Subject: Re: Having trouble with code for data to image.
Posted by pgrigis on Wed, 26 Nov 2008 20:40:13 GMT

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mbwel...@gmail.com wrote:

>> wrote:
>>
>>
>>
>>> mbwel...@gmail.com wrote:
>>>> Hello,
>>
>>>> I am running the code:
>>
>>>> image = fltarr(nx,ny)
>>>> deltax = (xrange[1]-xrange[0])/float(nx)
>>>> deltay = (yrange[1]-yrange[0])/float(ny)
>>>> for i=0l,ndata-1 do $

>>>> magnitude
>>>> [i]
>>

>>>> xrange= [-180,0]
>>>> yrange = [-90,90]

>>>> eg left -180

>>
>>>> and i get the error when I run the code:
>>
>>>> % Subscript range values of the form low:high must be >= 0, < size,
>>>> with low <= high: IMAGE
>>
>>>> I assume the problem is in the way that my data is ordered, and I have
>>>> tried switching lows and highs around, but to no avail. I would
>>>> imagine this is pretty simple to solve, but it is not clear to me
>>>> right now.
>>
>>>> Any insight?
>>
>>>> Thanks,

>>
>>>> ~Matt
>>
>>> Hi,
>>> with the data you provide, you are out of bounds...
>>> (bottom[i]-yrange[0])/deltay:(top[i]-yrange[0])/deltay] ==> 179:180
>>> ... 180 is out of bound. Remember that indexing is from 0 to n-1. You
>>> might want to throw a -1 in your indexes...
>>> As Chris has suggested it, print your indexes and be sure they are correct!
>>
>>> Jean
>>
>> That looks distinctly like code I suggested. ;-)
>>
>> Yes, Jean is exactly right - there should be -1 in both the "top" and
>> "right" part of the indexing, i.e. replace the current line with:
>>

>> magnitude[i]
>>
>> Sorry about that!
>>
>> -Jeremy.
>
>
> That fixed the problem! Thank you all for your help; However, as these
> things often go, I have a new problem.
>
> In trying to run:
>
> erase
> loadct, 10   ; or whatever you want - the Brewer tables would probably
> be useful
> location = [0.1,0.1,0.9,0.9]
> tvimage, bytscl(image,top=250)+4, position=location
> plot, /noerase, /nodata, [0],[0], position=location, xrange=xrange,
> yrange=yrange
>
> I get an error that I don't quite understand (probably my relative
> inexperience) with:
>
> tvimage, bytscl(image,top=250)+4, position=location
>
> Erase, Color=FSC_Color(background, BREWER=brewer)
>   ^
> % Syntax error.
>   At: G:\Mars_tectonics\IDL_programs\tvimage.pro, Line 662

```
>
>        IF Size(acolor, /TNAME) EQ 'STRING' THEN acolor = FSC_COLOR
> (acolor, BREWER=brewer)
```

Is that in one or two lines in your file? If on two, remove
the line break.

Paolo

```
>
> ^
> % Syntax error.
>    At: G:\Mars_tectonics\IDL_programs\tvimage.pro, Line 995
> % Compiled module: TVIMAGE.
> % Attempt to call undefined procedure/function: 'TVIMAGE'.
> % Execution halted at: $MAIN$
>
>
>
> Is this a problem within TVImage, or something I failed to do
> correctly?
>
> And Jeremy the code should look familiar ;)
>  Thanks again for you help
>
> ~Matt
```