
Subject: Re: Adjacent plot question

Posted by [David Fanning](#) on Thu, 07 Dec 2006 00:05:20 GMT

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Richard G. French writes:

> I'd like to have three vertical plots abutted vertically, with the bottom
> plot having the labels on the x axis and the other plots just having tick
> marks. I can use the YMARGIN=[lower,upper] keyword to the plots, but I have
> not succeeded in getting all the plot boxes to have the same size, because
> the bottom plot gets vertically scrunched in order to have room for the x
> axis tick mark labels. Does someone have a handy driver routine to handle
> this, or do I need to fiddle around with the POSITION keyword? Even here,
> how can I make sure that the axis boxes all have the same size? Thanks!

Here is how I make a stacked ladder plot:

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

Unfortunately, you have to fool around with POSITION,
I think. What you could do, to make this easy on yourself,
is something like this:

```
Window, XSize=300, YSize=600 ; Window for plot.  
p = Aspect(3.0) ; normalized coordinates for 3/1 plot ratio  
p1 = p[1]  
len = (p[3] - p[1]) / 3  
p2 = p1 + len  
p3 = p1 + (2*len)  
p4 = p[2]
```

Now p1 through p4 are the Y values you need (in normalized
coordinates) for the three equal-area plots. p[0] and p[2]
are the x coordinates.

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.")

Subject: Re: Adjacent plot question

Posted by [JD Smith](#) on Thu, 07 Dec 2006 00:36:14 GMT

On Wed, 06 Dec 2006 18:49:23 -0500, Richard G. French wrote:

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> plot having the labels on the x axis and the other plots just having tick
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> axis tick mark labels. Does someone have a handy driver routine to handle
> this, or do I need to fiddle around with the POSITION keyword? Even here,
> how can I make sure that the axis boxes all have the same size? Thanks!

Just cleaned this up:

http://turtle.as.arizona.edu/idl/gang_plot_pos.pro

It uses _EXTRA as a trick to get the tick labeling correct, and can abut
any number of plots horizontally and vertically.

JD

Subject: Re: Adjacent plot question

Posted by [Richard French](#) on Thu, 07 Dec 2006 01:21:36 GMT

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On 12/6/06 7:36 PM, in article
pan.2006.12.07.00.36.13.873885@as.arizona.edu, "JD Smith"
<jdsmith@as.arizona.edu> wrote:

> On Wed, 06 Dec 2006 18:49:23 -0500, Richard G. French wrote:
>
>> I'd like to have three vertical plots abutted vertically, with the bottom
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> any number of plots horizontally and vertically.
>
> JD

Very slick! It's nice to see an example of _EXTRA as well. Many thanks!

And thanks, David, for the alternative approach, which I was fiddling around with while you were cleaning house.

Dick
