
Subject: Re: Barplot using Coyote, the colors keep changing, why?

Posted by [David Fanning](#) on Thu, 28 Nov 2013 15:06:49 GMT

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Galaxytraveler writes:

>
> I have been trying create barplots. I use Coyotes cgBarplot and cgDisplay following the examples found here:
> http://www.idlcoyote.com/cg_tips/barplot.php
>
> And it is working well, however the x-axis color and the barnames keep changing color every time I run the program (even without a new compile) as if it randomly chose which of the graphs now change colors. I can't figure out why. Most often they are white, which means that they invisible, and I can just see them as a white line for the tick.
>
> I have put in AXISCOLOR='black', and it makes the axis turn black just not the x-axis and barname. Do anyone know of a way for forcing the program to use my chosen color? Or know of a smarter way of making barplots?
> (I am using a mac, if that could have any effect on the problem)
>
> A second question is that I would like to save the image afterwards, and have tried to use output='file.png' or ps or jpeg, but I just get the error everytime:
> "CGBARPLOT --> Tag name TT_FONT_OLD is undefined for structure FSC_PS_SETUP.
> Any solutions to why this is or of a different way of doing it?
>
>
> My programming looks like this:
>
> cgDisplay, 1300, 900, WID=0
>
> barnames = ['0.05', '0.15', '0.25', '0.35', '0.45', '0.55', '0.65', '0.75', '0.85', '0.95']
>
> !P.Multi = [0,2,2]
>
> cgBarplot, C, YRange=[0,30],COLORs='red',AXISCOLOR='black', charsize=3.,
BARNAMES=barnames, BACKGROUND='White',output='file.png'
>
> cgBarPlot, D, YRange=[0,30], Colors='dark green',AXISCOLOR='black', charsize=3.,
BARNAMES=barnames
>
> cgBarPlot, X, YRange=[0,30], Colors='gold',AXISCOLOR='black', charsize=3.,
BARNAMES=barnames
>
> cgBarPlot, E, YRange=[0,30], Colors='blue',AXISCOLOR='black', charsize=3.,
BARNAMES=barnames
>
>

> !P.Multi = 0

Well, you are doing it "All wrong!", as they say. :-)

First of all, follow the directions here to update your Coyote Library and make sure you have ONE Coyote Library on your path. You have old programs that are causing you grief.

http://www.idlcoyote.com/code_tips/fixcoyoteprogram.php

Then, forget the AXISCOLOR, BACKGROUND, and OUTPUT keywords. You dont need them. I don't think you will even need the CHARSIZE keywords, since Coyote Graphics routines compensate for PostScript output.

Here is how I would write the program.

```
;-----  
PRO Example, PS=ps  
  seed = -5L  
  c = RandomU(seed, 10) * 10.0  
  d = RandomU(seed, 10) * 7.5  
  x = RandomU(seed, 10) * 7.5  
  e = RandomU(seed, 10) * 10.0  
  
; Need PostScript output?  
IF Keyword_Set(ps) THEN cgPS_Open, 'file.ps'  
  
; Select a character size.  
charsize = !P.Charsize  
!P.Charsize = (!D.Name EQ 'PS') ? 0.75 : cgDefCharsize()  
  
cgDisplay, 1300, 900, WID=0  
names = ['0.05', '0.15', '0.25', '0.35', '0.45', $  
  '0.55', '0.65', '0.75', '0.85', '0.95']  
!P.Multi = [0,2,2]  
cgBarplot, C, YRange=[0,30],COLORs='red',BARNAMES=names  
cgBarPlot, D, YRange=[0,30], Colors='dark green',BARNAMES=names  
cgBarPlot, X, YRange=[0,30], Colors='gold', BARNAMES=names  
cgBarPlot, E, YRange=[0,30], Colors='blue', BARNAMES=names  
IF Keyword_Set(ps) THEN cgPS_Close, /PNG  
  
; Clean up.  
!P.Multi = 0  
!P.Charsize = charsize  
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.")
