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Subject: Re: Colors in PLOT with IDL  
Posted by [Andreas Ernst](#) on Tue, 25 May 2004 09:44:02 GMT  
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Ah, the color must also appear if I set

```
set_plot, "ps"  
device, filename="myfile.ps"
```

How do I do that?

Thanks in advance. Andreas

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Subject: Re: Colors in PLOT with IDL  
Posted by [Andreas Ernst](#) on Tue, 25 May 2004 10:53:38 GMT  
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Ok, I found it out finally! I now use a routine GetColor,  
which I found on the internet and which works fine...

Cheers, Andreas

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Subject: Re: Colors in PLOT with IDL  
Posted by [David Fanning](#) on Tue, 25 May 2004 11:11:37 GMT  
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Andreas Ernst writes:

- > what is the argument for PLOT and OPLOT to plot
- > a colored graph in IDL? The argument linestyle is
- > not sufficient, my plot looks still very ugly with
- > different line styles.

Color is a pretty complicated subject. You have to worry about whether your device is 8-bit or 24-bit, whether color decomposition is turned on or off, how many colors can physically be loaded in the color table, etc., etc. It can drive you crazy if you let it.

That's why I use a color program, FSC\_COLOR, that makes a lot of these decisions for me and lets me create a plot in a device independent way. The following short program will look identical on your display screen, sent to a PostScript file,

run in the Z-graphics buffer, etc.

You can find FSC\_COLOR here:

[http://www.dfanning.com/programs/fsc\\_color.pro](http://www.dfanning.com/programs/fsc_color.pro)

And, of course, you can find a LOT of information about color, generally, on my web page. :-)

PRO DrawingColorTest

```
; Create drawing colors.
axisColor = FSC_Color('navy', !D.Table_Size-2)
background = FSC_Color('ivory', !D.Table_Size-3)
dataColor = FSC_Color('indian red', !D.Table_Size-4)
fillColor = FSC_Color('dodger blue', !D.Table_Size-5)
outlineColor = FSC_Color('dark green', !D.Table_Size-6)

; Create data for a plot. Fill the region from x=20 to x=45.
x = Findgen(101)
y = 4 * Sin(x * !DtoR) / Exp( (x-15) / 25.)
lowVal = 20
highVal = 45

; Draw the plot.
lowY = 4 * Sin(lowVal * !DtoR) / Exp( (lowVal-15) / 25.)
highY = 4 * Sin(highVal * !DtoR) / Exp( (highVal-15) / 25.)
indices = Value_Locate(x, [lowVal, highVal])
low = indices[0]
high = indices[1]

IF x(low) LT lowVal THEN low = low + 1
IF x(high) GT highVal THEN high = high - 1

xpoly = [lowVal, lowVal, x[low:high], highVal, highVal]
ypoly = [!Y.CRange[0], lowY, y[low:high], highY, !Y.CRange[0]]
PolyFill, [0,0,1,1,0], [0,1,1,0,0], Color=background, /Normal
PolyFill, xpoly, ypoly, Color=fillColor
PlotS, xpoly, ypoly, Color=outlineColor, Thick=2
Plot, x, y, Color=axisColor, /NoData, /NoErase
OPlot, x, y, Color=dataColor, Thick=3

END
```

To run this program at the IDL command line:

```
IDL> Window
IDL> DrawingColorTest
```

To run this program in the PostScript device:

```
IDL> thisDevice = !D.Name
IDL> Set_Plot, 'PS'
IDL> Device, Color=1, Bits=8
IDL> DrawingColorTest
IDL> Device, /Close
IDL> Set_Plot, thisDevice
```

Cheers,

David

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David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Colors in PLOT with IDL  
Posted by [David Fanning](#) on Tue, 25 May 2004 11:15:20 GMT  
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Andreas Ernst writes:

> Ok, I found it out finally! I now use a routine GetColor,  
> which I found on the internet and which works fine...

Oh, that is an OLD one! Get FSC\_COLOR instead and you  
will be \*much\* happier. :-)

Cheers,

David

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David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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