
Subject: Re: Stackplot without axis?

Posted by [David Fanning](#) on Mon, 10 Oct 2005 15:24:18 GMT

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caitouer writes:

> I tried to plot stackplot with several lines. Basically,
> I hope to get something like when you use !P.MULTI=[0,1,2]
> to plot the figure one after another. But I do not want
> to plot the XAXIS between the figures. Can I hide the axis
> by some way? Here is my "silly" try:
> -----
> Though I almost got what I want, it is painful! Any better
> way to do this?

Oh, yes, there are *much* better ways. :-)

Here is an example of a "stacked" plot:

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

You can turn off the XAXIS with XSTYLE=4. Or turn off box
axes with XSTYLE=8, etc.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Stackplot without axis?

Posted by [Michael Wallace](#) on Mon, 10 Oct 2005 15:28:49 GMT

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plot, x, y, XSTYLE=4

That will suppress the entire X axis.

-Mike

Subject: Re: Stackplot without axis?

Posted by [caitouer](#) on Mon, 10 Oct 2005 15:51:18 GMT

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Thanks for your quick reply! It becomes easy with deleting axis between figures now (I can not believe how easy it is : o). But how about if I want to add xaxis and yaxis for the stackplot? I failed by doing this:

```
-----  
;How can I use 'norm' in axis?  
axis, xaxis=0,0,0,/norm  
axis, xaxis=1,0,1,/norm  
axis, yaxis=0,0,0,/norm  
axis, yaxis=1,1.0,/norm  
-----
```

Thanks again!
Caitouer

Subject: Re: Stackplot without axis?
Posted by [caitouer](#) on Mon, 10 Oct 2005 15:51:58 GMT
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Thanks, Mike! It works!

Subject: Re: Stackplot without axis?
Posted by [David Fanning](#) on Mon, 10 Oct 2005 17:05:52 GMT
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caitouer writes:

> Thanks for your quick reply! It becomes easy with deleting axis
> between figures now (I can not believe how easy it is : o). But
> how about if I want to add xaxis and yaxis for the stackplot? I failed
> by doing this:

```
>  
> -----  
> ;How can I use 'norm' in axis?  
> axis, xaxis=0,0,0,/norm  
> axis, xaxis=1,0,1,/norm  
> axis, yaxis=0,0,0,/norm  
> axis, yaxis=1,1.0,/norm  
>  
> -----
```

Once you execute a PLOT command the "data" coordinate system is established. So now you can issue an AXIS command and the command will know where to draw the plot. I seriously

doubt whether you want to be doing this in normalized coordinates, as you are here.

Your code will look more like the code in this article:

http://www.dfanning.com/tips/another_yaxis.html

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: Stackplot without axis?

Posted by [caitouer](#) on Mon, 10 Oct 2005 17:51:59 GMT

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Thanks, David. I checked your code. The two figures are plotted in the save plotting area. What I hope to do is to plot the lines one box after another box. Some thing like this:

www.engin.umich.edu/~xcai/test_stack.ps

Here, I plotted stackplot of $\sin(x)$, $\cos(x)$ and $\cos(x)$. The plotting area is different for each plot. I want to add xaxis fot the whole figure. By the way, can I add one vertical line for the whole figure? Right now, I add the vertical line in each box seperately. I really appreciate your help.

Caitouer

Subject: Re: Stackplot without axis?

Posted by [David Fanning](#) on Mon, 10 Oct 2005 18:12:18 GMT

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caitouer writes:

> Thanks, David. I checked your code. The two figures are
> plotted in the save plotting area. What I hope to do is to
> plot the lines one box after another box. Some thing like
> this:
> www.engin.umich.edu/~xcai/test_stack.ps

Humm. I don't see any axes in that plot. Just lines. Maybe what you are looking for is PLOTS, not AXIS.

> Here, I plotted stackplot of $\sin(x)$, $\cos(x)$ and $\cos(x)$. The
> plotting area is different for each plot. I want to add xaxis
> for the whole figure. By the way, can I add one vertical line
> for the whole figure? Right now, I add the vertical line in
> each box separately.

I'm just leaving my office (for about 5 weeks), so I probably
can't help much. If I wanted a single x-axis for three plots,
I would draw the first plot with `XSTYLE=8`, the second and
third plot with `XSTYLE=4`, and then put the final axis on
top with `AXIS, XAXIS=1` after I drew the 3rd plot.

The Y axis is more problematical, but I illustrate one way
to handle it in the article I had you read.

Vertical lines can be drawn anywhere and anytime with `PLOTS`.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Stackplot without axis?

Posted by [caitouer](#) on Mon, 10 Oct 2005 18:22:54 GMT

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Thanks, David. I will try to figure out. Have a nice trip!

Caitouer
