Title

> ***cat_axis_line_options*** — Options for specifying look of categorical axis line

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Syntax

cat_axis_line_options	Description
off and on	suppress/force display of axis
fill	allocate space for axis even if off
fextend	extend axis line through plot region and plot region's margin
extend	extend axis line through plot region
noextend	do not extend axis line at all
noline	do not even draw axis line
line	force drawing of axis line
titlegap(*relativesize*)	margin between axis title and tick labels
outergap(*relativesize*)	margin outside of axis title
lstyle(*linestyle*)	overall style of axis line
lcolor(*colorstyle*)	color of axis line
lwidth(*linewidthstyle*)	thickness of axis line
lpattern(*linepatternstyle*)	whether axis solid, dashed, etc.

See [G-4] *relativesize*, [G-4] *linestyle*, [G-4] *colorstyle*, [G-4] *linewidthstyle*, and [G-4] *linepatternstyle*.

Description

The *cat_axis_line_options* determine the look of the categorical x axis in graph bar, graph hbar, graph dot, and graph box; see [G-2] **graph bar**, [G-2] **graph dot**, [G-2] **graph box**. These options are rarely specified but when specified, they are specified inside axis() of over():

> . graph . . . , over(*varname*, . . . axis(*cat_axis_line_options*) . . .)

Options

off and on suppress or force the display of the axis.

fill goes with off and is seldom specified. If you turned an axis off but still wanted the space to be allocated for the axis, you could specify fill.

fextend, extend, noextend, line, and noline determine how much of the line representing the axis is to be drawn. They are alternatives.

noline specifies that the line not be drawn at all. The axis is there, ticks and labels will appear, but the axis line itself will not be drawn.

line is the opposite of noline, for use if the axis line somehow got turned off.

noextend specifies that the axis line not extend beyond the range of the axis, defined by the first and last categories.

extend specifies that the line be longer than that and extend all the way across the plot region.

fextend specifies that the line be longer than that and extend across the plot region and across the plot region's margins. For a definition of the plot region's margins, see [G-3] *region̲options*. If the plot region has no margins (which would be rare), then fextend means the same as extend. If the plot region does have margins, extend would result in the y and x axes not meeting. With fextend, they touch.

fextend is the default with most schemes.

titlegap(*relativesize*) specifies the margin to be inserted between the axis title and the axis' tick labels; see [G-4] *relativesize*.

outergap(*relativesize*) specifies the margin to be inserted outside the axis title; see [G-4] *relativesize*.

lstyle(*linestyle*), lcolor(*colorstyle*), lwidth(*linewidthstyle*), and lpattern(*linepatternstyle*) determine the overall look of the line that is the axis; see [G-4] **concept: lines**.

Remarks and examples   stata.com

The *cat̲axis̲label̲options* are rarely specified.

Also see

[G-2] **graph bar** — Bar charts

[G-2] **graph box** — Box plots

[G-2] **graph dot** — Dot charts (summary statistics)