Subject: Re: Shading plotting symbols
Posted by Jack Frost on Sun, 08 Jan 2012 19:21:47 GMT
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On Jan 8, 4:24 pm, Russell <rryan....@gmail.com> wrote:
> This is pretty straight-forward, and David's cg* library will do the
> trick. But just in case, you prefer to roll your own (even when
> stable alternatives exist), here's what I would do:
>
> lo=[1,2,3,4,5] ;the lower-bounds of your color segments
> hi=[2,3,4,5,6] ;the upper-bounds of your color segments
> psym=2
>
> ;the colors
> colors=findgen(n_elements(lo))/(n_elements(lo)-1)*200+55
>
> xr=[0,360] ;lon range
> yr=[-90,90] ;lat range
> plot,[0],[0],/nodata,xr=xr,yr=yr,xst=5,yst=5 ;just define the conv
> between data/device/normal coord
>
> loadct,13,/silent ;load the color table of your choice, 13 is a
> rainbow...
> for i=0,n_elements(lo)-1 do begin ;for every color segment do
> something:
>   ; find the good data to plot, you should change this logic as
> necessary
>   g=where(val gt lo(i) and val le hi(i),n)
>   if n gt 0 then oplot,lon(g),lat(g),color=color(i),psym=psym
> endfor
> loadct,0,/silent ;switch back to B&W
>
> plot,[0],[0],/nodata,xr=xr,yr=yr,xst=1,yst=1 ;overplot the axes
>
> On Jan 8, 9:56 am, Jack Frost <jf22...@gmail.com> wrote:
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>
>> Hi all.
>
>> I was wondering if it was possible to shade plotting symbols different
>> colors? For example, say I have a latitude-longitude plot of the
>> Earth, with x symbols showing the locations where some measurements
>> were taken. Is it possible to shade these symbols to show the value of

>> the measurement, i.e measurements with values between 1-2 are blue,
>> 2-3 are green, 3-4 are red etc?
>
>> At the moment I am just creating a plot of measurement locations from
>> the 1d lat/lon arrays as such:
>
>> plot, lon, lat, psym=1, $
>>   xrange=[0,360], yrange=[-90,90], $
>>   xtitle='Longitude', ytitle='Latitude', $
>>   xticks=4, xtickname=['0','90','180','270','360'], $
>>   yticks=6, ytickname=['-90','-60','-30','EQ','30','60','90'], $
>>   title='Locations of retrievals'
>> filename='ice_locations.png'
>> write_png,filename,tvrd()
>
>> Many thanks,
>
>> Jack

Brilliant, thanks guys!

I'm using Russell's method at the moment, as I'm on my home computer
which has GDL and I keep getting errors when trying to find GDLs color
tables with cgloadct. However, when I'm back at uni tomorrow I'll give
David's method a whirl.

The more I use IDL, the more I realize I know nothing about IDL! :)