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
```

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 ➤ Twoway graph (scatter, line, etc.)
## Syntax

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

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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`.

`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