
Subject: Re: convert read_bpm(file, R, G, B) to N x M x 3 array?

Posted by [David Fanning](#) on Wed, 28 Feb 2007 17:45:46 GMT

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Mike writes:

```
> If I read a color bitmap file like this:
>
>  bmp = READ_BMP(filename, R, G, B)
>
>  bmp is an N x M array with values that are indices of the
>  RGB arrays.  For example, if bmp[5,10] = 3, the color
>  triple for that pixel is R[3], G[3], B[3].  To convert this to
>  an N x M x 3 for widget_button values, I've used a brute
>  force method:
>
>  bmp = read_bmp(filename, R, G, B)
>  s = size(bmp, /structure)
>  Nx = s.dimensions[0]
>  Ny = s.dimensions[1]
>  Nc = n_elements(R)
>  bmpR = bytarr(Nx, Ny)
>  bmpG = bytarr(Nx, Ny)
>  bmpB = bytarr(Nx, Ny)
>  for c = 0, Nc-1 do begin
>    i = where(bmp eq c, count)
>    if count gt 0 then begin
>      bmpR[i] = R[c]
>      bmpG[i] = G[c]
>      bmpB[i] = B[c]
>    endif
>  endfor
>  result = [[[bmpR]], [[bmpG]], [[bmpB]]]
>
> It seems like there ought to be a more IDLy way to do
> this, but my juggling skills are failing me.  Can
> anyone suggest something that takes fewer lines of
> code and is more consistent with The IDL Way?
```

It seems to me something like this should work:

```
  bmp = read_bmp(filename, R, G, B)
  bmp24 = [[r[bmp]], [g[bmp]], [b[bmp]]]
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
