
Subject: cgAxis labels in different orientation in PS than on screen

Posted by [Brian Daniel](#) on Thu, 15 Sep 2011 21:00:06 GMT

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David, your code is too good. I've been lulled in to a false sense of security that all of the cg tools will work perfectly every time, and all my frustrations with dg will all fade away. I'm creating 3D scatter plots in a cgWindow using cgSurf to create the 3D space, cgAxis to create the axes where I want them, and cgPlotS to plot the data. Using cgWindow, I programmatically save these plots to image files via ImageMagick. The resulting postscript features the axis labels in either horizontal or vertical orientations, not the nice orientations in the direct graphics output on my screen.

Via postscript w/ vertical and horizontal text orientations:

http://dl.dropbox.com/u/20212184/usenet_example.png

without using postscript with nice text orientations but blocky text:

http://dl.dropbox.com/u/20212184/usenet_example_dg.png

Is there a way to get the orientations to be "pretty" in postscript?

Thanks.

-Brian J. Daniel

Code to illustrate the example:

```
pro usenet_label_example
```

```
data = randomn(1L,3,50)
```

```
min1 = min(data[0,*],Max=max1)
```

```
min2 = min(data[1,*],Max=max2)
```

```
min3 = min(data[2,*],Max=max3)
```

```
cgWindow
```

```
cgSurf,intarr(2,2),[0],[0],XRange=[min1,max1],$
```

```
YRange=[min2,max2],ZRange=[min3,max3],$
```

```
XStyle=5,YStyle=5,ZStyle=5,$
```

```
/Save,/NoData,Rotx=45,Rotz=45,/AddCmd
```

```
cgWindow,'cgAxis',100,0,0,XAxis=0,/T3D,XTitle='X Label',/AddCmd
```

```
cgWindow,'cgAxis',0,100,0,YAxis=0,/T3D,Ytitle='Y Label',/AddCmd
```

```
cgWindow,'cgAxis',0,0,100,ZAxis=0,/T3D,ZTitle='Z Label',/AddCmd
```

```
suppress = replicate(' ',7)
```

```
cgWindow,'cgAxis',0,0,100,ZAxis=1,/T3D,/
```

```
AddCmd,Ztickname=suppress,color=black
```

```
cgWindow,'cgPlotS',data[0,*],data[1,*],data[2,*],psym=1,/T3D ,/
```

```
Data,Color='black',/AddCmd  
cgControl,Create_PNG='usenet_example.png',IM_Raster=1  
cgControl,Create_PNG='usenet_example_dg.png',IM_Raster=0
```

```
END
```
