
Subject: Using color table to map symbol colors in plot
Posted by [laura.hike](#) on Fri, 19 May 2017 01:26:47 GMT
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Hi,

I can't find a similar question from earlier, but feel free to point me to one instead of answering.

I am making a map and would like to overplot values at given locations. The values are at random positions, so I want to plot them as dots, not using a contour plot. (Maybe if I get desperate I'll try that.) I start with

```
m = map("geographic", limit = [-25, 139.8, -9.9, 155])  
m1 = mapcontinents(/ hires)
```

I have three sets of data, lats, lons, and some values in an array we'll call "values". I want to plot points at the locations of the lat, lon pairs with the colors based on values. So after using a loadct, I scale the values to 0-255 in "ivalues". What I want to do next is something like

```
p = plot(lons, lats, color = ivalues, linestyle = 'none', symbol = 'o', sym_filled = 1, /overplot)
```

but I get "PLOT: Invalid internal color." when I do. I can plot the data using one color value at a time, i.e.,

```
p1 = plot(lons[where(c eq 225)], lats[where(c eq 225)], color = 'yellow', linestyle = 'none', symbol =  
'o', sym_filled = 1, /overplot)
```

but, even in that style, not with a numerical value corresponding to the color table, i.e., color = 255. Is there any way to do what I'm looking for? From what I can tell, all of the color properties used with "plot" (like "symbol_color" or just "color") only take the named palette of colors as shown on

<https://www.harrisgeospatial.com/docs/formattingsymsandlines.html>

Thanks for any assistance,

Laura

Subject: Re: Using color table to map symbol colors in plot
Posted by [siumtesfai](#) on Fri, 19 May 2017 01:34:11 GMT
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On Thursday, May 18, 2017 at 9:26:49 PM UTC-4, laura...@gmail.com wrote:

> Hi,

>

> I can't find a similar question from earlier, but feel free to point me to one instead of answering.

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> https://www.harrisgeospatial.com/docs/formattingsymsandlines.html
>
> Thanks for any assistance,
>
> Laura
```

I often plot using
CGPLOTS,lons,lats,PSYM=SYMCAT(16),symsize=0.5,thick=1

Subject: Re: Using color table to map symbol colors in plot
Posted by [Markus Schmassmann](#) on Fri, 19 May 2017 09:59:48 GMT
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On 05/19/2017 03:26 AM, laura.hike@gmail.com wrote:

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> I'll try that.) I start with
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> palette of colors as shown on
>
> https://www.harrisgeospatial.com/docs/formattingsymsandlines .html
try one of these:

```

```
s=scatterplot(lon,lat,symbol='o',sym_filled=1,/overplot,magn itude=ivalues,rgb_table=yourCT)
```

```
p=plot(lon,lat,linestyle = 'none', symbol='o', sym_filled = 1,$
/overplot,vert_colors=yourCT[* ,ivalues])
```

where yourCT is the color table in format byte(3,255)

code not tested, I hope this does what you are looking for, Markus

Subject: Re: Using color table to map symbol colors in plot
 Posted by [laura.hike](#) on Mon, 22 May 2017 22:12:45 GMT
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On Friday, May 19, 2017 at 2:59:51 AM UTC-7, Markus Schmassmann wrote:

> On 05/19/2017 03:26 AM, LMH wrote:

>

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>> I am making a map and would like to overplot values at given
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>> https://www.harrisgeospatial.com/docs/formattingsymsandlines.html
> try one of these:
>
> s=scatterplot(lon,lat,symbol='o',sym_filled=1,/overplot,magn itude=ivalues,rgb_table=yourCT)
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> p=plot(lon,lat,linestyle = 'none', symbol='o', sym_filled = 1,$
> /overplot,vert_colors=yourCT[*;ivalues])
>
> where yourCT is the color table in format byte(3,255)
>
> code not tested, I hope this does what you are looking for, Markus

```

Thanks, the "scatterplot" version worked great. (I didn't try the other.)