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, vaxis=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.

Fanning Software Consulting, Inc.

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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
- > 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'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