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Subject: 24 bit displays, private colormaps, and other things that keep my up  
Posted by [Aviv Gladman](#) on Fri, 12 Sep 1997 07:00:00 GMT

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I don't mind the color flashing that results from a private colormap using IDL/X windows, my problem is this: Why don't widgets use the same colormap as the rest of IDL? In 8-bit pseudo-color mode (on my 24-bit fvwm-managed X display), I can display an image using:

```
window  
tvscf,image
```

and get the correct image colors only when I have the mouse on the image (fine, I can deal with that). If I create a widget using:

```
base=widget_base()  
draw=widget_draw(base)  
widget_control,base,/realize  
widget_control,draw,get_value=drawID  
wset,drawID  
tvscf,image
```

I get the wrong colormap, same as before, but if I put my mouse on the widget, I don't get back the correct colormap. Like I said, I don't mind the flashing, but does anyone know how to make sure that *\*all\** IDL windows use the same colormap?

Frustrated,

Aviv S. Gladman

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Subject: Re: 24 bit displays, private colormaps, and other things that keep my up  
Posted by [Aviv Gladman](#) on Thu, 18 Sep 1997 07:00:00 GMT

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Well, I've received a number of suggestions from various sources, none of which have been entirely useful (thanks for the suggestions, though!). The IDL pseudo-color mode/widget colormap problem that I seem to have is not fvwm dependent, which had been suggested by someone (I have the same problem running olwm). True color mode is entirely unsatisfactory because the redraw time on 3D image sets during thresholding procedures (where the user varies the colormap in real-time to visually determine a threshold level) is far too slow. My basic problem seems to stem from the fact that IDL/Motif widgets use the shared colormap associated with the Motif/X root window, rather than using the private colormap associated with the pseudo-color IDL session. I can solve the problem by using a shared colormap for the entire session (say, `idl*colors=-5`), but this

considerably restricts the number of colors available to IDL. Does anyone know how to force IDL widgets to use the IDL colormap rather than the root window colormap?

I am using:

Sun Ultra 1, running fvwm or olwm, Solaris, IDL 5.0 (sunos/sparc), 24-bit display, pseudo-color mode, private colormap (256 colors)

IDL> help, /device

Available graphics\_devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X Z

Current graphics device: X

Server: X11.0, Sun Microsystems, Inc., Release 3510

Display Depth, Size: 8 bits, (1280,1024)

Visual Class: PseudoColor (3)

Bits Per RGB: 8

Physical Color Map Entries (Used / Total): 256 / 256

Colormap: Private, 256 colors. Translation table: Enabled

Graphics pixels: Combined, Dither Method: Ordered

Write Mask: 255 (decimal) ff (hex)

Graphics Function: 3 (copy)

Current Font: <default>

Default Backing Store: Req from Server.

Thanks,

Aviv S. Gladman

On Thu, 18 Sep 1997, Christian Stoecklin wrote:

>

> Aviv Gladman wrote:

>> I get the wrong colormap, same as before, but if I put my mouse on the

>> widget, I don't get back the correct colormap. Like I said, I don't mind

>> the flashing, but does anyone know how to make sure that \*all\* IDL

>> windows use the same colormap?

>

> The problem is that you are in pseudo-color mode with private

> colormaps. You have to change in you .Xdefault:

>

>

> idl.gr\_visual: TrueColor

> idl.gr\_depth: 24

> Idl\*colors: -5

>

> in this case idl is running in true-color mode with

> shared colormaps. But if you change the colormap

> you have to plot your image again to update the  
> colors.  
>  
> I hope this helps,  
>  
> Christian Stoecklin  
>  
> --  
> Christian Stoecklin (dipl.phys.ETH)  
> Scientific Assistant, Image Science Group  
> Swiss Federal Institute of Technology (ETH), Zuerich  
> tel: +41-1-632 51 63 email: cstoeckl@vision.ee.ethz.ch  
>  
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Subject: Re: 24 bit displays, private colormaps, and other things that keep my up  
Posted by [David Foster](#) on Fri, 19 Sep 1997 07:00:00 GMT

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Aviv Gladman wrote:

> My basic problem seems to stem from the fact that  
> IDL/Motif widgets use the shared colormap associated with the Motif/X root  
> window, rather than using the private colormap associated with the  
> pseudo-color IDL session. I can solve the problem by using a shared  
> colormap for the entire session (say, `idl*colors=-5`), but this  
> considerably restricts the number of colors available to IDL.

Doesn't this just tell IDL to leave alone 5 colors which will be used  
by the window system or other applications. That doesn't considerably  
restrict the number of colors available.

I use IDL 5.0 on an Ultra with Solaris also, but with OpenWindows,  
and I don't experience this problem.

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