
Subject: Re: PlotS, Color

Posted by [Phillip M. Bitzer](#) on Sat, 06 Oct 2012 17:28:46 GMT

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Seems to me this article will be quite helpful:

http://www.idlcoyote.com/graphics_tips/coloredline.html

Subject: Re: PlotS, Color

Posted by [robinson.inj](#) on Sun, 07 Oct 2012 00:08:03 GMT

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On Saturday, October 6, 2012 10:07:56 AM UTC-4, (unknown) wrote:

> Hi all,

>

> I would like some help. I have this data

>

> 3 50 5

>

> 4 60 10

>

> 5 70 15

>

> 8 80 20

>

> 4 90 20

>

> 3 100 15

>

> 1 110 10

>

> The 2nd and 3rd cols are lon and lat. I need to plot a line connecting the values with especific colors. For instance from 3 to 4 in yellow, from 4 to 8 (and 8 to 4) in red, from 4 to 3 in yellow, and 3 to 1 in blue.

>

> Suggestions?

>

> Rob

Hi All, after Phillip's suggestion, I am doing this (I am using David Fanning's IDL libraries, and IDL 6.3):

```
colors=['blue', 'green', 'yellow', 'gold', 'orange', 'brown', 'red', 'black']
```

```
levels = [0, 5, 8, 10, 15, 23, 30] ; color levels
```

```
s = Size(vals, /Dimensions)
```

```
TVLCT, cgColor(colors, /Triple), 1
```

```
scaleddata = BytArr(s[0])
```

```

FOR c=1,6 DO BEGIN
  index = Where(vals GE levels[c-1] AND itcws LT levels[c], count)
  IF count GT 0 THEN scaleddata[index] = Byte(c)
ENDFOR
index = Where(vals GT 30, count)
IF count GT 0 THEN scaledImage[index] = 7B
missing = Where(vals LT 0, missing_count)
IF missing_count GT 0 THEN scaleddata[missing] = 8B

FOR c=0,s-2 DO cgPlotS, [lons[c], lons[c+1]], [lats[c], lats[c+1]],color=StrTrim(scaleddata[c],2),
Thick=2
FOR c=0,s-1 DO cgPlotS, lons[c], lats[c], PSym=2, Color=StrTrim(scaleddata[c],2)

```

vals, lons and lats have 300 element each.

However, about the second last FOR I am getting the following: Expression must be a scalar in this context: <LONG Array[1]>.

Can someone help me and tell me what I am doing wrong?

Regards,
Rob.

Subject: Re: PlotS, Color
 Posted by [David Fanning](#) on Sun, 07 Oct 2012 01:09:14 GMT
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robinson.inj@gmail.com writes:

> Can someone help me and tell me what I am doing wrong?

I'm going to guess that s is a two-element array. I suspect vals is a 1x300 array.

Cheers,

David

--

David Fanning, Ph.D.
 Fanning Software Consulting, Inc.
 Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
 Sepore ma de ni thue. ("Perhaps thos speakest truth.")