Subject: Re: color table question Posted by David Fanning on Sat, 16 Mar 2002 01:19:48 GMT View Forum Message <> Reply to Message

Rob Dimeo (robert.dimeo@nist.gov) writes:

- > I suspect that this question will have a very simple answer (hoping.
- > anyway).

- > I want to display an image using color table 6 but this color table
- > does not have white in it. Next I want to display a white crosshairs
- > on top of the image. The way that I do this is not ideal because I am
- > loading the black-white color table after displaying the color image
- > in the window but before I draw the crosshairs (see test code below).
- > The reason that this is not ideal is that, in my application, I am
- > really moving this crosshairs around the screen as the cursor moves
- > over the image. Motion events are being generated resulting in many
- > calls to loadct, slowing down the whole works.

>

- > I guess what I am really asking for is a persistent way to specify the
- > color of something as white (for instance) when a particular color
- > table has been loaded. I suspect that I can replace one of the color
- > table entries with [255,255,255] for instance? I just am not sure how
- > to do this.

Typically, one loads "image" colors in one part of the color table and "drawing" colors in another. I always put drawing colors at the top of the color table, because it is easier to restrict image display to the bottom of the color table (you don't have to add anything to the byte scaled image data). I'd set this color table up like this:

topColorIndex = !D.Table_Size - 1 LOADCT, 6, NColors=topColorIndex TVLCT, 255, 255, 255, topColorIndex

Then, I'd display my image like this:

TV, BytScl(image, Top=topColorIndex-1)

And I would draw the cursor like this:

PlotS, x, y, /Device, Color=topColorIndex

If you liked this color table you could save it and use it over again. Here, for example, is one way to do that:

TVLCT, rr, gg, bb, /Get Save, rr, gg, bb, File='mycolortable.sav'

Then, when you wanted to use it, you could do this:

Restore, 'mycolortable.sav' TVLCT, rr, gg, bb

Just remember to scale your image data into the number of colors you are using as "image" colors in the color table. You might even want to save a variable with this information with your color table information.

Cheers,

David

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