
Subject: Re: Simple issue with PLOTS?

Posted by [BillG](#) on Tue, 09 Oct 2012 17:53:59 GMT

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On Tuesday, October 9, 2012 11:08:03 AM UTC-6, Rob wrote:

> Hi,
>
> It's been quite a while since I've programmed in IDL but I have a
>
> problem with something very basic. I am drawing a grid using the PLOTS
>
> command but the final lines are not being drawn (i.e. the top and
>
> rightmost lines). I might use a hack to get it to look right (i.e.
>
> enlarge the window by a few pixels) but it's not a very elegant
>
> solution. Below I list a simple procedure that shows the issue. You
>
> should see a window pop up with most of the grid except for lines
>
> along the top and along the right. Any help on my pedestrian
>
> problem? :o)
>
> Thanks,
>
> Rob
>
>
>
> pro test_grid_win
>
> ; Test program that writes out a PNG file that captures the screen
>
> with
>
> ; a grid drawn on it.
>
> xsize = (ysize = 500)
>
> device,decomposed = 0 & loadct,0,/silent
>
> nx = 10
>
> window,0,xsize = xsize,ysize = ysize
>
> dx = 1./float(nx)

```

>
> erase,255B
>
> for j = 0,nx do plots,[j*dx,j*dx],[0.0,1.0],/normal,color = 0B
>
> for j = 0,nx do plots,[0.0,1.0],[j*dx,j*dx],/normal,color = 0B
>
> ;filename = 'e:\test.png'
>
> ;WRITE_PNG, filename, TVRD(/TRUE)
>
> end

```

Rob,

Try this version of your program. The comments explain what you need to change and why.

Cheers,
Bill Gallery

```

pro test_grid_win
; Test program that writes out a PNG file that captures the screen with
; a grid drawn on it.
xsize = (ysize = 500)
device,decomposed = 0 & loadct,0,/silent
nx = 10
window,0,xsize = xsize,ysize = ysize
dx = 1./float(nx)
;;erase,255B
!p.BACKGROUND=255b ;set the default background color
!p.COLOR=0 ;set the default color of plot axes, points, lines, ...

;;plots places points on an already specified grid
;;You need to first use plot (no s) to set up the scale of the plot and
;;to draw the axes
;;the x and y data set the scale of the plot to x=[0,1], y=[0,1]
;;xgrid=1 and ygrid=1 ensure that the x and y axes are exacty as specified and
;;not expanded
;;/nodata prevents data from actually being plotted
plot, [0,1],[0,1], /nodata, xgrid=1, ygrid=1

;;use oplot to place the data on the existing plot (plots will also work)
;;/normal says that the data is in 'normal' coordinates which vary from
;;[0,0] at the lower left of the screen to [1,1] to the upper right:
;;this is not what you want. You want to draw on the existing data scale
;;which has been created with the plot command.
;;The color of the data has already been specified with !p.color
for j = 0,nx do oplot,[j*dx,j*dx],[0.0,1.0] ;;,/normal,color = 0B

```

```
for j = 0,nx do oplot,[0.0,1.0],[j*dx,j*dx] ;,/,normal,color = 0B
;filename = 'e:\test.png'
;WRITE_PNG, filename, TVRD(/TRUE)
end
```
