Subject: Re: writing to 2 "windows" in idl?
Posted by jlaw on Thu, 18 Jan 1996 08:00:00 GMT
View Forum Message <> Reply to Message

In article 96Jan17130850@revelle.cdc.noaa.gov, cas@revelle.cdc.noaa.gov (Cathy Smith) writes:
>
> Hi- I'd like to write out character strings to a gif imagee and determine
> their lengths (in pixels).
> <snip>
> This works except that I cover up some
> lines on my original plot that I don't want covered. Is there a way to
> write to a "fake" device instead?
>
Does this help?

```
IDL> plot,cos(indgen(100)/7)
IDL> device,get_write_Mask=smask
IDL> print,smask
       255
IDL> device,set_write_mask=0 ; DO NOT WRITE TO ANY GRAPHICS PLANES
IDL> xyouts,50,0,'My string of text',wid=wid
IDL> print,wid
    0.131250
IDL> device,set_write_mask=smask ; WRITE TO ALL GRAPHICS PLANES AGAIN..
IDL> xyouts,50,0,'My string of text',wid=wid
```

You could probably also do this with
device,set_graphics_function=something. Table 3.4 in my online help...

best of luck
f.

Subject: Re: writing to 2 "windows" in idl?
Posted by hahn on Thu, 18 Jan 1996 08:00:00 GMT
View Forum Message <> Reply to Message

cas@revelle.cdc.noaa.gov (Cathy Smith) wrote:

> Hi- I'd like to write out character strings to a gif imagee and determine
> their lengths (in pixels). I can do this using xyouts and this works for
> most of what I want to do. However, now I would like to find the length
> of a character string BEFORE I write it out.

XYOutS has two keyword parameters that may help:

width=lg puts the length of the text into the variable lg.

Units is normalized coordinate units.

Charsize=-1 suppresses any graphical output.

> I tried writing out
> in the same color as my image to get the returned length and then writing
> it out again in the color I want. This works except that I cover up some
> lines on my original plot that I don't want covered. Is there a way to
> write to a "fake" device instead?

The above keywords should work with any device, no need to use a fake.

[remainder deleted]

Hope this helps
Norbert Hahn

Subject: Re: writing to 2 "windows" in idl?
Posted by steinhh on Thu, 18 Jan 1996 08:00:00 GMT
View Forum Message <> Reply to Message

In article <CAS.96Jan17130850@revelle.cdc.noaa.gov>, cas@revelle.cdc.noaa.gov (Cathy Smith) writes:
|>
|> Hi- I'd like to write out character strings to a gif imagee and determine
|> their lengths (in pixels). I can do this using xyouts and this works for
|> most of what I want to do. However, now I would like to find the length
|> of a character string BEFORE I write it out. I tried writing out
|> in the same color as my image to get the returned length and then writing
|> it out again in the color I want. This works except that I cover up some
|> lines on my original plot that I don't want covered. Is there a way to
|> write to a "fake" device instead?
|>

You could use e.g.,

```
GXnoop = 5   ; This graphics function does no operation on the screen
device,get_graphics_function=oldgraphics ; Store
device,set_graphics_function=GXnoop      ; Plot with the color that's there

 device,font='-adobe-helvetica-bold-r-normal--10-100-75-75-p- 60-iso8859-1'
xyouts, x+4, y, string, /device,width=namew ,charsize=1.2,color=44
mmwidth=namew*n1

device,set_graphics_function=oldgraphics ; Put it back

xyouts, x-mmwidth-4, y, string, /device, width=namew ,charsize=1.2,color=222
```

Stein Vidar

Subject: Re: writing to 2 "windows" in idl?
Posted by Eric Deutsch on Thu, 18 Jan 1996 08:00:00 GMT
View Forum Message <> Reply to Message

Cathy Smith wrote:
>
> Hi- I'd like to write out character strings to a gif imagee and determine
> their lengths (in pixels). I can do this using xyouts and this works for
> most of what I want to do. However, now I would like to find the length
> of a character string BEFORE I write it out. I tried writing out
> in the same color as my image to get the returned length and then writing
> it out again in the color I want. This works except that I cover up some
> lines on my original plot that I don't want covered. Is there a way to
> write to a "fake" device instead?

yes, there is a "Z-buffer" device which is a virtual device that lets you do these sorts of things, but...

> The relevant parts of my code are:
>
> tvlct,/GET,r,g,b
> window, colors=223,xsize=n1,ysize=n2
> etc.....
>
> device,font='-adobe-helvetica-bold-r-normal--10-100-75-75-p- 60-iso8859-1'

you are using an X hardware font here, and it is very unfortunate (but not surprising, I guess) that you cannot use X hardware fonts when using the Z device... As far as I know, the best you can do is use the Hershey fonts (or a bitmapped font solution). Anyone know otherwise??

> xyouts, x+4, y, string, /device,width=namew ,charsize=1.2,color=44
> mmwidth=namew*n1
> xyouts, x-mmwidth-4, y, string, /device, width=namew ,charsize=1.2,color=222

However, if I understand your coding here, it looks to me like you're trying to right-justify some text. IDL provides a nice facility for this with the xyouts ,ALIGN=1 keyword; and you can use ,ALIGN=0.5 to center text about the specified X,Y coordinates.

Hope this helps..

Eric

--
---------- ----------
Eric Deutsch email: deutsch@astro.washington.edu
Department of Astronomy Voice: (206) 616-2788
University of Washington FAX: (206) 685-0403
Box 351580 WWW: http://www.astro.washington.edu/deutsch
Seattle, WA 98195-1580 Physics/Astronomy Bldg., Room B356F

Subject: Re: writing to 2 "windows" in idl?
Posted by Mirko Vukovic on Fri, 19 Jan 1996 08:00:00 GMT
View Forum Message <> Reply to Message

cas@revelle.cdc.noaa.gov (Cathy Smith) wrote:
>
> Hi- I'd like to write out character strings to a gif imagee and determine
> their lengths (in pixels). I can do this using xyouts and this works for
> most of what I want to do. However, now I would like to find the length
> of a character string BEFORE I write it out. I tried writing out
> in the same color as my image to get the returned length and then writing
> it out again in the color I want. This works except that I cover up some
> lines on my original plot that I don't want covered. Is there a way to
> write to a "fake" device instead?

The trick I heard from a former colleague of mine (PHP) is to write using
xyouts, way out in the left field, meaning way outside the plot, and still
use xyouts to return the string length. So if your plot window covers
coordinates (0,0) to (10,10), then xyout,-100,-100, blah...

--
Mirko Vukovic, Ph.D. mirko.vukovic@grc.varian.com
Varian Research Center Phone: (415) 424-4969
3075 Hansen Way, M/S K-109 Fax: (415) 424-6988
Palo Alto, CA 94304-1025
