
Subject: Postscript color problem

Posted by [K. Bowman](#) on Thu, 30 Sep 2004 20:26:01 GMT

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I have a program that displays a horizontal 24-bit (RGB) color bar. The color bar is an (ncolors x 2 x 3) array.

Here's an example with 60 colors changing from blue to red:

```
IDL> help, image
IMAGE      BYTE      = Array[60, 2, 3]
```

Here are the RGB values of the first 10 columns

```
IDL> print, image[0:9,0,*]
 0  7 15 23 31 39 47 55 63 71
 0  7 15 23 31 39 47 55 63 71
255 255 255 255 255 255 255 255 255 255
```

The first column is pure blue (0, 0, 255). In succeeding columns the R and G values increase so the color shifts toward white.

Sending this image to the screen with TV (using CONGRID) works fine.

Here is the Postscript output from the same program using (values are hexadecimal)

```
00 00 b2 17 1f 27 2f 37 3f 47
00 ff b2 17 1f 27 2f 37 3f 47
ff ff ff ff ff ff ff ff ff
```

Translated to decimal, this is

```
0  0 178 23 31 39 47 55 63 71
0 255 178 23 31 39 47 55 63 71
255 255 255 255 255 255 255 255 255 255
```

The R and G values of the second and third columns are wrong (e.g., the value in the second column (0, 255, 255) is cyan). After that everything is OK. The same thing happens at the other end of the table. The second and third elements from the end are wrong, and of course, the colors in the graphic are wrong at those locations.

Any ideas?

Ken Bowman
