
Subject: Re: second Y axis.

Posted by [limiq](#) on Thu, 19 Dec 2013 14:18:25 GMT

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On Wednesday, December 18, 2013 7:07:14 PM UTC-5, David Fanning wrote:

> Lim writes:

>

>

>

>> I was wondering if someone has a suggestion to produce a second Y axis, using the coyote graphic libraries, similar to the figure at:

http://www2.astro.psu.edu/xray/docs/TARA/ae_users_guide/img1_05.png

>

>>

>

>> The second Y axis looks like is floating in the graph.

>

>>

>

>> I will appreciate any suggestions.

>

>

>

> Ah, I see. Well, this is one place where object graphics probably has an

>

> advantage over direct graphics. I think you are going to have to do

>

> something like this. Here is modified code from what you can find on my

>

> web page:

>

>

>

> PRO Additional_Axes_Plot

>

>

>

> ; Create some data.

>

> data_1 = cgScaleVector(cgDemodata(17), 0.0, 1.0)

>

> data_2 = cgScaleVector(cgDemodata(17), 0.0, 1000.0)

>

> data_3 = (Findgen(101)+1) / 5

>

>

>

> thick = (!D.Name EQ 'PS') ? 4 : 2

```

>
>
>
> ; Open a window and draw the plot without either of the Y axes.
>
> cgDisplay, 600, 450
>
> cgPlot, data_1, YStyle=4, Position=[0.15, 0.15, 0.7, 0.820], /NoData
>
>
>
> ; Draw the first Y axis in red.
>
> cgAxis, YAxis=0.0, /Save, Color='red7', YTitle='Data 1'
>
> cgOPlot, data_1, Color='red7', Thick=thick
>
>
>
> ; Draw the second Y axis in green.
>
> cgAxis, YAxis=1.0, /Save, Color='grn7', YTitle='Data 2', $
>
>   YRange=[0,1000]
>
> cgOPlot, data_2, Color='grn7', LineStyle=2, Thick=thick
>
>
>
> ; Draw the third Y axis in blue.
>
> thisWindow = !D.Window
>
> cgDisplay, !D.X_Size, !D.Y_Size, /Free
>
> cgPlot, data_1, YStyle=4, Position=[0.15, 0.15, 0.7, 0.650], /NoData
>
> WDelete, !D.Window
>
> WSet, thisWindow
>
>
>
> cgAxis, 0.85, 0.15, /Normal, YAxis=1.0, /Save, Color='blu7', $
>
>   YTitle='Data 3', YRange=[0.1,100], /YLog
>
> cgOPlot, data_3, Color='blu7', LineStyle=1, Thick=thick

```

>
>
>
>
>
>
> END ;*****
>
>
>
>
> Cheers,
>
>
>
> David
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Hi David, yes, your solution is very cool. thank you so much.
