
Subject: Re: Saving Color Tables

Posted by [kklare](#) on Wed, 15 Sep 2004 20:57:29 GMT

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In 1995 and 1996 I added a number of tables ~62. Some are stolen from defunct Macintosh Spyglass Transform (an uncredited rip off of public domain NCSA Image), the NIH Image program with correction for 13 converted into 10 or vv, and the old MAC-OS colors. One is 10 cycles of colors with different shading and is good for contours. The routine to read these was last changed 2/2000 and given below and is not checked to be current. Replace JINIT and EXTR_FILE_NAME by your own path parser. BTW for true color, I did a 26 cycles of colors but have never used it.

```
;+
;NAME: CT_READ
;PURPOSE: read Macintosh color tables for use in IDL
; reads 970 byte Spyglass/NIH Image
; and 2056 byte ResEdit resource saved using HexEdit
;CATEGORY: Colors
;CALL:
;INPUT:
; file name of file to read, default is a Pickfile
;OUTPUTS:
; R, G, B 256-byte lists of color components
;SIDE EFFECTS:
; opens file on unit 1
; overwrites current window
; changes color table
; may modify system colors
;HISTORY:
; KAK 960913 New
;-
PRO CT_READ, file, r, g, b

IF NOT KEYWORD_SET(path) THEN path = XPICKFILE(/READ, /MUST_EXIST)
IF NOT KEYWORD_SET(path) THEN RETURN
JINIT
file = EXTR_FILE_NAME(path)
PRINT, 'For color table name "'+file+'"'
ON_IOERROR, err
CLOSE, 1
OPENR, 1, path
stat = FSTAT(1)
CASE stat.size OF
970: BEGIN
  x = BYTARR(202) & READU, 1, x
  x = BYTARR(3,256) & READU, 1, x
```

```

ENDCASE
2056: BEGIN
  x = BYTARR(8) & READU, 1, x
  x = INTARR(4,256) & READU, 1, x
  x = BYTE(ISHFT(x(1:3,*),-8))
ENDCASE
ELSE: BEGIN
  MESSAGE, /INFO, 'Unknown file size '+STRTRIM(stat.size)
  RETURN
ENDCASE
ENDCASE
CLOSE, 1
r = REFORM(x(0,*))
g = REFORM(x(1,*))
b = REFORM(x(2,*))
TVLCT, r, g, b
ERASE
PLOT, r, YRANGE=[0,255], TITLE=file & OPLOT, g & OPLOT, b
TV, BINDGEN(256)#REPLICATE(1b,20)
PRINT, ' 0:', r(0), g(0), b(0)
PRINT, '255:', r(255), g(255), b(255)
PRINT, 'Enter id (42-255) of local file=colors1.tlb'
PRINT, 'To cancel enter 0.'
PRINT, 'To assign a new number enter 255.'
id = 0B
READ, id
IF id LT 42B THEN PRINT, 'Cannot change standard colors'$
ELSE BEGIN
  MODIFYCT, id, file, r, g, b, FILE='colors1.tlb'
  PRINT, id, ' entry modified'
ENDELSE

RETURN
err:
HELP, /STR, stat
MESSAGE, /INFO, !err_string
CLOSE, 1
RETURN
END

```
