URL: http://cxc.harvard.edu/ciao3.4/sherpa.fitplot.html
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AHELP for CIAO 3.4

sherpa.fitplot

Context: sherpa

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Synopsis

Configure appearance of Sherpa plots.

Syntax

```
sherpa.fitplot.[field]
```

Description

The Sherpa configuration variable (also called "state object") sherpa.fitplot controls appearance of plots created by LPLOT BACKFIT, LPLOT BFIT, and LPLOT FIT . The settings of sherpa.fitplot do not affect plots created with any other command.

The following table lists each field of sherpa.fitplot, with a description and the default value:

Field Name	Description	Default
x_errorbars	Add x−axis error bars to data points (0 = false, 1 = true)	0
y_errorbars	Add y−axis error bars to data points (0 = false, 1 = true)	1
errs_style	Style of error bars	bar
errs_type	Direction of Error bars: up, down (or both).	both
x_log	Log scale for x−axis (0 = false, 1 = true)	0
y_log	Log scale for y−axis (0 = false, 1 = true)	0
curvestyle	Style of curve (e.g., histogram)	noline
curvecolor	Curve color	default
symbolstyle	Style of symbols (e.g., triangle, square)	square
symbolcolor	Symbol color	default
symbolsize	Symbol size	2
fit_curvestyle	Style of 2nd, predicted data curve	step
fit_curvecolor	Color of 2nd, predicted data curve	red

fit_symbolstyle	Style of symbols of 2nd, predicted data curve	square
fit_symbolcolor	Symbol color	Color of symbols of 2nd, predicted data curve
fit_symbolsize	Size of symbols of 2nd, predicted data curve	2
xlabel_size	Size of x label	1.5
ylabel_size	Size of y label	1.5
zlabel_size	Size of z label	1.5
title_size	Size of title	1.5
tickvals_size	Size of tick values	1.5
prefunc	User S−Lang function executed before the data is plotted	NULL
postfunc	User S−Lang function executed after the data is plotted	NULL

Possible error bar styles: standard, bar.

Possible error bar types: both, none, up, down, dn.

Possible colors: black, blue, cyan, default, green, magenta, red, white, yellow.

Possible curve styles: histo, noline, simpleline, step.

Possible symbol styles: bigpoint, block, circle, cross, diamond, downtri, none, point, soliddiamond, soliddowntri, soliduptri, square, uptri.

The fields sherpa.fitplot.prefunc and sherpa.fitplot.postfunc refer to optional user functions that can be applied to plots before and after the plot is created. Please see the ahelp file sherpa−plot−hooks for more information.

Example 1

The sherpa.fitplot settings can be changed at the command line. When assigning a string to a field, the string should be quoted as shown in the second command:

```
sherpa> sherpa.fitplot.x_log = 1
sherpa> sherpa.fitplot.curvecolor = "green"
```

Example 2

Create an alias sfp to sherpa.fitplot and use it.

```
sherpa> variable sfp = sherpa.fitplot
sherpa> sfp.x_log = 1
sherpa> sfp.curvecolor = "green"
```

Example 3

Use print to obtain the information about the current settings of sherpa.fitplot:

```
sherpa> print(sherpa.fitplot)
x_errorbars      =  0
y_errorbars      =  1
errs_style       =  bar
errs_type        =  both
x_log            =  0
y_log            =  0
curvestyle       =  noline
curvecolor       =  default
symbolstyle      =  square
symbolcolor      =  default
symbolsize       =  2
fit_curvestyle   =  step
fit_curvecolor   =  red
fit_symbolstyle  =  none
fit_symbolcolor  =  default
fit_symbolsize   =  2
xlabel_size      =  1.5
ylabel_size      =  1.5
zlabel_size      =  1.5
title_size       =  1.5
tickvals_size    =  1.5
prefunc          =  NULL
postfunc         =  NULL
```

Bugs

See the Sherpa bug pages online for an up−to−date listing of known bugs.

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