# Title

> **graph twoway rline** — Range plot with 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 rline` plots the upper and lower ranges by using lines.

## Quick start

Range plot with lines sorted in ascending order by values of x
      twoway rline y1 y2 x, sort

As above, but specify thick lines
      twoway rline y1 y2 x, sort lwidth(thick)

As above, but draw lines using long dashes
      twoway rline y1 y2 x, sort lwidth(thick) lpattern(longdash)

Specify that missing values produce breaks in the lines
      twoway rline y1 y2 x, sort cmissing(n)

Add the title "Y Title" to the $y$ axis
      twoway rline y1 y2 x, sort ytitle("Y Title")

## Menu

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

## Syntax

> <u>tw</u>oway <u>rl</u>ine *y1var y2var xvar* $\left[\,if\,\right]$ $\left[\,in\,\right]$ $\left[\,,\ options\,\right]$

| *options* | Description |
|---|---|
| <u>vertical</u> | vertical plot; the default |
| <u>horizontal</u> | horizontal plot |
| *connect_options* | change rendition of lines connecting points |
| *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 points, including sorting, handling
 missing observations, and the look of the line—line thickness, pattern, and color. For details, see
 [G-3] **connect_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                                                           [stata.com](stata.com)

Visually, there is no difference between

```
. twoway rline y1var y2var xvar
```

and

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

The two lines are presented in the same overall style, meaning 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 rconnected** — Range plot with connected lines

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

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