
Subject: TV oddities

Posted by [Axel vom Endt](#) on Thu, 01 Jul 1999 07:00:00 GMT

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Hi,

I just ran into some odd behaviour with TVing an array to the PostScript device. I get an additional column in color 255 on the right side of the image. No problem occurs if the number of columns is even or the X-Window device is used.

I haven't found this on dejanews, so I thought it might be interesting.

The problem can be seen in the following piece of code:

```
-- cut here ---
; some test data
image = [$
[ 255B, 130B, 144B],$
[ 102B,  0B, 124B],$
[  9B, 35B, 31B],$
[ 41B, 66B,  0B]]

; set the plot position and ranges
position = [0.1, 0.1, 0.9, 0.9]
xsize = (position[2] - position[0]) * !D.X_VSize
ysize = (position[3] - position[1]) * !D.Y_VSize
xstart = position[0] * !D.X_VSize
ystart = position[1] * !D.Y_VSize

; use an inverted color table (otherwise the extra column would be
white...)
Loadct, 0
Tvlct, r, g, b, /GET
Tvlct, Reverse(r), Reverse(g), Reverse(b)

IF !D.NAME EQ 'PS' THEN DEVICE, Filename='test.ps', /Landscape, /Color

; plot the image, odd number of pixels in x
IF !D.NAME EQ 'PS' THEN $
  TV, image, xstart, ystart, XSize=xsize, YSize=ysize $
ELSE $
  TV, Congrid(image, xsize, ysize), xstart, ystart
  Plot, [1], /nodata, /noerase, position=position, color=255,
  title='wrong', $
  xstyle=1, xrange=[0, (size(image))[1]], $
  ystyle=1, yrange=[0, (size(image))[2]]
```

```
IF !D.NAME EQ 'PS' THEN Erase ELSE Window, 1
```

```
; skip the last column -> even number of pixels in x  
image = image[0:(size(image))[1]-2, *]
```

```
IF !D.NAME EQ 'PS' THEN $  
  TV, image, xstart, ystart, XSize=xsize, YSize=ysize $  
ELSE $  
  TV, Congrid(image, xsize, ysize), xstart, ystart  
  Plot, [1], /nodata, /noerase, position=position, color=255,  
  title='right', $  
  xstyle=1, xrange=[0, (size(image))[1]], $  
  ystyle=1, yrange=[0, (size(image))[2]]
```

```
IF !D.NAME EQ 'PS' THEN DEVICE, /Close
```

```
END  
-- cut here ---
```
