Subject: Re: /YNOZERO

Posted by Chris Lee on Sat, 19 Feb 2005 14:30:17 GMT

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In article <cv573u\$mmc\$1@news.nems.noaa.gov>, "Mr. No Address" <no_given_address@landofthelost.net> wrote:

- > I'm trying to create a plot with a fixed YRANGE for YAxis=0 and a self
- > scaling range incorporating /YNOZERO for YAxis=1. Here is the code:
- > PLOT, TIME, DATA.TEMP1, COLOR=0, /NODATA, YRANGE=[30,45], YSTYLE=8
- > OPLOT, TIME, DATA, TEMP1, COLOR=1
- > AXIS, YAxis=1, /YNOZERO, /Save
- > OPLOT, TIME, DATA.TEMP2, COLOR=2
- > The above code produces a YAxis=1 that is the same scale as YAxis=0. The
- > only way I'm able to get YAxis=1 to a scale different than YAxis=0 is to
- > explicitly set the range.
- > Gary

What do you want Yaxis=1 to scale to? it doesn't know about the data, it only knows what went into the environment variables, !y.crange and !y.range. If you want a different scale yaxis=0, you will have to give it a range.

what might do what you want is the following ;test data x=findgen(100)*10.*!DTOR a=sin(x)*10+100. b=a-20. position=[0.1,0.1,0.9,0.9] black=fsc_color('black',255) & white = fsc_color('white',0) & red=fsc_color('red', 100) plot, a, ystyle=8, yrange=[80,120], color=black, background=white,position=position plot, b, /ynozero, xstyle=5, ystyle=5, color=red,/noerase, position=position axis, 100., yax=1, color=red

,,,

I imagine there are better ways though.

Chris.

Subject: Re: /YNOZERO

Posted by Mr. No Address on Tue, 22 Feb 2005 16:40:01 GMT

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Christopher Lee wrote:

- > In article <cv573u\$mmc\$1@news.nems.noaa.gov>, "Mr. No Address"
- > <no_given_address@landofthelost.net> wrote:

I'd like YAxis=1 to self scale using DATA.TEMP2 in the following OPLOT line. I want the /YNOZERO option so that zero is not used for the min Y value. I did think about doing something similar to your code below. I'm using !P.MULTI = [0,2,2] though and each new instance of Plot creates a plot in the next panel. Of course, there is probably a way to prevent that... Maybe I'd have to use POSITION instead of !P.MULTI.

Gary

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> it doesn't know about the data, it
> only knows what went into the environment variables, !y.crange and
> !y.range. If you want a different scale yaxis=0, you will have to give it
> a range.
> what might do what you want is the following
> :test data
> x=findgen(100)*10.*!DTOR
> a=\sin(x)*10+100.
> b=a-20.
> position=[0.1,0.1,0.9,0.9]
> black=fsc color('black',255) & white = fsc color('white',0) & red=fsc color('red', 100)
> plot, a, ystyle=8, yrange=[80,120], color=black, background=white,position=position
> plot, b, /ynozero, xstyle=5, ystyle=5, color=red,/noerase, position=position
> axis, 100., yax=1, color=red
>
> ;;;;
> I imagine there are better ways though.
> Chris.
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