## Subject: Re: Histogram with logarithmic filling Posted by Jo Klein on Wed, 31 May 2006 16:36:29 GMT

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Hm why not? Have you tried setting the /ylog keyword to plothist? What happens then?

Jo

## Boto wrote:

- > Hi~
- >
- > It is easy to fill histogram in linear plot, but I can't do that on
- > logarithmic plot.
- > How can I do this?
- > I know plothist.pro of astron package. However it is not possible to do
- > that in log scale.

>

> Help me please~~

>

> Good Day~

>

> Boto

>

Subject: Re: Histogram with logarithmic filling Posted by David Fanning on Wed, 31 May 2006 17:11:13 GMT View Forum Message <> Reply to Message

## Jo Klein writes:

- > Hm why not? Have you tried setting the /ylog keyword to plothist? What
- > happens then?

Well, it is a \*little\* more complicated than that because the author of PLOTHIST never anticipated someone might actually set the PLOT YLOG or XLOG keywords. I've only investigated the case where YLOG=1, but you have to change a number of yfill values to 1 (instead of 0), and you have to remember that !Y.CRANGE contains the exponents of the range values, not the values themselves when you are in a LOG plot. So you need something like this:

 $Yfill = Yfill > 10^(!Y.CRANGE[0]) < 10^(!Y.CRANGE[1])$ 

In place of this:

Yfill = Yfill > !Y.CRANGE[0] < !Y.CRANGE[1]

But about 10 minutes work should set you right for log plots. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Histogram with logarithmic filling Posted by David Fanning on Wed, 31 May 2006 17:15:36 GMT View Forum Message <> Reply to Message

## David Fanning writes:

- > I've only investigated
- > the case where YLOG=1, but you have to change a number of
- > yfill values to 1 (instead of 0)

Now that I look closely at my code, I did change this line:

$$Yfill = [0, Yfill, 0]$$

To this line:

But there were 3 or 4 other places where I have to find "[0,yhist,0]" and change it to "[1,yhist,1]".

Cheers.

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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