
Subject: Re: Add a colorbar in a filled contour
Posted by duxiyu@gmail.com on Fri, 27 Jun 2008 03:44:57 GMT
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Thanks for your reply.
It is very helpful.

Cheers,
Du Jian

On Jun 25, 8:54 pm, "ben.bighair" <ben.bigh...@gmail.com> wrote:
> On Jun 25, 5:01 am, "dux...@gmail.com" <dux...@gmail.com> wrote:
>
>
>
>> Dear all,
>
>> I am using D Fanning's colorbar routine.
>> But I have some questions about the corresponding value for each
>> color.
>
>> For example,
>
>> A=DIS(31,41)
>> DEVICE, DECOMPOSED=0
>> LOADCT, 5, NCOLORS=100
>> CONTOUR, A, POSITION=[0.15, 0.15, 0.95, 0.75], \$
>> C_COLORS=INDGEN(100), NLEVELS=100, /FILL
>
>> For min(A)=0 and max(A)=25, the color with index '0' should present
>> the value '0' and the color with index '99' should present the value
>> '25'.
>> Therefore, when I use the COLORBAR routine, the keywords RANGE should
>> be given.
>> COLORBAR, NCOLORS=100, POSITION=[0.15, 0.85, 0.95, 0.90],
>> RANGE=[min(A), max(A)]
>> Is it right?
>
>> If the minimum or maximum of the array has a floating-point value like
>> 3.24, is the above command to add the colorbar still right?
>
> Hi,
>
> I think you'll be OK, although you should see David's article on
> specifying the contour levels manually (<http://dfanning.com/tips/nlevels.html>). Also, you will want to control the tick value format
> as Colorbar's default is to label the tick values as integers.

>
> I realize that you have posted a simple example, but I wonder about
> the purpose of a filled contour image with 100 levels. As a display
> technique will that be much different from simply using David's
> TVSCALE (or Liam Gumley's IMDISP) to show the array scaled into the
> color indices 0-100?
>
> Anyway, here is your example modified to scale the data 0-3.24 with a colorbar.
>
> Cheers,
> Ben
>
> A=DIST(31,41)
> minA = MIN(A, MAX = maxA)
> A = (A-minA)/(maxA-MinA) * 3.24 ;rescale to the range 0.0 - 3.24
> DEVICE, DECOMPOSED=0
> LOADCT, 5, NCOLORS=100
> CONTOUR, A, POSITION=[0.15, 0.15, 0.95, 0.75],\$
> C_COLORS = INDGEN(100), NLEVELS = 100, /FILLCOLORBAR, NCOLORS=100,
POSITION=[0.15, 0.85, 0.95, 0.90], \$
> RANGE=[min(A), max(A)], FORMAT = '(F0.2)'
