## Subject: Re: Xwindow, TVimage and PostScript fonts
Posted by davidf on Thu, 19 Aug 1999 07:00:00 GMT

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Roy E. Hansen (roy.hansen@triad.no) writes:

> I know this post should be sent directly to David Fanning
> but he answers all the questions on this newsgroup anyhow :-)

I really need to get a life. :-(

I'm making a vow to post only once a week, and
then only if someone really riles me up about color. :-)

Before I go....

> I have been playing around with David Fanning's example programs to
> see if I can snatch a few ideas for my next project. BTW, Xwindow is a
> fantastic program.
>
> One thing that I need is a plot of an image with axis and a colorbar that
> easily can be printed to high quality PostScript.
> Easy, I though. Use xwindow, tvimage and colorbar as in the following
> example:
>
> ;------------- Start hurrah.pro -------------------
>
> PRO hurrah, image, Xxx=xxx, Yyy=yyy
>
>   erase
>   pos = [0.05, 0.1, 0.8, 0.9]
>   tvimage, image, position=pos
>   !p.position = pos
>   plot, xxx, yyy, /xsty, /ysty, /nodata, /noerase
>
>   colorbar, position=[0.85, 0.1, 0.95, 0.9], /VERT, /RIGHT
>
> END  ;------------ hurrah.pro ---------------------
>
>
> image = hanning(64) # hanning(64)
> xwindow, 'hurrah', image*200, Xxx=[0,1], Yyy=[0,1], /Out
>
> END ;-------------- main.pro ---------------------
>
> This works except one detail:
> How do I get readable fonts (i.e. PostScript and NOT Hershey fonts) on the PS output?

Well, before I answer this question for you, let me
point out that your ERASE command is already going to
hurt you in PostScript output, since that will force
the output onto the *next* page. You will get a blank
page every time you get output. Think of the trees!

So, I would fix both of these problems by writing
your HURRAH program like this:

```
 PRO hurrah, image, Xxx=xxx, Yyy=yyy

   IF !D.Name EQ 'PS' OR !D.Name EQ 'PRINTER' THEN BEGIN
 font = 0 ; or 1 if you want True-Type fonts
   ENDIF ELSE BEGIN
 erase
     font = -1
   ENDELSE
   pos = [0.05, 0.1, 0.8, 0.9]
   tvimage, image, position=pos
   !p.position = pos
   plot, xxx, yyy, /xsty, /ysty, /nodata, /noerase, FONT=font

   colorbar, position=[0.85, 0.1, 0.95, 0.9], /VERT, /RIGHT, FONT=font

 END  ;------------ hurrah.pro ----------------------
```

By the way, I just a moment ago got an e-mail from David Ritscher
(david.ritscher@bigfoot.com) who has sent me a new XWINDOW program
that has implemented a multiple-command-line functionality with
my LinkedList object. I haven't even had a chance to look at it
yet, but we may make it available for people to fool around with.
I've been working on a similar capability (also using that
incredibly useful LINKEDLIST object) in my little free time.

So, if you liked XWINDOW, just hang on a bit. Something better
may be just around the corner. :-)

Cheers,

David
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