
Subject: Re: More Questions on 24 bit color
Posted by [davidf](#) on Sat, 14 Nov 1998 08:00:00 GMT
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Kevin Ivory (Kevin.Ivory@linmpi.mpg.de) writes:

> Reinhold Schaaf (schaaf@astro.uni-bonn.de) writes:
>> But, although the plot in the IDL-window is white (I mean: **really**
>> white), the background color in the gif-image is not **really** white,
>> but instead a light grey.
>
> David Fanning wrote:
>> Reinhold, I'm sorry to say that this problem cannot be laid
>> on IDL's doorstep. This is a Windows problem. I just ran
>
> Well, it is not a problem of MS Windows - Linux shows the same effect.
> I think COLOR_QUAN gets something mixed up. Try this:

Well, you may be right, Kevin.

Try this program:

```
PRO TEST
x = FINDGEN(101)
y = SIN(x/10)

red  = [0, 1, 1, 0]
green = [0, 1, 0, 0]
blue  = [0, 1, 1, 0]
TVLCT, 255*red, 255*green, 255*blue
TVLCT, r, g, b, /Get
Print, 'Original Color Table Max Values: ', Max(r), Max(g), Max(b)
DEVICE, DECOMPOSED=0

PLOT, x, y, BACKGROUND=1, COLOR=2
snapshot = TVRD(True=1)
image2D = COLOR_QUAN(snapshot, 1, r, g, b, Colors=4)
Print, 'Colors = 3 Test: ', Max(r), Max(g), Max(b)
WRITE_GIF, 'test_one.gif', image2D, r, g, b

image2D = COLOR_QUAN(snapshot, 1, r, g, b, Cube=2)
Print, 'Cube = 2 Test: ', Max(r), Max(g), Max(b)
WRITE_GIF, 'test_two.gif', image2D, r, g, b
END
```

The results I get are these:

IDL> Test

Original Color Table Max Values: 255 255 255
Colors = 3 Test: 248 248 248
Cube = 2 Test: 255 255 255

Moreover, the test_two.gif file shows up with a VERY white background in Microsoft Word! :-)

I'll ask RSI and see if we can get some kind of explanation for this.

Cheers,

David

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