
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:

```
> 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
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
