
Subject: Re: Teaching an Elephant to Dance
Posted by [Mark Piper](#) on Mon, 12 Sep 2011 17:25:43 GMT
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On 9/12/2011 11:12 AM, David Fanning wrote:

```
> David Fanning writes:
>
>> I'll see what I can learn from that example if I remove
>> the TICKNAME keyword. :-)
>
> Ah, Mark, all I did to your code was comment out the
> TICKNAME keyword and run the program. This is the
> output I got:
>
> http://www.idlcoyote.com/misc/mark_piper_contour.png
>
> I'm pretty sure that's not what you must be seeing!
> I'm running IDL 8.1 on a Windows 7, 64-bit OS:
>
> IDL> print, !version
> { x86_64 Win32 Windows Microsoft Windows 8.1 Mar  9 2011 64 64}
>
> Any ideas?
>
> Cheers,
>
> David
>
```

Ack! Yes, I made a mistake. Sorry about that. Lesson: I shouldn't post to the newsgroup while distracted. Counting the colors with `N_ELEMENTS` was the problem. Here's a revised version.

mp

```
pro ng_discrete_colorbar1
  compile_opt idl2

  data = randomu(-3L, 9, 9)
  levels = [0.0, 0.25, 0.5, 0.75, 1.0] ; note top level

  ; COLORBAR wants 256 colors, so replicate the 4 desired colors.
  colors = [[!color.red], !color.blue], !color.green], !color.yellow]]
  step_ct = congrid(colors, 3, 256)

  w = window(dimensions=[750, 400])
  w.refresh, /disable
```

```
c = contour(data, $
  /current, $
  c_value=levels, $
  /fill, $
  position=[0.1, 0.1, 0.9, 0.8], $
  rgb_table=step_ct, $
  rgb_indices=bytsc1(indgen(4))) ; this is a bug in 8.1

over = contour(data, $
  /current, $
  c_value=levels, $
  axis_style=0, $
  font_size=10, $
  /c_label_show, $
  /c_use_label_orientation, $
  c_label_interval=0.6, $ ; thin the number of labels
  position=[0.1, 0.1, 0.9, 0.8])

cb = colorbar(target=c, $
  tickname=string(levels, format='(f4.2)'), $ ; use the levels
  position=[0.1, 0.90, 0.9, 0.95])

w.refresh
end
```
