Subject: Re: image color representing a vector... Posted by Peter Mason on Wed, 16 Jun 1999 07:00:00 GMT

View Forum Message <> Reply to Message

<...>

John Stanly Videen <user@internet.com> wrote: <...> > for x=0,127 do begin for y=0,127 do begin > > red = ei(x,y) * ev(x,y,0); x direction > green = ei(x,y) * ev(x,y,1); у > blue = ei(x,y) * ev(x,y,2): z > > $out(x,y) = new_function(red, green, blue)$ > > endfor > endfor > tv, out

Somewhat hesitantly, from what you've got here I'd say that you're just looking for a function to take "unscaled" values "red", "green" and "blue" and get a coloured pixel from them.

If by some chance you don't have a copy of David Fanning's book on IDL programming techniques then I'd shamelessly recommend that you get a copy. He covers this stuff well.

But anyway, here are some ideas...

First, do the calc in one hit using array arithmetic: rgb_unscaled = REBIN(REFORM(ei,nx,ny,1),nx,ny,3) * ev (Rgb_unscaled has dimensions [nx,ny,3] and is probably float or double?)

Next, scale to byte. This could be as simple as: rgb_scaled=BYTSCL(rgb_unscaled) or it might be done band by band with selected minima and maxima, and perhaps with each band going through some non-linear stretch (like histogram normalisation), etc.

Finally, if you have a hi- or truecolor display you can display this result immediately with: TV,rgb_scaled,TRUE=3 If you have an 8-bit display the you must first construct a 1-byte paletted image and corresponding colour table with COLOR_QUAN(), e.g., rgb_paletted=COLOR_QUAN(rgb_scaled,3,rlut,glut,blut,COLORS=2 20). This can then be displayed with TV,rgb_paletted & TVLCT,rlut,glut,blut.

I hope this is of some help.

Peter Mason

Sent via Deja.com http://www.deja.com/ Share what you know. Learn what you don't.