
Subject: Re: log scale colorbar in IDL 8.0
Posted by [pgrigis](#) on Thu, 19 May 2011 17:52:10 GMT
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On May 19, 12:53 pm, David Fanning <n...@idlcoyote.com> wrote:

```
> David Fanning writes:
>
>> Paolo writes:
>
>>> By the way, the cg version doesn't seem to be properly
>>> honoring the axis ranges. For instance, a y range of
>>> [-100,100] should show an image only in the upper half
>>> of the axis, as the image y-range is only [0,127]...
>
>>> (well one could wonder why would you plot that way...
>>> but the idea behind pg_plotimage was to plot an image the
>>> same way you would use "plot"...)
```

```
>
>> Hi Paolo,
>
>> I have no trouble fixing this for the display, but
>> I can't make it write a proper PostScript file. I've
>> gone back to the original code, and I can't make that
>> program write a proper PostScript file with this command
>> either! Have you ever tried to write a PostScript file
>> with the commands above in your original program? :-)
```

```
>
> Here is the code I am using with your original program.
>
> loadct,5
> im=dist(128,128)
> x=findgen(128)
> y=findgen(128)
> ps_start, filename='test_1.ps'
> pg_plotimage,im,x,y,xrange=[5,100],$
>   yrange=[5,100],/xstyle,/ystyle,/xlog
> ps_end
> ps_start, filename='test_2.ps'
> pg_plotimage,im,x,y,xrange=[5,100],$
>   yrange=[-100,100],/xstyle,/ystyle,/xlog
> ps_end
> END
>
> test_1.ps seems to be fine. But test_2.ps is
> bugged. :-)
```

Yes that's a bug for sure.

Considering the program was written with the idea to figure out the luminosity of each pixel on the screen by interpolating the values of the images to a pixel grid, I guess it's not entirely surprising that it doesn't work very well with the PS device, which in fact does not even have the concept of a pixel...

Let me think if I can figure out a solution.

Ciao,
Paolo

>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.idlcoyote.com/>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
