
Subject: Re: Does object graphics have true-color?
Posted by [Rick Towler](#) on Thu, 28 Sep 2006 17:49:06 GMT
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Object graphics on a

yy wrote:

```
> In direct graphics, I can use the following to define my own colors:  
> cc=0.99*tanh((findgen(ncolors)/30-4.)/2.)/2+0.5  
> plots,[0,u],[0,v],[0,w], /t3d, $  
> color=256.^2*B(cc(c)*255.)+256.*G(cc(c)*255.)+R(cc(c)*255.)
```

ummm. o.k.

```
> Can I do the same thing in object graphics?  
> Does SetRGB in IDLgrPalette work in the  
> same way? Thank you!
```

Unless you specify otherwise, object graphics uses an RGB color model so you can define your colors however you wish. You'll probably find it easier to simply define your colors as an RGB triplet instead of as an index into a palette.

```
myPlot = OBJ_NEW('IDLgrPlot', FINDGEN(360), $  
    SIN(FINDGEN(360)*!DTOR)*!RADEG, COLOR=[255,100,50]  
myModel = OBJ_NEW('IDLgrModel')  
myModel -> Add, myPlot  
XOBJVIEW, myModel, /BLOCK  
OBJ_DESTROY, myModel
```

-Rick

Subject: Re: Does object graphics have true-color?
Posted by [yy](#) on Fri, 29 Sep 2006 20:44:23 GMT
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Rick Towler wrote:

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> XOBJVIEW, myModel, /BLOCK
> OBJ_DESTROY, myModel
>
>
> -Rick

```

I tried to use color to visualize the phase and intensity of a field by

the following definition:

```

; Define RGB value of the palette
red = phase*Intensity
green = (255-phase)*Intensity
blue = fltarr(128,128)
oPalette = OBJ_NEW('IDLgrPalette', red, green, blue)
; Use the palette to draw the picture
olmage = OBJ_NEW('IDLgrImage', BYTSCL(phase*intensity), $
  PALETTE = oPalette)

```

The purpose of such a definition is: the intensity affects the brightness of the image, and the phase affects the hue of the image.

However, I think there is something wrong when I use this palette to draw my picture. My problem is I don't know how to address the color map I defined meaningfully. In this case, the data becomes the multiplication of the phase and intensity, which I don't think will use the palette correctly. But I don't know how to make this correct.

Jingyi
