
Subject: Re: about color table

Posted by [David Fanning](#) on Thu, 18 Jun 2009 22:01:15 GMT

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Hu writes:

> I want to do something like this: I got an 2-D array with values range
> from 0.0 to 1.0. and I want to display the array using different
> colors. for example, if the value is greater than 0.8, the elements
> will be displayed as red, if the values is between 0.5 and 0.8, the
> color will be blue, and the relationship can be listed as follows:
>
>> 0.8 red
> 0.5-0.8 blue
> 0.3-0.5 yellow
> 0.2-0.3 green
> <0.2 white
>
> I know I need to set up a color table, and the book 'IDL Programming
> techniques' demonstrate how to set up a color table, and I set up the
> table including those above colors.
>
> The question is , How can I set up the relationship between the color
> table and the different ranges? I mean how to 'tell' the computer
> display the array using this relationship?

```
TVLCT, FSC_Color(['white','green','yellow','blue','red'], /TRIPLE), 1
s = Size(array, /DIMENSIONS)
scaledData = BytArr(s[0], s[1])
I = Where(array LT 0.2, count)
IF count GT 0 THEN scaledData[I] = 1
I = Where(array GE 0.2 AND array LT 0.3, count)
IF count GT 0 THEN scaledData[I] = 2
I = Where(array GE 0.3 AND array LT 0.5, count)
IF count GT 0 THEN scaledData[I] = 3
I = Where(array GE 0.5 AND array LT 0.8, count)
IF count GT 0 THEN scaledData[I] = 4
I = Where(array GT 0.8, count)
IF count GT 0 THEN scaledData[I] = 5
TVImage, scaledData, /KEEP, /NOINTERP
```

Cheers,

David

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David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
