
Subject: Re: color plot over greyscale image - postscript

Posted by [Gray](#) on Mon, 24 May 2010 21:13:41 GMT

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On May 24, 4:50 pm, David Fanning <n...@dfanning.com> wrote:

> Gray writes:

>> Okay, still not working, but in a different way. I tried to do this

>> systematically, doing a .RESET to clear everything. Here's my code

>> (using random x and y values for the overplot):

>

>> set_plot, 'ps'

>> img = readfits('myimage.fits')

>> img_sz = size(img,/dim)

>> keywords = psconfig(/nogui,/encapsul,/color,/inches,xsize=6,\$

>> ysize=6.*img_sz[0]/img_sz[1],filename='myimage.eps')

>> device, _extra=keywords

>> tvimage, img, /axes, axkey={xstyle:9,ystyle:9}, \$

>> xra=[0,img_sz[0]-1], yra=[0,img_sz[1]-1]

>> x = randomu(seed,100)*(img_sz[0]-1)

>> y = randomu(seed,100)*(img_sz[1]-1)

>> loadct, 13, /silent

>> oplot, x, y, psym=4, color=fsc_color('green')

>> oplot, x+1,y+1,psym=1, color=fsc_color('red')

>> oplot, x-1,y-1,psym=6, color=fsc_color('yellow')

>> device, /close

>> set_plot, 'x'

>

>> When I do this, I have two problems: 1) my points (if they overplot

>> at all, I'm not 100% convinced) are in greyscale, even though I loaded

>> a new color table, and 2) I've now realized that even passing those

>> black against the border of a complicated greyscale image, but it's

>> there.

>

> OK, no grey-scale color table is loaded before

> you display the image. So whatever colors happen

> to be loaded, will be what the image uses.

>

> Then, if you are going to use FSC_COLOR for the

> overlay colors, there is no need to load a color

> table before you draw your overlays. FSC_COLOR

> will load its own color in the color table before

> it does the drawing. (And it will dirty the one

> and only color table, which is why you have to

> refresh it BEFORE you display your image!)

>

> If your points are overlaying (only you can tell

> this for sure), I can assure you they are NOT

> overlaying with gray-scale colors. FSC_COLOR has

> worked for a *long* time. It is *extremely* unlikely
> that it would be broken, expecially with the colors
> "red", "green" and "yellow". It's more likely that
> you aren't drawing in a data space you think you
> are drawing into.
>
> What happened to your plot command? I thought that
> was how you were setting up the data space? TVImage
> may look to you like it is "doing the right thing",
> but it is actually designed to "do the same wrong
> thing the TV command does". That is to say, it will
> not establish a data coordinate system on its own.
> It seems to me the data "space" where you are drawing
> your overplots is probably in some random data space
> in which you accidentally drew a plot in your IDL
> session.
>
> I'd go back to the PLOT command, put your image on it,
> then try to draw into it.
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thue. ("Perhaps thos speakest truth.")

Correct on all counts! I added loadct, 0, /silent after set_plot,
'ps', then went back to declaring my axes beforehand with plot, /
nodata, x/ystyle=9 and tvimage, /overplot. I think my original
problem was that I had called fsc_color before running my tvimage.
