Subject: Re: PRINTER device, TV, and image position Posted by David Fanning on Tue, 27 Nov 2001 15:05:09 GMT

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Ray Muzic (muzic@uhrad.com) writes:

- > Is it just me or does 'PRINTER' device ignore (x,y)
- > position specified in the TV command?
- > : TV, Image [, X, Y [, Channel]]

>

- > I am trying to put three images next to each other on a page.
- > Of course I could make a single array with the composite
- > image but that seems unnecessary as the 'PS' device honored
- > the "x,y,/centimeters", arguments specified in TV.
- > It seems to be more than the 'PRINTER' device just ignoring
- > /centimerers since I tried x position of 600 (dots) on a
- > 600 dpi printer and the image position was not altered.

Lot's of things don't work right in the PRINTER device. :-)

I'd do something like this to get three images centered on a landscape page of output:

thisDevice = !D.Name
keywords = PSWindow(/Printer, /Landscape, Fudge=0.25)
Set_Plot, 'PRINTER'
Device, Landscape = keywords.landscape
Device, _Extra=keywords
!P.Multi=[0,3,1]
TVImage, image1, /Keep_Aspect
TVImage, image2, /Keep_Aspect
TVImage, image3, /Keep_Aspect
!P.Multi = 0
Set_Plot, thisDevice

You can learn more about how the PRINTER device works from this article:

http://www.dfanning.com/tips/sendtoprinter.html

Cheers,

David

--

David W. Fanning, Ph.D. Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: PRINTER device, TV, and image position Posted by David Fanning on Tue, 27 Nov 2001 15:14:29 GMT

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David Fanning (david@dfanning.com) writes:

- > I'd do something like this to get three images centered
- > on a landscape page of output:

>

- > thisDevice = !D.Name
- > keywords = PSWindow(/Printer, /Landscape, Fudge=0.25)
- > Set Plot, 'PRINTER'
- > Device, Landscape = keywords.landscape
- > Device, _Extra=keywords
- > !P.Multi=[0,3,1]
- > TVImage, image1, /Keep_Aspect
- > TVImage, image2, /Keep_Aspect
- > TVImage, image3, /Keep_Aspect
- > !P.Multi = 0
- > Set_Plot, thisDevice

Whoops! Of course, there would be a CLOSE_DOCUMENT in there somewhere. :-)

thisDevice = !D.Name

keywords = PSWindow(/Printer, /Landscape, Fudge=0.25)

Set Plot, 'PRINTER'

Device, Landscape = keywords.landscape

Device, Extra=keywords

!P.Multi=[0,3,1]

TVImage, image1, /Keep Aspect

TVImage, image2, /Keep_Aspect

TVImage, image3, /Keep_Aspect

!P.Multi = 0

Device, /Close_Document

Set_Plot, thisDevice

Cheers,

David

--

David W. Fanning, Ph.D. Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: PRINTER device, TV, and image position

Posted by Liam E. Gumley on Tue, 27 Nov 2001 15:15:02 GMT

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Ray Muzic wrote:

- > Is it just me or does 'PRINTER' device ignore (x,v)
- > position specified in the TV command?
- > : TV, Image [, X, Y [, Channel]]

>

- > I am trying to put three images next to each other on a page.
- > Of course I could make a single array with the composite
- > image but that seems unnecessary as the 'PS' device honored
- > the "x,y,/centimeters", arguments specified in TV.
- > It seems to be more than the 'PRINTER' device just ignoring
- > /centimerers since I tried x position of 600 (dots) on a
- > 600 dpi printer and the image position was not altered.

>

- > Comments?
- > Workarounds?

I'd use a program such as IMDISP:

http://www.gumley.com/PIP/Free_Software.html

that allows the image position to be specified by a POSITION vector or the system variable !P.MULTI, e.g.,

entry_device = !d.name set_plot, 'PRINTER' !p.multi = [0, 3, 1, 0, 0] imdisp, dist(256) imdisp, dist(256) imdisp, dist(256) device, /close_document set_plot, entry_device

IMDISP has other advantages as well:

- Supports WIN, MAC, X, CGM, PCL, PRINTER, PS, and Z graphics devices,
- Image is automatically byte-scaled (can be disabled),
- Custom byte-scaling of Pseudo color images via the RANGE keyword,
- Pseudo (indexed) color and True color images are handled automatically,

- 8-bit and 24-bit graphics devices are handled automatically,
- Decomposed color settings are handled automatically,
- Image is automatically sized to fit the display (can be disabled),
- Color table splitting via the BOTTOM and NCOLORS keywords,
- Image aspect ratio customization via the ASPECT keyword.
- Resized images can be resampled (default) or interpolated,
- Top down image display via the ORDER keyword (!ORDER is ignored),
- Selectable display channel (R/G/B) via the CHANNEL keyword,
- Background can be set to a specified color via the BACKGROUND keyword,
- Screen can be erased prior to image display via the ERASE keyword,
- Plot axes can be drawn on the image via the AXIS keyword,
- Photographic negative images can be displayed via the NEGATIVE keyword.

Cheers, Liam. Practical IDL Programming http://www.gumley.com/

Subject: Re: PRINTER device, TV, and image position Posted by nobody@nowhere.com (S on Tue, 27 Nov 2001 16:08:54 GMT View Forum Message <> Reply to Message

On 27 Nov 2001 06:48:09 -0800, Ray Muzic <muzic@uhrad.com> wrote:

- > Is it just me or does 'PRINTER' device ignore (x,y)
- > position specified in the TV command?
- > : TV, Image [, X, Y [, Channel]]

_

- > I am trying to put three images next to each other on a page.
- > Of course I could make a single array with the composite
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- > the "x,y,/centimeters", arguments specified in TV.
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- > /centimerers since I tried x position of 600 (dots) on a
- > 600 dpi printer and the image position was not altered.

>

- > Comments?
- > Workarounds?

>

> Ray Muzic

I do exactly what you mention, overlaying 1,2 or 3 images on a graph page using tv and the ps device. You do set the !p.multi correctly? Here's what I do (some of the commands are other procedures I've written):

;this is the procedure to put an image into the graph window: ;first, you add [1,0,0,0,0] to !p.multi, forcing it not to erase the window

;on the second plot command. then, you use the x,y,xsize=,ysize=, /inches keywords to specify that you want the image in a certain place and a certain ;size on the plot window. ;;;;;;;;;;CAN YOU BELIEVE IT? I ACTUALLY DOCUMENTED SOMETHING!!!!!!; pro graphpic, edata, graphdata, imagedata back=!p.multi !p.multi=back+[1,0,0,0,0]; this disables clearing plot window. ;this size seems good (in mm, square image). pgsize, 15 plot, edata, graphdata, xtitle='Energy (eV)', ytitle='Counts',\$ xstyle=1,yrange=[0,1000] tvscl, rebin(imagedata, 186, 186), 3.7, 3.7, xsize=1.8, ysize=1.8, /inches arrow, 1.8548,550,1.8567,850,/data,/solid psoff !p.multi=back end Steve S. steve@NOSPAMmailaps.org remove NOSPAM before replying

Subject: Re: PRINTER device, TV, and image position Posted by muzic on Wed, 28 Nov 2001 14:54:06 GMT

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Steve,

I can do it with the 'PS' device. I am now trying to add 'PRINTER' device support.

nobody@nowhere.com (Steve Smith<steven_smith>) wrote in message news:<slrna07f0a.84g.nobody@pooh.nrel.gov>...

- > On 27 Nov 2001 06:48:09 -0800, Ray Muzic <muzic@uhrad.com> wrote:
- >> Is it just me or does 'PRINTER' device ignore (x,y)
- >> position specified in the TV command?
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>> Comments?

>> Workarounds? >> >> Ray Muzic > > I do exactly what you mention, overlaying 1,2 or 3 images on a graph page > using tv and the ps device. You do set the !p.multi correctly? Here's what > I do (some of the commands are other procedures I've written): > > ;this is the procedure to put an image into the graph window: > ;first, you add [1,0,0,0,0] to !p.multi, forcing it not to erase the window > ;on the second plot command. then, you use the x,y,xsize=,ysize=, /inches > ;keywords to specify that you want the image in a certain place and a certain > ;size on the plot window. > ;;;;;;;;;;CAN YOU BELIEVE IT? I ACTUALLY DOCUMENTED SOMETHING!!!!!!;; > pro graphpic,edata,graphdata,imagedata > back=!p.multi > !p.multi=back+[1,0,0,0,0] this disables clearing plot window. ;this size seems good (in mm, square image). > pgsize, 15 > plot, edata, graphdata, xtitle='Energy (eV)', ytitle='Counts',\$ > xstyle=1,yrange=[0,1000] > tvscl, rebin(imagedata, 186, 186), 3.7, 3.7, xsize=1.8, ysize=1.8, /inches > arrow, 1.8548,550,1.8567,850,/data,/solid

> psoff

> end

> !p.multi=back