



AHELP for CIAO 3.4

## chips\_set\_yscale

Context: [chips](#)

*Jump to:* [Description](#) [Examples](#) [Bugs](#) [See Also](#)

### Synopsis

Set the y-axis scale

### Syntax

```
Integer_Type chips_set_yscale(scale)
```

### Description

Sets the scale of the plot's y-axis.

#### Arguments for chips\_set\_yscale

Name	Type	Options	Comment
scale	Numeric	0, 1, "linear", "log", _chips->log, _chips->linear	logarithm is base 10

When invoked with no argument, the function will reset the scale to linear.

The function returns a 0 on success and -1 on failure.

The current scale may be found with `chips_get_yscale`.

### Example 1

```
chips> input=readfile("/data/chips/phas.fits")
chips> curve x input.x y input.y
chips> chips_set_yscale("log")
0
```

A data file is read in and plotted, then the y-axis is changed to log scale. Equivalent commands are:

```
chips> chips_set_yscale(0)
chips> chips_set_yscale(_chips->log)
```

## Example 2

```
chips> spec=readfile("/data/threads/Chips/data1.pha")
chips> curve x spec.channels y spec.counts
chips> chips_set_yscale(0)
Warning: negative and zero values ignored in log scale
0
chips> chips_set_yscale(_chips->linear)
0
```

First, the y-axis is set to logarithmic scale. The second "chips\_set\_yscale" command changes it back to a linear scale; equivalent commands are:

```
chips> chips_set_yscale(1)
chips> chips_set_yscale("linear")
chips> chips_set_yscale()
```

## Bugs

See the [bugs page for ChIPS](#) on the CIAO website for an up-to-date listing of known bugs.

## See Also

*chips*

[chips auto redraw](#), [chips clear](#), [chips color name](#), [chips color value](#), [chips get pane](#),  
[chips get xrange](#), [chips get xscale](#), [chips get yrange](#), [chips get yscale](#), [chips get zrange](#),  
[chips get zscale](#), [chips label](#), [chips line](#), [chips pickpoints](#), [chips redraw](#), [chips set pane](#),  
[chips set xrange](#), [chips set xscale](#), [chips set yrange](#), [chips set zrange](#), [chips set zscale](#), [chips split](#),  
[chips version](#)

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URL:  
[http://cxc.harvard.edu/ciao3.4/chips\\_set\\_yscale.html](http://cxc.harvard.edu/ciao3.4/chips_set_yscale.html)  
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