Subject: Re: Problems with color tables and write\_png Posted by David Fanning on Mon, 17 Sep 2007 20:45:30 GMT

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kathryn.ksm@gmail.com writes:

- > I think I'm in over my head with IDL's color handling, and I would be
- > so grateful for any help!

You have problems. :-)

Could you tell us, please, the result of the following command:

IDL> Help, /Device

Thanks.

David

\_-

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: Problems with color tables and write\_png Posted by kathryn.ksm on Mon, 17 Sep 2007 20:54:39 GMT View Forum Message <> Reply to Message

> You have problems. :-)

Beyond being too stupid to understand IDL's colors?

>

- > Could you tell us, please, the result of the following
- > command:

>

> IDL> Help, /Device

Here's what I get:

IDL> help, /device

Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X

Ζ

Current graphics device: X

Server: X11.0, The X.Org Foundation, Release 60802000

Display Depth, Size: 24 bits, (1280,1024)

Visual Class: TrueColor (4) Bits Per RGB: 8 (8/8/8) Physical Color Map Entries (Emulated / Actual): 256 / 256

Colormap: Shared, 16777216 colors. Translation table: Enabled Graphics pixels: Decomposed, Dither Method: Ordered

Write Mask: 16777215 (decimal) ffffff (hex)

Graphics Function: 3 (copy)

Current Font: <default>, Current TrueType Font: <default>

Default Backing Store: Pixmap.

I should note that I have problems like this whenever I use any form of color table. I routinely make contour plots with a greyscale colortable, and when I write those to png files, the background always goes blue. Not such a big deal there, but when I am trying to use the colors to represent things, I have trouble.

Thanks!

Kathryn

Subject: Re: Problems with color tables and write\_png Posted by David Fanning on Mon, 17 Sep 2007 21:45:53 GMT View Forum Message <> Reply to Message

kathryn.ksm@gmail.com writes:

- >> You have problems. :-)
- >
- > Beyond being too stupid to understand IDL's colors?

I'm not sure these problems are of your own devising. :-)

- >> Could you tell us, please, the result of the following
- >> command:
- >>
- >> IDL> Help, /Device

>

- > Here's what I get:
- > IDL> help, /device
- > Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X
- > Z
- > Current graphics device: X
- > Server: X11.0, The X.Org Foundation, Release 60802000
- > Display Depth, Size: 24 bits, (1280,1024)
- > Visual Class: TrueColor (4)
- > Bits Per RGB: 8 (8/8/8)
- > Physical Color Map Entries (Emulated / Actual): 256 / 256
- > Colormap: Shared, 16777216 colors. Translation table: Enabled

Well, "enabled" bothers me. And it could explain a great many of these odd problems, it seems to me. Is it possible you are running some kind of a startup file (either IDL or .cshrc or something) that is turning this translation table feature on? Maybe something you got from a friend who doesn't have your best interests at heart?

Anyway, try this:

DEVICE, BYPASS\_TRANSLATION=0

Now do colors make more sense to you. In particular, TVREAD should now be able to make a PNG of what is in your window without difficulty.

IDL> void = TVREAD(/PNG)

Let us know.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: Problems with color tables and write\_png Posted by David Fanning on Mon, 17 Sep 2007 21:47:28 GMT View Forum Message <> Reply to Message

kathryn.ksm@gmail.com writes:

- > Here's what I get:
- > IDL> help, /device
- > Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X
- > 7
- > Current graphics device: X
- > Server: X11.0, The X.Org Foundation, Release 60802000
- > Display Depth, Size: 24 bits, (1280,1024)
- > Visual Class: TrueColor (4)
- > Bits Per RGB: 8 (8/8/8)
- > Physical Color Map Entries (Emulated / Actual): 256 / 256
- > Colormap: Shared, 16777216 colors. Translation table: Enabled
- > Graphics pixels: Decomposed, Dither Method: Ordered

- > Write Mask: 16777215 (decimal) ffffff (hex)
- > Graphics Function: 3 (copy)
- > Current Font: <default>, Current TrueType Font: <default>
- > Default Backing Store: Pixmap.

And you are physically sitting on this machine, right? You aren't running over some kind of X window emulator or anything?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: Problems with color tables and write\_png Posted by kathryn.ksm on Mon, 17 Sep 2007 21:58:09 GMT View Forum Message <> Reply to Message

>> Colormap: Shared, 16777216 colors. Translation table: Enabled

>

- > Well, "enabled" bothers me. And it could explain a great
- > many of these odd problems, it seems to me. Is it possible
- > you are running some kind of a startup file (either IDL
- > or .cshrc or something) that is turning this translation
- > table feature on? Maybe something you got from a friend who
- > doesn't have your best interests at heart?

>

> Anyway, try this:

>

> DEVICE, BYPASS TRANSLATION=0

>

Ah, that's intriguing... actually, I think DEVICE, BYPASS\_TRANSLATION=1 is what I want. I had DEVICE, BYPASS\_TRANSLATION=0 in a startup file that, indeed, I got from a friend (who probably didn't have my best interests in mind). Almost everything else in that startup file makes sense to me, but I had no idea about this one. And bingo! That seems to be the trick. By setting the bypass to 1 I got a png file that actually looks right! I think that might have solved the problem....

Thanks so much! Phew!

Kathryn