Subject: Re: Color background with PLOT
Posted by Jeff Hester on Sun, 19 Nov 2006 01:00:23 GMT
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David Fanning wrote:

> Matt Harner writes:
>
>
>> I'd like to have a color background on a plot using direct graphics.
>> Instead of the built in background using the BACKGROUND keyword to
>> PLOT, I'd like the background to only be behind the plotted data, not
>> the entire window (axis, ticks, title, etc). The only way I have found
>> to do this is to draw a colored box with POLYFILL in the area that I
>> desire, but then the axis tick marks are under the polygon. Is there
>> any way to do this while still maintaining the plot tick marks?
>
>
> If you position your plot with the POSITION keyword, then
> you can draw your background polygon first into that position,
> then draw your plot with the NOERASE keyword set. (You might
> have to erase the window first with the ERASE command. This
> would be a good time to get the area outside the polygon
> the color you want, since you can use the COLOR keyword
> here as well.)
>
> Direct graphics commands just put pixels on top of pixels,
> so sometimes you have to "layer" your graphics commands
> to achieve the results you want. The NOERASE keyword is
> a great help when you are re-drawing axis tick marks and
> the like. :-)
>
>   Erase, COLOR=FSC_COLOR('ivory')
>   p = [0.15, 0.15, 0.9, 0.9]
>   PolyFill, [p[0],p[0],p[2],p[2],p[0]], $
>   [p[1],p[3],p[3],p[1],p[1]], $
>   COLOR=FSC_COLOR('sky blue'), /NORMAL
>   Plot, findgen(11), COLOR=FSC_COLOR('red'), $
>   POSITION=p, /NOERASE
>
> Cheers,
>
> David

Or you can be exquisitely inelegant and draw your axes with
plot,/nodata, do the polyfill using data coordinates, then do your plot
with plot,/noerase.

For various reasons (like inertia) I mostly use direct graphics, so
frequently redo things in a plotting sequence to get the layering right.

Cheers,
Jeff