graph twoway rconnected — Range plot with connected lines

Description

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

`twoway rconnected` plots the upper and lower ranges by using connected lines.

Quick start

Range plot with connected lines sorted on `x`

```
twoway rconnected y1 y2 x, sort
```

Same as above, but displayed as a horizontal plot

```
twoway rconnected y1 y2 x, sort horizontal
```

Specify large Xs as the marker symbol

```
twoway rconnected y1 y2 x, sort msymbol(lgx)
```

Specify a dashed line connecting markers

```
twoway rconnected y1 y2 x, sort lpattern(dash)
```

Specify points are connected as a flat line segment followed by a vertical segment

```
twoway rconnected y1 y2 x, sort connect(stairstep)
```

Menu

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

Syntax

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

options	Description
`vertical`	vertical plot; the default
`horizontal`	horizontal plot
connect_options	change rendition of lines connecting points
marker_options	change look of markers (color, size, etc.)
marker_label_options	add marker labels; change look or position
colorvar_options	change color of markers 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.

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.

connect_options change the rendition of the lines connecting the plotted points, including sorting, handling missing observations, and the look of the line—line thickness, pattern, and color. For details, see [G-3] ***connect_options***.

marker_options specify how the markers look, including shape, size, color, and outline; see [G-3] ***marker_options***. The same symbol is used for both lines.

marker_label_options specify if and how the markers are to be labeled. Because the same marker label would be used to label both lines, these options are of limited use here. See [G-3] ***marker_label_options***.

colorvar_options specify that the color of the markers 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

Visually, there is no difference between

```
. twoway rconnected y1var y2var  xvar
```

and

```
. twoway connected y1var xvar || connected y2var xvar, pstyle(p1)
```

The two connected lines are presented in the same overall style, meaning symbol selection and color and line color, thickness, and pattern.

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 rline** — Range plot with lines

[G-2] **graph twoway rscatter** — Range plot with markers

[G-2] **graph twoway rspike** — Range plot with spikes