
Subject: Re: colorbar help

Posted by [R. Bauer](#) on Wed, 01 Oct 1997 07:00:00 GMT

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Rick McDaniel wrote:

```
>
> Does IDL have a generic procedure to output a colorbar on a contour plot?
>
> I found a procedure on the web, and it works great when device is set to
> the display but it doesn't look the same when device is set to PS. Here's
> my procedure to read in a data file, call a procedure to calculate the
> wavelet transform, and plot the results:
>
> *****
> READCOL, 'oct30.dat', time1, data ; reads in the data file
> wave = WAVELET(data,0.0155,PERIOD=period,COI=coi,/PAD,SIGNIF=signif ,SCALE=scale)
> freq = 6/(scale)
> LOADCT,39
>
> !P.font = 0 ;i want hardware fonts
>
> mydevice = !D.NAME
> set_plot, 'PS'
>
> device, filename = 'oct30.ps', /COLOR, /inches
>
> CONTOUR,ABS(wave)^2,time1,freq,xtickformat='xticks',$
> XSTYLE=1,XTITLE='Time',YTITLE='Frequency (Hz)', $
> TITLE='Oct30 Wavelet Power Spectrum',YRANGE=[MIN(freq), 10], $
> pos = [0.2, 0.2, 0.9, 0.9], /YLOG, YSTYLE=1, NLEVELS=25,/FILL
>
> dispbar,250,10,200,5,/Border ; display the color bar, see below
>
> device, /close
>
> set_plot, mydevice
> *****
>
> Here's the procedure to display the colorbar:
>
> *****
> pro dispbar,cbllx,cbllly,cbx,cby,Border=Border
> ;+
> ; NAME:
> ; DISPBAR
> ; DESCRIPTION:
> ; This procedure creates and displays a color bar on the screen.
> ; CALLING SEQUENCE:
```


b) Your colorbar could not be used to print the right levels if nlevels was used.

c) to print tv ed data you have to open the device with bits_per_pixel=8. If you don't you'll will get in the most cases grey to black colorbars.

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