Subject: Re: Change Color Table

Posted by davidf on Thu, 01 Apr 1999 08:00:00 GMT

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

- > Having 2 widget-draw in a dialog I want to be able to apply 2 different
- > color tables for these 2 widgets individually. I tried to do this with
- > XLoadCT, but it changes color tables in both 2 widgets.

If you are running on an 8-bit display, you have to divide you color table in half and scale your image data to use only values in one or the other half of the color table range. Then, be sure to use the NCOLORS keyword with XLOADCT:

image = LoadData(7) LoadCT, 5, NColors=100 Window, 0, XSize=360, YSize=360 TV, BytScl(image, Top=99) LoadCT, 3, NColors=100, Bottom=100 Window, 1, XSize=360, YSize=360 TV, BytScl(image, Top=99) + 100B

Now, to change colors in the first window:

XLoadCT, NColors=100

To change colors in the second window:

XLoadCT, NColors=100, Bottom = 100

With 24-bit color everything is a whole lot simpler. Just change the color tables and display the images. Be sure to turn color decomposition OFF.

(LoadData can be downloaded from my web page.)

The only thing that XColors will give you that XLoadCT will not is the ability to have more than one color table tool on the display at once. XLoadCT can't do this because it uses the dreaded Common block to store its color information. :-(

XColors, NColors=100, Title='Window 0 Colors' XColors, NColors=100, Bottom=100, Title='Window 1 Colors'

- > I've got the XColor.pro of D.Fanning, but I cannot compile it since my
- > IDL

```
    version is 5.0. The compilator signals this error:
    nelements = SIZE(info.notifyobj, /N_Elements)
    % Keyword parameters not allowed in call.
    At: /home/black/tvk/programming/idl/examples/xcolors.pro, Line 446
    % 1 Compilation errors in module XCOLORS_SET.Badly placed ()'s
    I guess probably IDL5.0 doesn't support this command that way (but only IDL5.2). Is this true?
```

The SIZE function gained a lot of new keywords in IDL 5.1 or 5.2 (can't really remember) that give you easier access to the information in the SIZE function. Most of us had already written our own IDL functions to access this information, but it was a nice surprise to see RSI add these keyword features. It makes code more portable...or, at least it will once everyone upgrades to IDL 5.2. :-)

You can either download an earlier version of XColors from the "old program" archive on my web page, or replace the offending line of code with something like this:

```
s = Size(info.notifyobj)
nelements = s[s[0]+2]
```

Cheers,

David

--

David Fanning, Ph.D.

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Change Color Table
Posted by davidf on Fri, 02 Apr 1999 08:00:00 GMT
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Stein Vidar Hagfors Haugan (steinhh@ulrik.uio.no) writes:

- >> You can either download an earlier version of XColors from
- >> the "old program" archive on my web page, or replace the
- >> offending line of code with something like this:

>>

- > I've never understood why anybody would want to use the
- > /N_Elements keyword in Size() given the availability of
- > the built-in function n_elements(). Portability plus
- > backwards compatibility, what more could you want..?

This is just one of the tricks you learn when you get paid by the hour to write programs. Not only is this TWO lines instead of one, its a lot harder to understand. Very rare to get two positive benefits with the same piece of code. :-)

Cheers.

David

--

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Subject: Re: Change Color Table Posted by steinhh on Fri, 02 Apr 1999 08:00:00 GMT

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David Fanning wrote:

- > You can either download an earlier version of XColors from
- > the "old program" archive on my web page, or replace the
- > offending line of code with something like this:

>

- > s = Size(info.notifyobj)
- > nelements = s[s[0]+2]

But why not just use n_elements(info.notifyobj) instead?

I've never understood why anybody would want to use the /N_Elements keyword in Size() given the availability of the built-in function n_elements(). Portability plus backwards compatibility, what more could you want..?

Regards,

Stein Vidar