Subject: Re: How to do RGB to CMYK conversion for PS output? Posted by Karl Schultz on Thu, 13 Jul 2006 19:23:05 GMT

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On Thu, 13 Jul 2006 14:31:22 -0400, Paul Van Delst wrote:

> Hello there, > A colleague produced a colour X-Y plot for a paper and saved it to a regular old PS file. > The editor mailed back stating that the file contains RGB colours and could we please > create the file in CMYK colours. > How does one do this? Using DEVICE,/CMYK produced exactly the same PS file. > > Doing, TVLCT,r,g,b,/GET CMYK CONVERT,c,m,y,k,r,q,b,/TO CMYK > produced the appropriate c, m, y, and k arrays, but how does one "load" the CMYK arrays to > be used? Doing TVLCT,c,m,y produced exactly what I thought would happen - no black. > Any ideas? Yes.

Try:

DEVICE, /CMYK, /COLOR

You need to put the device into color mode when you select CMYK:-).

Make sure that you do any LOADCT's after the DEVICE call.

You also should not need to put CMYK values in the color table with TVLCT/CMYK CONVERT. The PS device should do this for you.

For a program like:

SET_PLOT, 'ps' DEVICE, /CMYK, /COLOR LOADCT, 5 n = 50; Size of array for Bessel ; Make the Bessel function: a = BESELJ(SHIFT(DIST(n), n/2, n/2)/2, 0)

TVSCL, DIST(n) nlev = 8; Number of contour levels ; Make the Contour at normalized Z=.6: CONTOUR, a, /OVERPLOT, ZVALUE=.6, /T3D, \$ LEVELS=FINDGEN(nlev)*1.5/nlev-.5, COLOR=1 DEVICE, /CLOSE

you'll see an image in the PS file that uses a COLORTAB and and is rendered with something like:

{COLORTAB currentfile picstr readhexstring pop 0 get 4 mul 4 getinterval } bind false 4 colorimage

Things like contour lines will have postscript color commands like

1.000 1.000 0.000 0.980 setcmykcolor

Hope this helps,

Karl