Subject: Re: Mac display help

Posted by davidf on Wed, 25 Aug 1999 07:00:00 GMT

View Forum Message <> Reply to Message

Barbara A Cohen (bcohen@lpl.arizona.edu) writes:

- > Hi, I have been using idl for about a year on a UNIX system, where I output
- > everything to a postscript file, looked at the postscript, and made
- > adjustments as necessary to xyouts, etc. I have just gotten idl for
- > my Mac and of course can't do things that way. I tried installing
- > GhostScript but it makes my computer crash every time. What I'd like
- > to do is have a display window that at least positions everything the way
- > it will come out when I write to postscript. As it is now, the positions
- > and thicknesses are all weird. I'm sorry if this is an old question
- > but does anyone know how to deal with the Mac display windows?

Uh, normalized coordinates. All the time. Every time. Every where. :-)

Cheers.

David

P.S. Lot's of good tips about PostScript output in the Producing Perfect PostScript Output section of my IDL Tips page:

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

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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

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

Subject: Re: Mac display help

Posted by davidf on Wed, 25 Aug 1999 07:00:00 GMT

View Forum Message <> Reply to Message

Barbara A Cohen (bcohen@lpl.arizona.edu) writes:

- > Hi, I have been using idl for about a year on a UNIX system, where I output
- > everything to a postscript file, looked at the postscript, and made
- > adjustments as necessary to xyouts, etc. I have just gotten idl for
- > my Mac and of course can't do things that way. I tried installing
- > GhostScript but it makes my computer crash every time. What I'd like
- > to do is have a display window that at least positions everything the way

- > it will come out when I write to postscript. As it is now, the positions
- > and thicknesses are all weird. I'm sorry if this is an old question
- > but does anyone know how to deal with the Mac display windows?

Uh, normalized coordinates. All the time. Every time. Every where. :-)

Cheers,

David

P.S. Lot's of good tips about PostScript output in the Producing Perfect PostScript Output section of my IDL Tips page:

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

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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

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

Subject: Mac display help Posted by bcohen on Thu, 26 Aug 1999 07:00:00 GMT

View Forum Message <> Reply to Message

Hi, I have been using idl for about a year on a UNIX system, where I output everything to a postscript file, looked at the postscript, and made adjustments as necessary to xyouts, etc. I have just gotten idl for my Mac and of course can't do things that way. I tried installing GhostScript but it makes my computer crash every time. What I'd like to do is have a display window that at least positions everything the way it will come out when I write to postscript. As it is now, the positions and thicknesses are all weird. I'm sorry if this is an old question but does anyone know how to deal with the Mac display windows? Thanks in advance for anyone's suggestions...

Barbara Cohen] bcohen@lpl.arizona.edu

--

Subject: Re: Mac display help

Posted by davidf on Thu, 26 Aug 1999 07:00:00 GMT

Liam Gumley (Liam.Gumley@ssec.wisc.edu) writes:

- > To create a graphics window with the same aspect as a portrait or landscape
- > page:

Liam supplies some good advice here.

I tend to work the other way around. I want my PostScript "window" to have the same aspect ratio as the current graphics window. I do this:

```
keywords = PSWindow()
Set_Plot, 'PS'
Device, _Extra=keywords
```

And I am ready to go.

You can find the PSWINDOW program on my web page:

http://www.dfanning.com/programs/pswindow.pro

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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

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

Subject: Re: Mac display help Posted by Liam Gumley on Thu, 26 Aug 1999 07:00:00 GMT View Forum Message <> Reply to Message

To create a graphics window with the same aspect as a portrait or landscape page:

;- Create window with portrait aspect device, get_screen_size=screen_size ysize = screen[1] - 100 xsize = long(ysize * (8.5 / 11.0)) window, /free, xsize=xsize, ysize=ysize

:- Create window with landscape aspect

device, get_screen_size=screen_size
xsize = screen[1] - 100
ysize = long(xsize * (8.5 / 11.0))
window, /free, xsize=xsize, ysize=ysize

;- To set the vector fonts to an appropriate size device, set_character_size=[10, 12]

To set up Postscript portrait and landscape mode pages:

- ;- Portrait mode on 8.5 x 11 in. page with 0.75 in. margin device, /inches, xsize=7.0, ysize=9.5, xoffset=0.75, yoffset=0.75
- ;- Landscape mode on 11 x 8.5 in. page with 0.75 in. margin device, /inches, xsize=9.5, ysize=7.0, xoffset=0.75, yoffset=10.25

If you then use normalized coordinates and/or !p.multi for positioning, your Postscript output should look just about the same as it does in a graphics window.

Cheers, Liam.

--

Liam E. Gumley
Space Science and Engineering Center, UW-Madison
http://cimss.ssec.wisc.edu/~gumley

Subject: Re: Mac display help Posted by woodford on Thu, 26 Aug 1999 07:00:00 GMT View Forum Message <> Reply to Message

In article <7q23jj\$7h1\$1@news.ccit.arizona.edu>, bcohen@lpl.arizona.edu (Barbara A Cohen) wrote:

- > I tried installing
- > GhostScript but it makes my computer crash every time.

What ghostscript are you using? I have done fine with MacGS 5.50, although it's a bit slow.

Paul Woodford woodford@essexcorp.com

-----= Posted via Newsfeeds.Com, Uncensored Usenet News ==-----

Subject: Re: Mac display help

Posted by Liam Gumley on Thu, 26 Aug 1999 07:00:00 GMT

View Forum Message <> Reply to Message

Barbara A Cohen wrote:

- > Hi, I have been using idl for about a year on a UNIX system, where I output
- > everything to a postscript file, looked at the postscript, and made
- > adjustments as necessary to xyouts, etc. I have just gotten idl for
- > my Mac and of course can't do things that way. I tried installing
- > GhostScript but it makes my computer crash every time. What I'd like
- > to do is have a display window that at least positions everything the way
- > it will come out when I write to postscript. As it is now, the positions
- > and thicknesses are all weird. I'm sorry if this is an old question
- > but does anyone know how to deal with the Mac display windows? Thanks
- > in advance for anyone's suggestions...

Barbara,

David's previous comments about normalized coordinates are very important. What he means is that everything on your display should be positioned using normalized coordinates, not pixel coordinates. Another tip is to create a display window which has the same aspect as a printed page. The following example shows how to do this for Landscape output. Start a new IDL session, and try the following:

- ;- Create a graphics window with the same aspect as a landscape page device, true=24, decomposed=0, retain=2 window, /free, xsize=924, ysize=714 device, set character size=[10, 12]
- ;- Display a surface plot and label loadct, 0 shade_surf, dist(32), position=[0.2, 0.2, 0.5, 0.5], charsize=2 xyouts, 0.75, 0.75, 'IDL Surface Plot', /normal, align=0.5, charsize=2
- ;- Change to Postscript landscape mode set_plot, 'PS' device, /landscape, /color, bits=8
- ;- Display a surface plot and label loadct, 0 shade_surf, dist(32), position=[0.2, 0.2, 0.5, 0.5], charsize=2 xyouts, 0.75, 0.75, 'IDL Surface Plot', /normal, align=0.5, charsize=2

;- Close the Postscript file device, /close

You should see that the Postscript output looks very similar to the display window. Note how the POSITION keyword was used to position the surface plot using normal coordinates, which start at 0.0,0.0 at the bottom left, and end at 1.0,1.0 at upper right. For more information, type

? normal coordinates

at the IDL command line.

Cheers, Liam.

PS: *And* check out David's tips for perfect Postscript output.

--

Liam E. Gumley
Space Science and Engineering Center, UW-Madison
http://cimss.ssec.wisc.edu/~gumley

Subject: Re: Mac display help Posted by m218003 on Fri, 27 Aug 1999 07:00:00 GMT

View Forum Message <> Reply to Message

Hell! I am just trying to make IDL popular among my colleagues over here:

- ;- Create window with portrait aspect device, get_screen_size=screen_size ysize = screen[1] 100 xsize = long(ysize * (21./29.7)) ; <------window, /free, xsize=xsize, ysize=ysize
- ;- Create window with landscape aspect device, get_screen_size=screen_size xsize = screen[1] 100 ysize = long(xsize * (21./29.7)) ; <------window, /free, xsize=xsize, ysize=ysize
- ;- To set the vector fonts to an appropriate size device, set_character_size=[10, 12]

To set up Postscript portrait and landscape mode pages:

;- Portrait mode on A4 page with 2 cm margin <-----device, /inches, xsize=21./2.54, ysize=29.7/2.54, xoffset=2./2.54, \$

```
yoffset=2./2.54
```

;- Landscape mode on A4 page with 2 cm margin <-----device, /inches, xsize=29.7/2.54, ysize=21./2.54, xoffset=2./2.54, \$ yoffset=(29.7-2.)/2.54

If you then use normalized coordinates and/or !p.multi for positioning, your Postscript output should look just about the same as it does in a graphics window.

But otherwise: Thanks a lot for this, Liam!!

Martin