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Subject: Re: save axis

Posted by [Haje Korth](#) on Wed, 04 Aug 2010 13:05:35 GMT

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Chris,

thanks for helping me out. I considered Option 1 and then dismissed it for lack of elegance. :-) Option 2 makes sense, not as simple as I had hoped for, but at least it works.

I still think that the plot title moving as a result of the `axs.yrange=[0,1]` command is a bug. I thought we had a similar exchange a while ago, but I am not entirely sure that this was the same issue. It may have been on moving x/y titles instead.

Cheers,  
Haje

On Aug 3, 5:55 pm, Chris Torrence <gorth...@gmail.com> wrote:

> 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=[0.15,0.15,0.15,0.15])  
>> axs=axis('Y',location=[100,0],title='Cum.  
>> Probability',color='red',tickdir=0,textpos=1)  
>> axs.yrange=[0,1]
```

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>  
>> 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
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>  
> Hi Haje,
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>  
> 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).
```

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>  
> Instead, you have two different routes you can take.
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>  
> 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
```

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