
Subject: Re: Issues with cgColorbar labels

Posted by [David Fanning](#) on Thu, 22 Sep 2011 16:17:39 GMT

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On Sep 22, 8:02 am, John Ilee 2 <johnism...@googlemail.com> wrote:

> I have been trying to find a simple way of producing a filled contour
> plot with a colour bar in IDL for some time. However, I always seem
> to run into issues when it comes to the labels on the colour bar.
>
> I have tried the following example from David Fanning's excellent
> website...
>
> data = cgDemoData(2)
> LoadCT, 0
> LoadCT, 33, NColors=10, Bottom=1
> c_colors = Indgen(10)+1
> position = [0.1, 0.1, 0.9, 0.75]
> cgContour, data, NLevels=10, /Fill, Position=position,
> C_Colors=c_colors
> cgColorbar, Divisions=10, Range=[Min(data), Max(data)], XMinor=1, \$
> XTickLen=1.0, Position=[0.1, 0.90, 0.9, 0.94], NColors=10,
> BOTTOM=1
>
> ...which works perfectly.
>
> However, when I try to use the above commands with my own dataset (eg
> 'data = myarray', which is a 1024x512 array, min value 0.51, max value
> 1.27), the colour bar labels just display "1" at every tickmark.
>
> If anyone can point me in the direction of a solution, it would be
> most appreciated. I know it must be something simple, but I just
> can't seem to figure it out.
>
> (I am running IDL 7.1)
>
> Many thanks.

Try the FORMAT keyword on the cgColorbar. Something like
FORMAT='(F0.2)'
should work.

Cheers,

David

Subject: Re: Issues with cgColorbar labels
Posted by [Brian Wolven](#) on Thu, 22 Sep 2011 16:35:19 GMT
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Surely it would be easier just to multiply the data by 100? =P

Subject: Re: Issues with cgColorbar labels
Posted by [Bob\[4\]](#) on Thu, 22 Sep 2011 21:12:27 GMT
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Try applying this diff to cgcolorbar.pro, then it will probably work the way you expect.

```
diff a/cgcolorbar.pro b/cgcolorbar.pro
84c84
< ;          be (divisions + 1) annotations. The default is 6.
---
> ;          be (divisions + 1) annotations. The default is chosen internally.
94c94
< ;   FORMAT:    The format of the bar annotations. Default is '(I0)'.
---
> ;   FORMAT:    The format of the bar annotations. Default is ".
368c368
<   IF N_ELEMENTS(format) EQ 0 THEN format = '(I0)'
---
>   IF N_ELEMENTS(format) EQ 0 THEN format = "
378c378
<   IF N_ELEMENTS(divisions) EQ 0 THEN divisions = 6
---
>   IF N_ELEMENTS(divisions) EQ 0 THEN divisions = 0
```

Subject: Re: Issues with cgColorbar labels
Posted by [John Ilee 2](#) on Fri, 23 Sep 2011 10:26:48 GMT
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On Sep 22, 5:17 pm, David Fanning <sageande...@gmail.com> wrote:
> On Sep 22, 8:02 am, John Ilee 2 <johnism...@googlemail.com> wrote:
>
>
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>
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>
>
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>> cgContour, data, NLevels=10, /Fill, Position=position,
>> C_Colors=c_colors
>> cgColorbar, Divisions=10, Range=[Min(data), Max(data)], XMinor=1, $
>>      XTickLen=1.0, Position=[0.1, 0.90, 0.9, 0.94], NColors=10,
>> BOTTOM=1
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>
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> FORMAT='(F0.2)'
> should work.
>
> Cheers,
>
> David
```

That fixed it.

Thanks for all the suggestions.
