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 AHELP for CIAO 3.4

# sherpa.multiplot

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## Synopsis

Configure appearance of Sherpa plots.

## Syntax

```
sherpa.multiplot.[field]
```

## Description

The Sherpa configuration variable (also called "state object") `sherpa.multiplot` controls appearance of plots created by CPLOT, LPLOT, OPLOT and SPLOT.

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

Field Name	Description	Default
<code>use_tex_strings</code>	Cause certain characters in labels (e.g., "_") NOT to be interpreted as TeX would (0 = false, 1 = true)	1
<code>skip_tex_chars</code>	Characters which are NOT to be interpreted as TeX would	'%\$_
<code>gap</code>	Gap width when two, and only two, plots are created with LPLOT	0.1
<code>clear</code>	Clear ChIPS window before plot command executed (0 = false, 1 = true)	1
<code>newarea</code>	When plot command creates multiple plots, put each plot in a new drawing area (0 = false, 1 = true)	1
<code>redraw</code>	Redraw after every ChIPS command (0 = false, 1 = true)	0
<code>prefunc</code>	User S-Lang function executed before the data is plotted	NULL
<code>postfunc</code>	User S-Lang function executed after the data is plotted	NULL
<code>xfilter_lo</code>	Lower x bound applied to all plots (if NULL, lower bound taken from data)	NULL
<code>xfilter_hi</code>	Upper x bound applied to all plots (if NULL, upper bound taken from data)	NULL

The fields `sherpa.multiplot.prefunc` and `sherpa.multiplot.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

Generate plot in a new drawing area.

```
sherpa> sherpa.multiplot.newarea=1
sherpa> LPLOT DATA
```

## Example 2

The sherpa.multiplot 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.multiplot.gap = 0.2
sherpa> sherpa.multiplot.skip_tex_chars = "%$_"
```

## Example 3

Create an alias smp to sherpa.multiplot and use it.

```
sherpa> variable smp = sherpa.multiplot
sherpa> smp.gap = 0.2
sherpa> smp.skip_tex_chars = "%$_"
```

## Example 4

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

```
sherpa> print(sherpa.multiplot)
use_tex_strings = 1
skip_tex_chars = %$_
gap = 0.1
clear = 1
newarea = 1
redraw = 0
prefunc = NULL
postfunc = NULL
xfilter_lo = NULL
xfilter_hi = NULL
```

## Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.