
Subject: Re: COLORBAR

Posted by [phillipbitzer](#) on Fri, 09 Nov 2007 19:35:35 GMT

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On Nov 9, 11:59 am, David Fanning <n...@dfanning.com> wrote:

> phillipbit...@gmail.com writes:

>> For anyone who's used D Fanning's colorbar program-

>

>> When using colorbar pro, how can I get the values of the tickmarks (!

>> x.tickv doesn't work - return an array of 0's)?

>

>> Here's the underlying reason, when annotating the color bar, the

>> program (seems to one be able to) annotates the major tick marks. I

>> actually would like my tick labels not on the major tick marks, but

>> "in the middle" of the color. I think this would correspond to (only)

>> labelling the minor tick marks.

>

>> Maybe a visual would help me be more clear:

>

>> Instead of labelling:

>> here here here

>> |-----|-----|

>

>> I would like:

>> here here

>> |-----|-----|

>

>> I've been fooling around with the parameters, but to no avail. Anyone

>> else have this need/want before? Anyone have any ideas to accomplish

>> this?

>

> The COLORBAR program, for historical reasons, as well as for

> ease of programming, uses a PLOT command to do the annotation.

> So, what you want to do is not possible with that code.

>

> And because of recent changes, I can't even offer an undocumented

> keyword solution that will completely scrub the bar of annotations,

> so you could write your own axis labeling routine. :-(

>

> I'd recommend just writing your own colorbar routine. You can use

> PLOTS to draw your boxes on the colorbar image, and you can annotate it

> however you like with XYOUTS.

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

OK, so if anyone's interested, I've got a little workaround.
Basically, it's slightly mod-ing of colorbar so that it works (I'm doing a vertical bar, with /right set)- the keyword I was looking for is [xyz]tick_get:

```
PLOT,[minrange,maxrange], [minrange,maxrange], /NODATA,
XTICKS=1, $

    YTICKS=divisions, XSTYLE=1, YSTYLE=1, $

    POSITION=position, COLOR=color, CHARSIZE=charsize, /NOERASE,
$

    YTICKFORMAT='(A1)', XTICKFORMAT='(A1)', YTICKLEN=ticklen, $

    YRANGE=[minrange, maxrange], FONT=font, _EXTRA=extra,
YMINOR=minor, ytick_get=Y_tick_values

mid = FINDGEN(divisions)
FOR i=0, N_ELEMENTS(y_tick_values)-2 DO BEGIN
    mid[i] = (y_tick_values[i]+y_tick_values[i+1])/2
ENDFOR

    AXIS, YAXIS=1, YTICKV=mid, $
    YTICKFORMAT=format, YTICKS=divisions, $

    YTICKLEN=ticklen, YSTYLE=1, COLOR=color, CHARSIZE=charsize,
$

    FONT=font, YTITLE=title, _EXTRA=extra, YMINOR=minor,
YTICKNAME=ticknames
```
