Subject: Re: multiple Y-axis for 2D plots Posted by Robert King on Tue, 08 Jun 1999 07:00:00 GMT

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noymer@mozart.ceped.ined.fr wrote in article <7jj5ai\$kin\$1@nnrp1.deja.com>... > Dear IDL newsgroup. > > I have data like this: a year vector (for the X-axis) and two > data vectors (for the Y values of two curves). Now, the two data > vectors are to be displayed on the same graph, but they have radically > different Y-scales. Rather than multiply the smaller by, say 100, I > would like to display them each on their own axis. By this, I mean > just like the lower left panel of figure 10-12 in the "Using IDL" > manual (p.200 in my version), except imagine the first curve being the > distribution of temperature (as drawn), and the RH Y-axis not being > Celsius, but being mmHg, and then imagine a second curve, giving the > distribution of atmospheric pressure for the same locale. The LH > Y-axis is for temp; the RH Y-axis is for pressure. > Some people feel that such graphs are unreadable because they don't > know without careful inspection of the caption which line goes with > the RH-Y-axis and which goes with the LH-Y-axis. They have a point; > the way out is to do two separate panels, closely stacked. But I > would like to know if this is at least doable. > > From the documentation for axis (etc), it was unclear (at least to me) > if this was possible, and all my experiments failed. > Thanks in advance if anyone has any thoughts. > Best.

>

Andrew.

Andrew,

Sorry to everyone if someone's already posted an answer to this one my newsfeed is somewhat slow and tempermental to say the least...:(

I've taken this from "IDL Programming Techniques" by DWF. (Page 31). I'm also guite new to IDL and found this book a wonderful aid to programming - I use it practically every half hour that I'm programming!! Well worth getting a copy, I'm sure that David will send you the details, otherwise visit his web site at http://www.dfanning.com/

"data set one" would be your temp Vs Time data "data set two" is the press Vs Time data.

Plot, data_set_one, YStyle=8, YTitle='Solid Line :Temp (deg C)' ,\$
 Position=[0.15,0.15,0.85,0.95]

Axis, YAxis=1, YRange=[0,200], /SAVE, YTitle=' Dashed Line : Pressure (mmHg)'

OPlot, data_set_two, LineStyle=2

Hope that this helps

Regards,

Robert