i>options</i>	Description
vertical	vertical spikes; the default
horizontal	horizontal spikes
<i>line_options</i>	change look of spike lines
<i>axis_choice_options</i>	associate plot with alternative axis
<i>twoway_options</i>	titles, legends, axes, added lines and text, by, regions, name, aspect ratio, etc.

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 high and low *y* values are to be presented vertically (the default) or horizontally.

In the default **vertical** case, *y1var* 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 *y1var* and *y2var* are plotted in the *x* direction and *xvar* is treated as the *y* value.

line_options specify the look of the lines used to draw the spikes, including pattern, width, and color; see [G-3] *line_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
Advanced use 2

Typical use

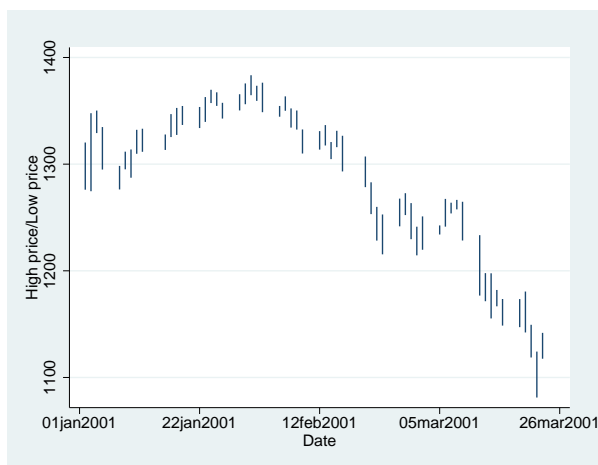
We have daily data recording the values for the S&P 500 in 2001:

```
. use https://www.stata-press.com/data/r17/sp500
(S&P 500)
. list date high low close in 1/5
```

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

We will use the first 57 observations from these data:

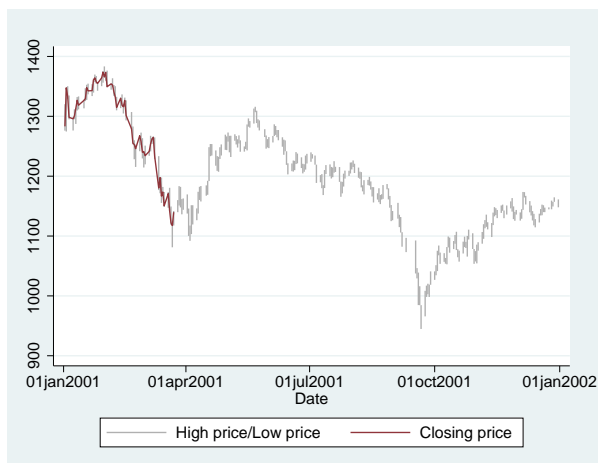
```
. twoway rspike high low date in 1/57
```



Advanced use

`twoway rspike` can be usefully combined with other `twoway` plottypes (see [G-2] **graph twoway**):

```
. twoway rspike high low date, lcolor(gs11) ||
  line close date || in 1/57
```

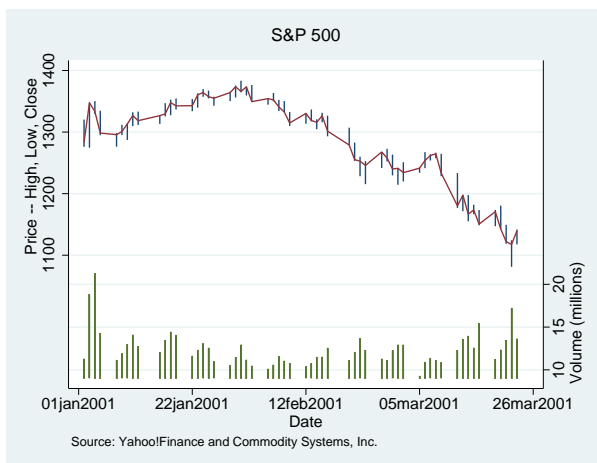


We specified `lcolor(gs11)` to tone down the spikes and give the line plot more prominence.

Advanced use 2

A popular financial graph is

```
. use https://www.stata-press.com/data/r17/sp500, clear
(S&P 500)
. replace volume = volume/1000
(248 real changes made)
. twoway
  rspike hi low date ||
  line  close date ||
  bar  volume date, barw(.25) yaxis(2) ||
in 1/57
, ysca(axis(1) r(900 1400))
  ysca(axis(2) r( 9 45))
ytitle("                Price -- High, Low, Close")
ytitle(" Volume (millions)", axis(2) astext just(left))
legend(off)
subtitle("S&P 500", margin(b+2.5))
note("Source: Yahoo!Finance and Commodity Systems, Inc.")
```



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 rscatter](#) — Range plot with markers
- [G-2] [graph twoway rspike](#) — Twoway spike plots