
Subject: Re: Jpeg in a .sav file
Posted by [mmiller3](#) on Thu, 13 Mar 2008 20:37:18 GMT
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>>>> > "Rick" == Rick Towler <rick.towler@nomail.noaa.gov> writes:

> The trick is encoding the image into a function. Like so:

> http://www.acoustics.washington.edu/~towler/programs/make_imageFunction.pro

Nice one Rick - I've done a similar thing for widget bitmaps.
Probably it was originally based on something I saw from you or
someone else on this newsgroup, but I was bad and did not comment
my code.

Mike

```
pro bmp_to_function, bmp_file, function_name
print, 'reading bitmap from ', bmp_file
```

```
test = query_bmp(bmp_file, info)
case info.channels of
  3: begin
    ;; 3 channel bit map, so use it as is...
    bmp = read_bmp(bmp_file)
    result = bytarr(info.dimensions[0], info.dimensions[0], 3)
    result[:,*,0] = bmp[0,*,*]
    result[:,*,1] = bmp[1,*,*]
    result[:,*,2] = bmp[2,*,*]
  end
  1: begin
    ;; single channel bit map ==> use RGB colors
    bmp = read_bmp(bmp_file, R, G, B)
    result = [[[R[bmp]]], [[G[bmp]]], [[B[bmp]]]]
  end
endcase
```

```
print, 'writing function ', function_name, ' to ', function_name+'.pro'
openw, lun, function_name+'.pro', /get_lun
printf, lun, 'function ' + function_name
printf, lun, 'bmp = bytarr(' + strtrim(info.dimensions[0],2) + ',' + strtrim(info.dimensions[1],2) + ',3)'
for x = 0, info.dimensions[0]-1 do begin
  for y = 0, info.dimensions[1]-1 do begin
    for c = 0, 2 do begin
      printf, lun, 'bmp[' + strtrim(x,2) + ',' + strtrim(y,2) + ',' + strtrim(c,2) + '] = ' +
strtrim(fix(result[x,y,c]),2)
```

```
    endfor
  endfor
endfor
printf, lun, 'return, bmp'
printf, lun, 'end'
free_lun, lun

end
```
