

graph twoway dropline — Twoway dropped-line plots

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Syntax

```
twoway dropline yvar xvar [if] [in] [, options]
```

<i>options</i>	Description
<code>vertical</code>	vertical dropped-line plot; the default
<code>horizontal</code>	horizontal dropped-line plot
<code>base(#)</code>	value to drop to; default is 0
<code>marker_options</code>	change look of markers (color, size, etc.)
<code>marker_label_options</code>	add marker labels; change look or position
<code>line_options</code>	change look of dropped lines
<code>axis_choice_options</code>	associate plot with alternative axis
<code>twoway_options</code>	titles, legends, axes, added lines and text, by, regions, name, aspect ratio, etc.

See [G-3] [marker_options](#), [G-3] [marker_label_options](#), [G-3] [line_options](#), [G-3] [axis_choice_options](#), and [G-3] [twoway_options](#).

All explicit options are *rightmost*, except `vertical` and `horizontal`, which are *unique*; see [G-4] [concept: repeated options](#).

Menu

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

Description

`twoway dropline` displays numeric (y,x) data as dropped lines capped with a marker. `twoway dropline` is useful for drawing plots in which the numbers vary around zero.

Options

`vertical` and `horizontal` specify either a vertical or a horizontal dropped-line plot. `vertical` is the default. If `horizontal` is specified, the values recorded in `yvar` are treated as x values, and the values recorded in `xvar` are treated as y values. That is, to make horizontal plots, do not switch the order of the two variables specified.

In the `vertical` case, dropped lines are drawn at the specified `xvar` values and extend up or down from 0 according to the corresponding `yvar` values. If 0 is not in the range of the y axis, lines extend up or down to the x axis.

In the `horizontal` case, dropped lines are drawn at the specified `xvar` values and extend left or right from 0 according to the corresponding `yvar` values. If 0 is not in the range of the `x` axis, lines extend left or right to the `y` axis.

`base(#)` specifies the value from which the lines should extend. The default is `base(0)`, and in the above description of options `vertical` and `horizontal`, this default was assumed.

`marker_options` specify the look of markers plotted at the data points. This look includes the marker symbol and its size, color, and outline; see [G-3] [marker_options](#).

`marker_label_options` specify if and how the markers are to be labeled; see [G-3] [marker_label_options](#).

`line_options` specify the look of the dropped lines, 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

[stata.com](#)

Remarks are presented under the following headings:

Typical use
Advanced use
Cautions

Typical use

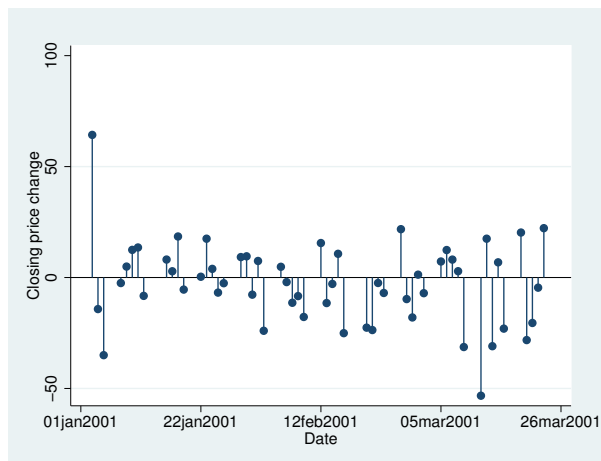
We have daily data recording the values for the S&P 500 in 2001:

```
. use http://www.stata-press.com/data/r13/sp500
(S&P 500)
. list date close change in 1/5
```

	date	close	change
1.	02jan2001	1283.27	.
2.	03jan2001	1347.56	64.29004
3.	04jan2001	1333.34	-14.22009
4.	05jan2001	1298.35	-34.98999
5.	08jan2001	1295.86	-2.48999

In [G-2] [graph twoway bar](#), we graphed the first 57 observations of these data by using bars. Here is the same graph presented as dropped lines:

```
. twoway dropline change date in 1/57, yline(0, lstyle(foreground))
```



In the above, we specified `ylines(0)` to add a line across the graph at 0, and then we specified `ylines(, lstyle(foreground))` so that the line would have the same color as the foreground. We could have instead specified `ylines(, lcolor())`. For an explanation of why we chose `lstyle()` over `foreground()`, see [Advanced use: Overlaying](#) in [G-2] [graph twoway bar](#).

Advanced use

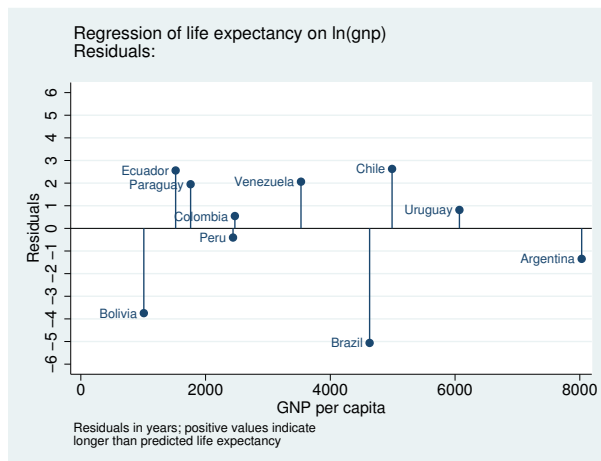
Dropped-line plots work especially well when the points are labeled. For instance,

```
. use http://www.stata-press.com/data/r13/lifeexp, clear
(Life expectancy, 1998)
. keep if region==3
(58 observations deleted)
. generate lngnp = ln(gnppc)
. quietly regress le lngnp
. predict r, resid
```

```

. twoway dropline r gnp,
  yline(0, lstyle(foreground)) mlabel(country) mlabpos(9)
  ylab(-6(1)6)
  subtitle("Regression of life expectancy on ln(gnp)"
    "Residuals:" " ", pos(11))
  note("Residuals in years; positive values indicate"
    "longer than predicted life expectancy")

```



Cautions

See *Cautions* in [G-2] **graph twoway bar**, which applies equally to **twoway dropline**.

Also see

[G-2] **graph twoway scatter** — Twoway scatterplots

[G-2] **graph twoway spike** — Twoway spike plots