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Subject: Changing the labels orientation

Posted by [jujo](#) on Mon, 28 May 2007 18:53:13 GMT

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Hello,

I'm using plot command to plot some curves. I'm using XTICKNAME to define my labels' names in the axis x.

My question is... Can I plot these labels in a vertical orientation??  
I need to do that, because my label's names are too long.

Comments welcome,

Cheers!  
Hervé

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Subject: Re: Changing the labels orientation

Posted by [Robi](#) on Tue, 29 May 2007 08:11:03 GMT

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Hi there Hervé,

Here's how you could do it in an almost general fashion:

```
x = findgen(100)*1d19
y = sqrt(x)
charsize=2.0
; PLOT THE DATA, DON'T LABEL THE X AXIS AND RETURN THE XTICK VALUES...
plot, x, y, XTICKFORMAT='(A1)', XTICK_GET=xticks, YMARGIN=[9,2], $
    CHARSIZE=charsize
; CONVERT THE XTICK VALUES TO NORMALIZED POSITION...
xtickpos = !x.s[0] + !x.s[1]*xticks
; GET THE CHARACTER HEIGHT AND WIDTH IN NORMALIZED COORDINATES...
y_ch_size = charsize * float(!d.y_ch_size) / !d.y_vsize
x_ch_size = charsize * float(!d.x_ch_size) / !d.x_vsize
; PUT THE LABELS AT THE APPROPRIATE TICK POSITIONS...
xyouts, xtickpos+0.5*x_ch_size, !y.window[0]-0.5*y_ch_size, /NORM,
xticks, $
    ALIGN=1.0, ORIENTATION=90.0, CHARSIZE=charsize
```

It sounds like in your case you already have the value of xticks and rather than retrieving xticks via XTICKS\_GET, you'll probably be specifying the tick values immediately using XTICKS and XTICKV. You can change the ORIENTATION to 45 to save a little more room for the plot.

Hope this helps! Best -Tim.

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Subject: Re: Changing the labels orientation  
Posted by [jujo](#) on Tue, 29 May 2007 17:40:34 GMT  
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On 29 maio, 05:11, Tim <timrobis...@gmail.com> wrote:

```
> Hi there Hervé,  
>  
> Here's how you could do it in an almost general fashion:  
>  
> x = findgen(100)*1d19  
> y = sqrt(x)  
> charsize=2.0  
> ; PLOT THE DATA, DON'T LABEL THE X AXIS AND RETURN THE XTICK VALUES...  
> plot, x, y, XTICKFORMAT='(A1)', XTICK_GET=xticks, YMARGIN=[9,2], $  
>   CHARSIZE=charsize  
> ; CONVERT THE XTICK VALUES TO NORMALIZED POSITION...  
> xtickpos = !x.s[0] + !x.s[1]*xticks  
> ; GET THE CHARACTER HEIGHT AND WIDTH IN NORMALIZED COORDINATES...  
> y_ch_size = charsize * float(!d.y_ch_size) / !d.y_vsize  
> x_ch_size = charsize * float(!d.x_ch_size) / !d.x_vsize  
> ; PUT THE LABELS AT THE APPROPRIATE TICK POSITIONS...  
> xyouts, xtickpos+0.5*x_ch_size, !y.window[0]-0.5*y_ch_size, /NORM,  
> xticks, $  
>   ALIGN=1.0, ORIENTATION=90.0, CHARSIZE=charsize  
>  
> It sounds like in your case you already have the value of xticks and  
> rather than retrieving xticks via XTICKS_GET, you'll probably be  
> specifying the tick values immediately using XTICKS and XTICKV. You  
> can change the ORIENTATION to 45 to save a little more room for the  
> plot.  
>  
> Hope this helps! Best -Tim.
```

Thanks Tim, the code is fine!!  
Best!

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