
Subject: Contour Plot with Handful of Colors

Posted by [David Fanning](#) on Thu, 08 Sep 2011 02:45:42 GMT

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Folks,

I am trying to reproduce a filled contour plot with a colorbar with a handful (9, in this case) of colors. Does anyone know how to produce a function graphics color bar with less than 256 colors? Also, I can't get my function graphics filled contour to use the colors I am trying to assign to it. :-)

Any ideas?

```
.*****  
,  
PRO ContourPlots, LABEL=label  
  
; Create a simple, random dataset for contouring:  
data = RANDOMU(-3L, 9, 9)  
  
levels =[0.05, 0.1, 0.15, 0.2, 0.3, 0.44, 0.6, 0.75]  
  
; cgContour  
cgWindow, WXSIZ=500, WYSIZ=400  
cgLoadCT, 33, NColors=8, Bottom=1  
cgCONTOUR, data, LEVELS=levels, LABEL=Keyword_Set(label), $  
  /FILL, C_Colors=Indgen(8)+1, Position=[0.1, 0.1, 0.9, 0.8], /WINDOW  
cgCONTOUR, data, LEVELS=levels, LABEL=2, /OVERPLOT, $  
  COLOR='charcoal', /AddCmd  
cgColorbar, NColors=8, Bottom=1, /FIT, RANGE=[0,1], $  
  DIVISIONS=4, /AddCmd  
  
; Contour function.  
w = Window(DIMENSIONS=[500, 400])  
cgLoadCT, 33, NColors=8, Bottom=1, RGB_TABLE=rgb, /ROW  
ctr=contour(data, C_VALUE=levels, AXIS_STYLE=2, /CURRENT, $  
  RGB_TABLE=rgb, /FILL, Position=[0.1, 0.1, 0.9, 0.8], $  
  RGB_INDICES=Indgen(8)+1)  
cb = Colorbar(TARGET=ctr, Position=[0.1, 0.85, 0.9, 0.9])  
IF Keyword_Set(label) THEN ctr.C_LABEL_SHOW=Replicate(1,8)  
  
END  
.***** ***  
,
```

Thanks,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
