
Subject: Re: save axis

Posted by chris_torrence@NOSPAM on Tue, 03 Aug 2010 21:55:59 GMT

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On Aug 3, 12:35 pm, Haje Korth <hajeko...@gmail.com> wrote:

```
> one more quirk. the full plot code I use is
>
> plt=plot(loc,hist,/
> histogram,xrange=[0,100],yrange=[0,0.2],color='black',linestyle='solid',thick=2.5,$
> xtitle='AC
> Count',ytitle='N',title=region_a[i],axis_style=1,margin=[0.1 5,0.15,0.15,0.15])
> axs=axis('Y',location=[100,0],title='Cum.
> Probability',color='red',tickdir=0,textpos=1)
> axs.yrange=[0,1]
>
> As soon as I set the axis range, the title set in plt call moves to
> 0.2 in the middle of the plot. grrrrr.
>
> H
```

Hi Haje,

The new AXIS function works a bit differently than the direct graphics procedure. With the new graphics, the AXIS function cannot be used to change the plot range (i.e. there is no equivalent to the SAVE keyword).

Instead, you have two different routes you can take.

1. You can embed the new axis in the existing plot (like you were doing). To make this work, you will need to force the tick names to match the desired range. For example:

```
axs=axis('Y',location=[100,0],title='Cum. Probability', $
color='red',tickdir=0,textpos=1, $
tickvalues=[0,0.1,0.2], $
tickname=['0', '0.5', '1.0'])
```

Obviously this gets trickier when you have a varying Y range (not just hardcoded to 0 - 0.2).

2. The better way is to create a new plot coordinate system. This way you could have a new X and Y range (if you wanted), and you could even plot a second line. Here is some sample code:

```
loc = 10*findgen(11)
hist = 0.2*randomu(seed,11)
plt = barplot(loc,hist,bottom_values=hist, $
xrange=[0,100],yrange=[0,0.2], $
color='black',linestyle='solid',thick=2.5, $
```

```
xtitle='AC Count',ytitle='N',$  
axis_style=1,margin=[0.15,0.15,0.15,0.15])  
  
; Create a new plot coordinate system  
newDS = plot([0,100],[0,1],/current, /nodata, $  
    margin=[0.15,0.15,0.15,0.15], axis_style=0)  
axs=axis('Y',location=[100,0],title='Cum. Probability', $  
    target=newDS, $  
    color='red',tickdir=0,textpos=1)
```

Note the /nodata in the PLOT call.

Hope this helps.

Cheers,
Chris
ITTVIS
