
Subject: Re: Screen dump to file - color problems
Posted by [David Fanning](#) on Wed, 16 Jul 2003 19:05:47 GMT
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Richard G. French writes:

> Thanks for any hints.

Do you know those little, tiny square glasses they use for viewing 3D movies? Might work. :-)

If you tried all this and you are still having problems, my guess is "bug". But before we give in, is your display set to 16-bit or 24-bit graphics? In other words, what is the result of this command?

```
IDL> Device, Get_Visual_Depth=theDepth & Print, theDepth
```

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Screen dump to file - color problems
Posted by [btt](#) on Wed, 16 Jul 2003 20:12:09 GMT
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David Fanning wrote:

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> my guess is "bug". But before we give in, is your
> display set to 16-bit or 24-bit graphics? In other
> words, what is the result of this command?
>
> IDL> Device, Get_Visual_Depth=theDepth & Print, theDepth

Hi,

I get the proper color scheme in the jpeg with the following using your code. The following is from my machine before I run your code...

```
IDL> device, get_visual_depth = vdepth & help, vdepth
VDEPTH      LONG      =      24
IDL> print, !version
{ ppc darwin unix Mac OS X 5.6 Oct 26 2002    32    32}
IDL> help, /dev
Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X Z
Current graphics device: X
  Server: X11.0, The XFree86 Project, Inc, Release 40200000
  Display Depth, Size: 24 bits, (1280,1003)
  Visual Class: TrueColor (4)
  Bits Per RGB: 8 (8/8/8)
  Physical Color Map Entries (Emulated / Actual): 256 / 256
  Colormap: Private, 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: Req from Server.
```

There is a different release number for X11. Also, your "Graphics pixels" are combined while mine are decomposed.

Ben

Subject: Re: Screen dump to file - color problems
Posted by [Karl Schultz](#) on Wed, 16 Jul 2003 22:16:31 GMT
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"Richard G. French" <rfrench@wellesley.edu> wrote in message
news:BB3B0ABB.ACC%rfrench@wellesley.edu...

- > I'm running IDL5.6 on a Mac and I'm having trouble getting a screen dump of
- > a color image to a file - the colors are not working properly. I've tried
- > using David Fanning's TVREAD(), I've tried FSC_WINDOW, and I've tried every
- > combination of decomposed=0, decomposed=1, TRUE=1, TRUE=0, etc with no
- > success. Two symptoms - the background color of the window was supposed to
- > be white, but it ends up being blue; the color table for the image itself
- > seems to be wrapped over itself.
- >
- > Can someone help save my sanity? Here is what fails on my Mac running OS
- > 10.2 and X11 Beta 3 - XFree86 4.2.1
- >
- > IDL> help,/dev

```

> Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X Z
> Current graphics device: X
>   Server: X11.0, The XFree86 Project, Inc, Release 40201000
>   Display Depth, Size: 24 bits, (2560,1024)
>   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: Combined, Dither Method: Ordered
>   Write Mask: 16777215 (decimal) ffffff (hex)
>   Graphics Function: 3 (copy)
>   Current Font: <default>, Current TrueType Font: <default>
>   Default Backing Store: Req from Server.
> IDL> print,!version
> { ppc darwin unix Mac OS X 5.6 Oct 26 2002    32    32}
>
>
> I tried just doing the actual TVRD() commands, following what is in the
guts
> of David Fanning's TVREAD:
>
>
> Device,decomposed=0 ; for the display of the image
> Loadct,3
> Window,xsize=400,ysize=400
> Erase,color=255 ; make white background
> Tvscl,dist(300),50,50
> Device,decomposed=1
> Result=tvrd(/TRUE)
> Write_jpeg,'tryit.jpg',result,/TRUE
> Device,decomposed=0
>
> When I display the jpeg file, I get a blue background and a green diamond
in
> the middle of the image.
>
> I'm willing to admit that I am blind and stupid! I'm using code that seems
> to have worked last year on whatever machine I might have been using, but
I
> can't get it to work now, and it is driving me crazy.

```

I ran your code sequence on a Mac running 10.2 and X11 Beta 0.2 and got the right results.

I'm thinking that the problem might be that you are using X11 Beta 0.3. Apple added 8-bit visual support in 0.3, but there are a lot of bugs in this support that can cause some pretty strange problems with Direct Graphics. We noticed a lot of problems with displaying image data. And if there are

problems with displaying the images, there certainly can be problems with reading them back.

We've reported all this to Apple, but unfortunately, there will be no more Beta X11 releases for 10.2. The soonest you'll be able to get a fix for this is when 10.3 comes out and you'll have to upgrade to that.

In the meantime, you might try going back to Beta 0.2.

Karl

Subject: Re: Screen dump to file - color problems
Posted by [Richard French](#) on Thu, 17 Jul 2003 01:08:05 GMT
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On 7/16/03 3:05 PM, in article MPG.197f4ff75447029b9896aa@news.frii.com, "David Fanning" <david@dfanning.com> wrote:

> Richard G. French writes:
>
>> Thanks for any hints.
>
> Do you know those little, tiny square glasses they
> use for viewing 3D movies? Might work. :-)
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> If you tried all this and you are still having problems,
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> display set to 16-bit or 24-bit graphics? In other
> words, what is the result of this command?
>
> IDL> Device, Get_Visual_Depth=theDepth & Print, theDepth
>
> Cheers,
>
> David

YES, I get 24.

Anyone else have a PowerBookG4 running X11 that you can try this on?

By the way, I was running idl, not idlde. Not sure if that would make any difference, but I'll try it.

Is there a chance that something in my idl.startup file could be messing things up? Possibly relevant lines in the file are:

```
device,true_color=24
```

```
window,/FREE,/PIXMAP,colors=-10,xsize=10,ysize=10
wdelete,!d.window
device,decomposed=0,retain=1
device,BYPASS_TRANSLATION=0 ; to fix color problem in IDL5.5
```

Subject: Re: Screen dump to file - color problems
Posted by [Richard French](#) on Thu, 17 Jul 2003 03:28:41 GMT
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On 7/16/03 9:08 PM, in article BB3B3262.AD6%rfrench@wellesley.edu, "Richard G. French" <rfrench@wellesley.edu> wrote:

```
> On 7/16/03 3:05 PM, in article MPG.197f4ff75447029b9896aa@news.frii.com,
> "David Fanning" <david@dfanning.com> wrote:
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>> Richard G. French writes:
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> wdelete,!d.window
> device,decomposed=0,retain=1
```

```
> device,BYPASS_TRANSLATION=0 ; to fix color problem in IDL5.5  
>  
>
```

The offending command was the last one - I am not sure what problem in IDL5.5 was supposedly solved by including this command, but when I delete it, the screen capture works correctly. Thanks to those of you who gave me some help on this. Everything had worked under IDL5.5, now that I think of it. I'm delighted!

Dick
