Subject: Re: Array Subscripting Puzzle
Posted by James Kuyper on Fri, 17 May 2002 18:15:37 GMT
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David Fanning wrote:

> Folks,
>
> I have a 24-bit image. You can interleave it anyway
> you like that will make the problem described below
> trackable. At the moment it is 800 by 600 by 3.
>
> I have the indices of something I want to draw on
> the image. Say they are the indices of the outlines
> of some continents. For example, like this:
>
> window, xsize=800, ysize=600
> map_set, /Cylindrical, position=[0,0,1,1]
> map_continents, /fill
> a = tvrd()
> indices = where(a GT 0)
>
> I want to make all the outline pixels yellow.
> I *could* do this:
>

> r = Reform((image[*,*,0]))
> g = Reform((image[*,*,1]))
> b = Reform((image[*,*,2]))
> r[indices] = 255
> g[indices] = 255
> b[indices] = 0
> image[*,*,0] = r
> image[*,*,1] = g
> image[*,*,2] = b
>
> That seems wasteful and inelegant. There must be
> a way to do this in one go. I'm sure it uses REBIN
> and REFORM, but I'm not sure in which order. :-(
>
> Can anyone help?

How about this:

m = a GT 0
image = image*(1-m)+[[[255*m]],[[255*m]],[[0*m]]]