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cat\_axis\_line\_options — Options for specifying look of categorical axis line

Description Quick start Syntax Options Remarks and examples Also see

# **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) ...)
```

#### **Quick start**

```
Force display of the categorical axis for plots drawn over categorical variable catvar graph_command ..., over(catvar, axis(line))

Suppress display of the categorical axis graph_command ..., over(catvar, axis(noline))

Make the categorical axis a thick line graph_command ..., over(catvar, axis(lwidth(thick)))

Same as above, but specify line width as 18 point graph_command ..., over(catvar, axis(lwidth(18pt)))

Make the categorical axis line green graph_command ..., over(catvar, axis(lcolor(green)))
```

Note: Categorical axis-line options can be used only with graph bar, graph box, graph dot, or graph hbar.

# Syntax 3 4 1

cat_axis_line_options	Description
off and on	suppress/force display of axis
fill	allocate space for axis even if off
<u>fex</u> tend	extend axis line through plot region and plot region's margin
<u>ex</u> tend	extend axis line through plot region
<u>noex</u> tend	do not extend axis line at all
<u>noli</u> ne	do not even draw axis line
<u>li</u> ne	force drawing of axis line
titlegap(size)	margin between axis title and tick labels
outergap(size)	margin outside of axis title
lstyle(linestyle)	overall style of axis line
$\overline{\underline{\text{1col}}}$ or (colorstyle)	color and opacity of axis line
<u>lwidth(linewidthstyle)</u>	thickness of axis line
<u>lp</u> attern(linepatternstyle)	whether axis solid, dashed, etc.

## **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]  $region\_options$ . 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(size) specifies the margin to be inserted between the axis title and the axis's tick labels; see [G-4] size.

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

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

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The cat\_axis\_label\_options 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)

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