
Subject: Re: R,G,B image

Posted by [davidf](#) on Tue, 09 Dec 1997 08:00:00 GMT

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Luis M. Gonzalez (lmgc@gmv.es) writes:

- > I have a bi-dimensional image as a three R,G,B vectors.
- > Is it possible to display it directly within IDL? Or should we
- > convert each RGB triple into an index to the color table?.

Here is what I would do. Suppose your vectors (r, g, b) describe a 400 by 300 image.

; Create a 24-bit pixel interleaved image.

```
image24 = BytArr(3, 400, 300)
image24[0,*,*] = Reform(r, 400, 300)
image24[1,*,*] = Reform(g, 400, 300)
image24[2,*,*] = Reform(b, 400, 300)
```

; Display the 24-bit image directly in IDL.

TV, image24, True=1

The last command would tie your image to the color table indices. That is, the image values would be run through the color tables when they are displayed to select the display color. You may prefer to see the "true" color.

If you are on an 8-bit system (I presume you are from your color table question), then you may want to do this:

```
trueColorImage = Color_Quan(image24, 1, red, green, blue)
TVLCT, red, green, blue
TV, trueColorImage
```

Cheers,

David

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