Subject: Re: Rotating plot
Posted by David Fanning on Thu, 07 Feb 2008 01:23:56 GMT

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hazel writes:

> Hi all,
>
> I have question pertaining to a 'would like to have - I'm sure IDL
> does it somehow' plot format.
>
> I would like to plot 2 plots side by side (I can do this).
>
> The first is Plot, x, y. The second is a histogram of number of
> samples vs. y which I would like to rotate so that the y axes of both
> plots are aligned.
>
> I'm currently doing:
>
> !P.MULTI=[0,2,1]
> set_plot, 'ps'
>
> DEVICE,FILENAME='plot.ps',/landscape, XSIZE=24.0, YSIZE=10.0, /cm
> ; translation
> and ;counterclockwise rotation about the z axis
> plot,x, y
>
> HIST_PLOT, y ; (Thank-you, Liam - a lifesaver)
>
> (Within which:
>
> plot, x,y, /T3D)
>
>
> But my plot rotates correctly but looks very squashed and elongated,
> yet I've not touched the dimensions of the plot (to my knowledge).

You are asking too much of !P.MULTI. It needs you to
leave *everything* up to it. When you throw T3D in
there, you totally screw up the system variables
!P.MULTI requires. You will want to position your
plots with the position keywords and NOERASE. Leave
!P.MULTI out of it. :-)

Something like this:

```
data = fix(randomu(seed, 100) * 10)
plot, data, position=[0.1, 0.1, 0.6, 0.9]
```

```
T3D, /RESET, TRANS=[0.0, -1.0, 0.0], ROT=[0,0,90]
plot, histogram(data), /noerase, $
  position = [0.1, 0.1, 0.9, 0.3], /T3D
```

I couldn't find Liam's Hist_Plot. Have you seen my
HistoPlot?

```
  IDL> Histoplot, Fix(RandomU(seed, 200)*20), $
        POLYCOLOR=['charcoal', 'steel blue'], /FILLPOLYGON
```

You can find more about it here:

  http://www.dfanning.com/graphics_tips/histoplot.html

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")