

File created: 9-Jan-87 16:47:16 {ERIS}<LISPCORE>LIBRARY>SKETCHCOLOR.;2

changes to: (VARS BLACKSHADE16 DARKGRAY16 MEDIUMGRAY16 LIGHTGRAY16 WHITESHADE16 REDTEXTURE GREENTEXTURE
BLUETEXTURE SKETCHCOLORCOMS)

previous date: 29-Oct-85 14:44:30 {ERIS}<LISPCORE>LIBRARY>SKETCHCOLOR.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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```
(RPAQQ SKETCHCOLORCOMS ((FNS COLORETEXTURETEST LEVELTEXTURE PRIMARYTEXTURE)
  (VARS (SKETCHINCOLORFLG T))
  (FILES COLOR STYLESHEET)
  (ADVISE \FILLCIRCLE.DISPLAY \POLYSHADE.DISPLAY)))
```

(DEFINEQ

(COLORETEXTURETEST

[LAMBDA (W)

(* rrb "22-Aug-85 10:16")
(* puts up a test pattern of primary colors.)

```
(PROG ((LFT 90))
  (CLEARW W)
  (for BLUELEVEL from 94 by 50 to 300
    do (printout W "BLUE: " BLUELEVEL " " 'RED)
      (DSPYPOSITION (DIFFERENCE (DSPYPOSITION NIL W)
        50)
        W)
      (DSPXPOSITION 0 W)
      (for GREENLEVEL from 94 by 50 to 300 do (printout W "Green: " GREENLEVEL)
        [for REDLEVEL from 94 by 50 to 300
          do (BITBLT NIL 0 0 W (DIFFERENCE REDLEVEL 20)
            (DSPYPOSITION NIL W)
            45 45 'TEXTURE 'REPLACE
            (TEXTUREOFCOLOR (LIST REDLEVEL GREENLEVEL
              BLUELEVEL)
              (DSPYPOSITION (DIFFERENCE (DSPYPOSITION NIL W)
                50)
                W)
              (DSPXPOSITION 0 W]))
```

(LEVELTEXTURE

[LAMBDA (LEVEL)

(* rrb "20-Aug-85 16:42")

(* returns a 16x16 texture which is merged so that only light bits on both go to light with a primary color pattern to get a level primary pattern.)

```
(COND
  ((ILESSP LEVEL 100)
    BLACKSHADE16)
  ((ILESSP LEVEL 150)
    DARKGRAY16)
  ((ILESSP LEVEL 200)
    MEDIUMGRAY16)
  ((ILESSP LEVEL 245)
    LIGHTGRAY16)
  (T WHITESHADE16))
```

(PRIMARYTEXTURE

[LAMBDA (PRIMARY LEVEL)

(* rrb "20-Aug-85 16:42")
(* returns the 16x16 texture for a primary color level.)

```
(PROG [(TEXTURE (BITMAPCOPY (SELECTQ PRIMARY
  (RED REDTEXTURE)
  (BLUE BLUETEXTURE)
  (GREEN GREENTEXTURE)
  (\ILLEGAL.ARG PRIMARY]
  (BITBLT (LEVELTEXTURE LEVEL)
    0 0 TEXTURE 0 0 16 16 'INPUT 'ERASE)
  (RETURN TEXTURE]))
```

)

(RPAQQ SKETCHINCOLORFLG T)

(FILESLOAD COLOR STYLESHEET)

```
(PUTPROPS \FILLCIRCLE.DISPLAY READVICE [NIL (BEFORE NIL (COND ((LISTP TEXTURE)
  (COND ((TEXTUREP (CAR TEXTURE))
    (SETQ TEXTURE (CAR TEXTURE)))
```

```
{MEDLEY}<lispusers>SKETCHCOLOR.;1  (\FILLCIRCLE.DISPLAY cont.)
```

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```
(T (SETQ TEXTURE (TEXTUREOFCOLOR
                  (CADR TEXTURE]))

(PUTPROPS \POLYSHADE.DISPLAY READVICE [NIL (BEFORE NIL (COND ((LISTP FILL.SHADE)
                                                             (COND ((TEXTUREP (CAR FILL.SHADE))
                                                                    (SETQ FILL.SHADE (CAR FILL.SHADE)))
                                                             (T (SETQ FILL.SHADE (TEXTUREOFCOLOR
                                                                    (CADR FILL.SHADE)))))

(READWISE \FILLCIRCLE.DISPLAY \POLYSHADE.DISPLAY)

(PUTPROPS SKETCHCOLOR COPYRIGHT ("Xerox Corporation" 1985 1987))
```

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