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Subject: Re: Problem with multi plot  
Posted by [David Fanning](#) on Wed, 13 Aug 2008 13:07:54 GMT  
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Gaurav writes:

```
> I am trying to display the following data on a single plot.  
>  
> xdata_area = [10, 20, 30, 40, 50]  
> xdata_vol = [112, 224, 336, 448, 560]  
> ydata = [20, 40, 60, 80, 100]  
>  
> Note that the y-values for both are the same. I would like to have a  
> graph with two x-axes, with different ranges and the plots in two  
> different colors. Following is the code I wrote-it can be copy pasted  
> and run. I shall point out my troubles after that:
```

You need to add a SAVE keyword to your AXIS command,  
then just OPLOT your second data set.

Typically, if you want just the data in different colors,  
you draw the PLOT command with the NODATA keyword set,  
then OPLOT your data in whatever color you like.

```
data = Randomu(-3L, 11) * 10  
Plot, data, /NODATA, YSTYLE=9, BACKGROUND=FSC_Color('ivory'), $  
  COLOR=FSC_Color('navy')  
Oplot, data, Color=FSC_Color('dodger blue')  
AXIS, YAXIS=1, YRANGE=[0,100], /SAVE, COLOR=FSC_Color('navy')  
Oplot, Reverse(data * 7.5), Color=FSC_Color('crimson')
```

Cheers,

David

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

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Subject: Re: Problem with multi plot  
Posted by [Gaurav](#) on Thu, 14 Aug 2008 07:09:39 GMT  
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Dear Dr. Fanning,  
Thank you very much. The SAVE keyword saved the day for me.

That solves my problems (a) and (b) completely. In order to solve (c), I just had to adjust the values to YMARGIN keyword in PLOT.

Regards  
Gaurav

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