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Subject: X and tvrd color scaling problem

Posted by [Michael Wallace](#) on Tue, 06 Jan 2004 04:39:56 GMT

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I'm having a strange problem with tvrd(). When using the Z buffer everything behaves as I expect. However, when using X tvrd() doesn't seem to scale the colors correctly.

For an example, I created a new window and added a colorbar. In the window, everything looks normal. But, if I grab the image with tvrd() and then immediately display it with tv, the colors get scaled incorrectly and there's a lot of white which is index 255 of the color table I'm using.

```
; create a window and a colorbar (a la Coyote)
device, DECOMPOSE = 0
loadct, 39
window, XSIZE = 400, YSIZE = 400
colorbar, format = '(A1)'
```

```
; everything looks normal so far...
; grab the image and display it with tv
image = tvrd()
tv, image
```

```
; what happened?! the scaling is funky and there's a lot of white!
```

However, if I use the Z buffer, everything behaves as I expect.

```
; create an image and a colorbar (a la Coyote)
device, DECOMPOSE = 0
loadct, 39
set_plot, 'Z', /COPY
device, SET_RESOLUTION = [400, 400]
colorbar, format = '(A1)'
```

```
; grab the image and switch back to X to display it
image = tvrd()
set_plot, 'X'
window, XSIZE = 400, YSIZE = 400
tv, image
```

```
; the image looks normal and there's no weird scaling
```

What gives? Why doesn't the X method capture the image correctly?

Mike

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