Subject: Inexplicable tvrd() behavior Posted by BillG on Fri, 02 Mar 2007 20:42:57 GMT

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Can some one explain this behavior and offer a solution?

In direct graphics, indexed color mode,

- 1. I create a color plot in a window,
- read in back in with image1=tvrd()
- 3. plot it again in another window.

I would expect (want) that the two windows would be identical but they appear quite different: the image in the second window appears to be (image1*4 < 255). The following program illustrates the problem.

(Why indexed color? I want to create an color indexed png of the image but the resulting png looks like the image in window2) (Usual disclaimer: there is an explanation and solution obvious to anyone with any idl experience but its Friday, I have a headache, Also, I have read Fanning's Chapter 3 'Working with Color' to no avail)

```
;;A program to examine the behavior of tvrd
;;Set the graphics environment: indexed color
set plot, 'win'
                        ;set the device to 'win'
device, decom = 0
                            :indexed color
loadct, 39
                       :load the color table
::Create some data
pnts = 400
data = dist(pnts, pnts)
::Scale the data
image1 = bytscl(data)
::Plot the image
window, 0, xsize = pnts, ysize = pnts
tv, image1
;;Now read it back in
image2 = tvrd()
;;Open a new window and plot the image read in from window 0 to window
2: shouldn't
;;it appear exactly as window 0?
window, 2, xsize = pnts, ysize = pnts
tv, image2
```

Bill Gallery