## Subject: changing the color map without having to re-load an image Posted by msauvage on Wed, 03 Apr 2002 09:12:02 GMT

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Hi there,

since I recently changed my work environment from an X-terminal running on a solaris network to a mac on OSX with Xfree86, I'm experiencing a strange problem with colors: I cannot modify the color map (e.g. with xloadct, or by loading a new table with the command line) and have these changes apply to the already displayed images. The changes will only affect the images I load after the change.

I never experienced this problem in my previous configuration. The problem appears to be connected to the way I'm working now: I'm using Xdarwin (basically that's Xfree86 compiled form Mac OS X) to start an X session on the mac, then I connect to a solaris machine and run IDL there on remote.

At first I couldn't even use colors, but searching around made me stumble on

device, decompose=0

Which solves this problem. So now I can use colors, any color table, in fact. I can modify the color table with xloadct, and I see the color table changing in the xloadct widget, but these changes do not affect the already opened graphics window and I have to reload the images to see the changes (I' ve tried setting retain to 2 but I don't think this addresses my problem). This is a pain because in my field, astronomy, I have to do this almost all the time to actually see what's in the images, and explore the structure of the objects.

I checked on both the Mac and the unix server which types of visual were supported (with xpdyinfo) and apparently the same types are supported on both side. Currently I'm set to true\_color. Also worth knowing: my version of IDL is 5.4.

Anyone with ideas on how to solve this problem is welcome.

Marc.

Subject: Re: changing the color map without having to re-load an image Posted by Karl Schultz on Wed, 03 Apr 2002 15:51:55 GMT View Forum Message <> Reply to Message

"Marc Sauvage" <msauvage@cea.fr> wrote in message

news:59bc2798.0204030112.6e521c7e@posting.google.com...

- < snip >
- > I checked on both the Mac and the unix server which types of visual
- > were supported (with xpdyinfo) and apparently the same types are
- > supported on both side. Currently I'm set to true color. Also worth
- > knowing: my version of IDL is 5.4.

>

> Anyone with ideas on how to solve this problem is welcome.

>

Marc.

On my Xdarwin (based on XFree 4.2) here, the X server reports only 24-bit TrueColor (immutable) visuals - no 8-bit visuals. The lack of support for an

indexed visual or a visual with a writable colormap would indeed prevent you from doing fast color table animation. It would be nice if these X servers would support an 8-bit PseudoColor visual - so many X apps "rely" on that.

If you really do have an 8-bit PseudoColor visual on your server, then perhaps DEVICE,

PSEUDO\_COLOR = 8 (before creating a window) would force IDL to use the 8-bit visual.

Karl

Subject: Re: changing the color map without having to re-load an image Posted by David Fanning on Thu, 04 Apr 2002 01:09:12 GMT View Forum Message <> Reply to Message

Stein Vidar Hagfors Haugan (shaugan@esa.nascom.nasa.gov) writes:

- > Yes, brave new world and all that. Wonderful progress we've had, when
- > you can no longer interactively modify and view the results of color
- > table changes without making or using a full-fledged
- > application... Sort of takes the I out of IDL, as I've said a few
- > times before. But I guess astronomers & fellow tinkerers are not the
- > main group of customers if we had been, a proper system would have
- > been worked out (i.e. for any direct graphics window, you can
- > associate a certain color table, which you can modify independently of
- > the others. They do it in object graphics, but those are not really
- > something you'd like to play with from the IDL> prompt directly ;-)

Hell, I routinely write 500+ lines of object graphics code in the built-in IDL editor:

IDL> .run

```
IDL> - myplot = Obj_New('IDLgrPlot', data)
IDL> - etc
IDL> END
```

:^)

- > By the way, on my system (1) I \*can\* do what you want (with some
- > pointing and clicking in the display windows after startind xloadct),
- > so it is quite platform/visual dependent.

Yes, the DirectColor visual is suppose to give you the best of both worlds. And I've actually seen it running correctly...once. :-)

Cheers,

David

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

Subject: Re: changing the color map without having to re-load an image Posted by msauvage on Thu, 04 Apr 2002 10:19:26 GMT View Forum Message <> Reply to Message

Just a few words:

(1) to thank you for the input

- (2) Indeed I have checked that in my previous configuration, I was using 8-bit colors, and not I'm using 24-bit colors.
- (3) Indeed XDarwin only supports TrueColor 24-bit visuals. I've tried modifying that but that's not possible so the DirectColor option is not one here.
- (4) I'm digging into Xcolors, let's see how I can make this work for me (most of the tools I use to search images are widgets so in principle thay should be able to "hear" xcolors).

Marc