
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 plohist? 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 plohist.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
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Jo Klein writes:

> Hm why not? Have you tried setting the /ylog keyword to plohist? 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

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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:

```
Yfill = [1, Yfill, 1]
```

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

--

David Fanning, Ph.D.

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