
Subject: Why does color change to b/w when using PNG?

Posted by [bleau](#) on Tue, 16 Mar 2004 22:59:13 GMT

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I'm running IDL 5.4 on OpenVMS 7.1-2 and am trying to do some plots.

Previously, we were using the ps device (SET_PLOT,'PS') and generating PostScript files for each plot. We now want to generate PNG files as well.

I copied all the IDL code that generated the PostScript file, changed SET_PLOT,'PS' to SET_PLOT,'Z', removed most of the device commands (since few of them apply to the Z device), and ran the IDL code to test it out.

It ran without errors, which is the good news. The bad news is that the output PNG file seems to be almost all black, with a few white dots where the data should be, and absolutely no color; the original had color all over the place. Sounds like a simple case of the color table being wrong, I thought.

But wait: the PS device used a color table, too, and I didn't change that part of the code at all! Here's the code that sets up the color table:

```
; set up a simple color table
```

```
bbc = 255b
```

```
bfg = 0b
```

```
red = [bbc, bfg, 255b, 0b, 0b, 0b, 255b, 255b, 255b, 127b, 0b, $  
      0b, 127b, 255b, 85b, 170b]
```

```
gre = [bbc, bfg, 0b, 255b, 0b, 255b, 0b, 255b, 127b, 255b, 255b, $  
      127b, 0b, 0b, 85b, 170b]
```

```
blu = [bbc, bfg, 0b, 0b, 255b, 255b, 255b, 0b, 0b, 0b, 127b, $  
      255b, 255b, 127b, 85b, 170b]
```

```
tv!ct, red, gre, blu
```

```
tv!ct, bfg, bfg, bfg, !d.n_colors-1
```

I checked, and `print,!d.n_colors-1` displays 255.

So, what's different between these two plot types (PS vs. PNG) that would cause the same code to produce different results? TIA.

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