
Subject: Re: Problems with colorbar matching contour colors
Posted by [David Fanning](#) on Mon, 12 Aug 2013 01:10:01 GMT
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Morgan Silverman writes:

- > I've created a new colortable. When I load the colortable to only
- > use 26 colors to match the 25 contour levels I've plotted,
- > the colorbar displays the colors squished at the bottom and
- > then a gray scale colorbar for the remaining space. I'm not
- > sure why this is happening.

Well, you don't indicate to the color bar that you are using a restricted number of colors. That is the purpose of the NCOLORS keyword. In the absence of information, it uses all 256 colors.

- > I only want my color bar to go
- > from 0-25 even though my max value is well above 100. I
- > want the values higher than 25 to be the same color as
- > the 25th. An abbreviated code is below. I'd appreciate
- > any help with why the colorbar isn't filling with the
- > abbreviated number of colors or a better way to do this.

I think you want something like this:

```
loadct, 0
loadct, 41, ncolors=26
data = dist(50)
contourLevels = [Indgen(26), Max(data)]
cgDisplay, 800, 700
cgcontour, data, Levels=contourLevels, /fill, $
    position=[0.125,0.125,0.8,0.85], $
    c_colors=indgen(26), /label, /outline
cgcolorbar, ncolors=25, range=[0,25], oob_high=25B, ticklen=1.0, $
    divisions=25, position=[0.125, 0.9, 0.9, 0.93],/vertical,/right
END
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
