

Subject: Re: colorbar to display the 0 in the middle
Posted by [David Fanning](#) on Fri, 10 Feb 2006 11:12:03 GMT
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Vigeesh Nambiar writes:

```
> But, I want something like this  
> minval = -30  
> maxval = +50  
>  
> i.e my colorbar should look something like this  
>  
|----- 50  
|  
|  
|  
|  
|  
|  
|  
|  
|- 0  
|  
|  
|  
|  
|  
|----- -30  
>  
>  
> :-)  
>  
> Basically, what I want is that the color for the data value 0 should be  
> the same for all the output images. That is, if I use a Blue-Red color  
> table, then the 0 data value should always be green. The main problem  
> is because the minimum and maximum value keeps on changing for  
> different arrays. If for the first array the min value is -30 and max  
> is 50, for the second array it might be -50 and +75, and so on.
```

Are you SURE that is what you want? Differential scaling on the positive and negative sides of your data, and differential scaling on all data sets!? Wouldn't you want to *compare* the data at some point?

I don't know. It's your data analysis. But this is simply a mapping problem. Scale negative values into 100 values. Scale positive values into 100 values. Use a color table that has 200 values. Label it with YTICKV (since the scale is no longer linear). Just don't include my name in the acknowledgements, please. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
