
Subject: colorbar positioning in postscript

Posted by [jesscobrien](#) on Mon, 13 Nov 2006 14:29:16 GMT

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I am using David Fannings colorbar routine to place a colorbar on the RHS of my image which I want to write to postscript. Positioning both image and colorbar in normalised coords (using tvimage for the image). Thanks David for the great routines tvimage and colorbar. When writing to PS device, I am scaling the positions from normalised coords to the size of the PS image, but this is causing a call to axis in colorbar to crash with:

```
% AXIS: Data coordinate system not established.  
% Error occurred at: COLORBAR      353  
/usr/local/rsi/add-ons/fanning/colorbar.pro
```

Can someone point out where I went wrong? Relevant code below.

Thanks,
Jess

```
set_plot,'PS'  
postfile = dir + slash + 'disk_centroids_' + $  
    string(f='(i2.2)',loop_no) + '.ps'  
  
xsize = 4.0 & ysize = 4.5  
device,file=postfile,xsize=xsize,ysize=ysize,$  
    /inch, /color, bits_per_pixel=8  
  
; Define positions of image and colorbar  
pos_image = [0.15,0.15,0.75,0.95]  
pos_bar = [0.75,0.15,0.85,0.95]  
  
IF !d.name EQ 'PS' THEN BEGIN  
    pos_image = [pos_image[0]*xsize,pos_image[1]*ysize,$  
        pos_image[2]*xsize,pos_image[3]*ysize]  
    pos_bar = [pos_bar[0]*xsize,pos_bar[1]*ysize,$  
        pos_bar[2]*xsize,pos_bar[3]*ysize]  
ENDIF  
  
col_disk = 39  
loadct,col_disk,ncolors=ncol  
  
; Image  
tvimage,disk_scl[xrange[0]:xrange[1],yrange[0]:yrange[1]],$  
    position=pos_image,/KEEP_ASPECT_RATIO ; D.Fanning  
; Axes  
CONTOUR,disk_scl[xrange[0]:xrange[1],yrange[0]:yrange[1]],$
```

```
X[xrange[0]:xrange[1]],Y[yrange[0]:yrange[1]],$
position=pos_image,color=lab_col,$
/noerase,/nodata, $
XSTYLE=1,YSTYLE=1,$
XRANGE=[xmin,xmax],YRANGE=[ymin,ymax]
; Colorbar on RHS
colorbar,color=lab_col,$
position=pos_bar,$
vertical=1,right=1,$
bottom=lowest_col_incl,ncolors=ncol_incl,$
maxrange=maxdata,minrange=mindata,format='(f4.1)' ; D.Fanning

device, /close
set_plot,'X'
device,decomposed=0
```
