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Subject: Re: display problem mac osx

Posted by [David Fanning](#) on Mon, 03 Apr 2006 12:56:25 GMT

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Cris Lanting writes:

- > I have a rather strange display problem. Since I'm working on
- > (functional) MR imaging
- > I've written a little program which scales one data-set in the range
- > 0-127 and one data-set in the range
- > 128-255 to make a color overlay of the (thresholded) second image over
- > the first image by adjusting the colortable.
- > This works both in Windows and Linux but MacOSX (10.4.5) seems to
- > handle this a bit strange. Especially when I display a colorbar (thanks
- > David) the colors are displayed correctly in the colorbar but not in
- > the image itself.
- >
- > Here is my code to construct my colortable:
- >
- > ncolors = !D.Table\_Size
- > halfcolors = Byte(ncolors / 2)
- > loadct,0,ncolors=halfcolors
- > loadct,3,ncolors=halfcolors,bottom=halfcolors
- >
- > and for the scaling of the data the following snippet:
- > im1=bytsc1(image1,top=halfcolors-1)
- > im2=bytsc1(image2>threshold,top=halfcolors-1)+halfcolors
- > etc...
- >
- > When I use tv (or my own equivalents) to show my data to the display
- > the colors in the image are not correct but the colors in the colorbar
- > are....
- > Any suggestions about this peculiar problem?

I'm guessing this problem would go away if you used TVIMAGE or IMGDISP, which are better about knowing what color environment they need to be in to display an image than TV. I base this on the fact that COLORBAR works when your image doesn't.

There could be something strange about the way the Mac handles colors (now *\*there\** is something that would surprise me! :^). But I would use a better TV command first, and see if that doesn't solve this and a whole lot more problems for you. :-)

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

Cheers,

David

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David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: display problem mac osx  
Posted by [Cris Lanting](#) on Wed, 05 Apr 2006 08:05:37 GMT  
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That really helps indeed! (I still don't really know why but I don't want to spend much time on the why's! It finally works; lets focus on the 'important' stuff)

I could have known this because I already stumbled over tvimage a while ago but since some part of the tools I (ab)use were written by someone else who used tv/tvscl. I never thought of it.... time for some rewriting of tv-dependent code

(It is by the way a tool which draws/displays 3 orthogonal slices of a 3d data set of an anatomy MR scan with some functional ('brain-activation') images drawn superimposed on this. With the mouse it is quite easy to get an impression rather than staring at multiple 2d images....which in some cases does the job ;-)

Thanks anyway!

Greetings,  
Cris

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Subject: Re: display problem mac osx  
Posted by [David Fanning](#) on Wed, 05 Apr 2006 13:31:42 GMT  
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Cris Lanting writes:

> (I still don't really know why but I don't  
> want to spend much time on the why's!)

I'd suggest intellectual laziness as a theory, but I don't want to deal with the icy stares and the discussion of divorce papers again. :-(

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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