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Subject: Re: Color changing dialog  
Posted by [David Foster](#) on Fri, 28 May 1999 07:00:00 GMT  
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Tri VU KHAC wrote:

>  
> Hi all,  
>  
> I write a little application which needs a color table in which two (or  
> more) IDL's color tables are as the following description:  
>  
> Saying my color table has 256 color  
> myCT[0 : n-1] = CompressCT(IDLCT1, n) ; linear  
> compression of IDL's N-element color table into n-element color table (n  
> <= 255)  
> myCT[n : 255] = CompressCT(IDLCT2, 256-n) ; linear compression of  
> IDL's N-element color table into (256-n)-element color table  
>  
> Does anyone implement this procedure or know where I can get it. If you  
> have sth like XLoadCT of IDL, this' excellent !  
> Thanks for help.  
> Tri.

Tri -

Are you asking for something like the CompressCT() routine? You could just use the INTERPOLATE() function to do this.

It looks like you are creating a split color-table, so you might want to check out my GRAYSCALE.PRO routine that can do this. At present it will make half the scale a linear gray-scale, like you are using, and the other half will be a single-color scale (eg. gradations of yellow or some other color). You could easily modify this to make both halves gray-scales. This routine can also split the color table into thirds. It is a modal widget, and allows you to adjust both halves interactively (and simultaneously, this could be expanded to allow independent adjustments) using sliders.

You can get this from:

<ftp://bial8.ucsd.edu/pub/software/idl/share>

Dave Foster

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Posted by [davidf](#) on Fri, 28 May 1999 07:00:00 GMT  
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Whoops! I wrote:

```
> Window, Title='Image One Window'  
> LoadCT, 1, NColors=100, Bottom=100  
> TVScale, image1, Top=199, Bottom=100  
> XColors, Title='Image One Colors', NColors=100, Bottom=100  
>  
> Window, Title='Image Two Window'  
> LoadCT, 3, NColors=100  
> TVScale, image2, Top=99  
> XColors, Title='Image Two Colors', NColors=100
```

Forgot that /FREE keyword on those Window commands! :-)

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Tri VU KHAC ([tvk@info.fundp.ac.be](mailto:tvk@info.fundp.ac.be)) writes:

```
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> more) IDL's color tables are as the following description:  
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> Saying my color table has 256 color  
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```

```
> <= 255)
> myCT[n : 255] = CompressCT(IDLCT2, 256-n) ; linear compression of
> IDL's N-element color table into (256-n)-element color table
>
> Does anyone implement this procedure or know where I can get it. If you
> have sth like XLoadCT of IDL, this' excellent !
```

You can download my XCOLORS program, an XLOADCT knock-off:

<http://www.dfanning.com/programs/xcolors.pro>

This program has several advantages that XLOADCT lacks.

One of the most important to me is that you can have multiple programs on the display at the same time.

(No COMMON blocks. :-) This makes it possible for me to have a color changing tool associated with individual windows:

```
Window, Title='Image One Window'
LoadCT, 1, NColors=100, Bottom=100
TVScale, image1, Top=199, Bottom=100
XColors, Title='Image One Colors', NColors=100, Bottom=100
```

```
Window, Title='Image Two Window'
LoadCT, 3, NColors=100
TVScale, image2, Top=99
XColors, Title='Image Two Colors', NColors=100
```

The most important XCOLORS advantage is that it can notify a widget program (via a widget event) when the color tables change. This makes it possible to write programs that update their colors automatically on 24-bit displays.

Cheers,

David

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