Subject: Re: How to do RGB to CMYK conversion for PS output? Posted by Paul Van Delst[1] on Thu, 13 Jul 2006 19:55:30 GMT

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Karl Schultz wrote:
> 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,g,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,v
>> 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:-).
Yes, the COLOR switch was included in a previous DEVICE call (to set the other PS stuff)
> Make sure that you do any LOADCT's after the DEVICE call.
Ah. Yes, there were TVLCT calls 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:
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>

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>
> 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,
Excellent! Yep - we now have a cmyk output file! Thanks very much!
(The reason for the multiple !!!'s is that my colleague is leaving for a conference to
China for a couple of weeks and the editor wanted a reply today. So, tell your boss you
deserve a raise! :o)
cheers.
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