```
14-Jun-90 21:02:08 {DSK}<usr>local>lde>lispcore>internal>library>COLOROBJ.;2
 File created:
  changes to:
                (FNS COLOROBJ.IMAGEBOXFN COLOROBJ.PUTFN COLOROBJ.COPYFN COLOROBJ.WHENOPERATEDONFN COLOROBJ.CREATE
                     COLOROBJ.DISPLAYFN COLOROBJ.GETFN)
                (VARS COLOROBJCOMS)
previous date:
                4-Feb-87 23:58:42 {DSK}<usr>local>lde>lispcore>internal>library>COLOROBJ.;1
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                 XCCS
"Copyright (c) 1985, 1986, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ COLOROBJCOMS
        [(FNS * COLOROBJFNS)
         (FILES COLOR)
         (INITVARS (COLOROBJ.DEFAULT.COLOR 'RED))
(VARS (COLOROBJ.FNS '(COLOROBJ.CREATE COLOROBJ.DISPLAYFN COLOROBJ.GETFN COLOROBJ.IMAGEBOXFN
                                        COLOROBJ.PUTFN COLOROBJ.COPYFN COLOROBJ.WHENOPERATEDONFN))
                (COLOROBJ.IMAGEFNS (IMAGEFNSCREATE (FUNCTION COLOROBJ.DISPLAYFN)
                                              (FUNCTION COLOROBJ.IMAGEBOXFN)
                                              (FUNCTION COLOROBJ.PUTFN)
                                              (FUNCTION COLOROBJ.GETFN)
                                              (FUNCTION COLOROBJ.COPYFN)
                                              (FUNCTION COLOROBJ.BUTTONEVENTFN)
                                              (FUNCTION NILL)
                                              (FUNCTION NILL)
                                              (FUNCTION NILL)
                                              (FUNCTION NILL)
                                              (FUNCTION NILL)
                                              (FUNCTION COLOROBJ. WHENOPERATEDONFN)
                                              (FUNCTION NILL])
(RPAQQ COLOROBJFNS (COLOROBJ.CREATE COLOROBJ.DISPLAYFN COLOROBJ.GETFN COLOROBJ.IMAGEBOXFN COLOROBJ.PUTFN
                               COLOROBJ.COPYFN COLOROBJ.WHENOPERATEDONFN))
(DEFINEQ
(COLOROBJ.CREATE
  [LAMBDA (COLOR)
                                                                          (* gbn "13-Jan-86 16:00")
              create a color object, color is anything acceptable to dspcolor
           (atoms on colornamés, rgb triples, indices))
     (LET ((COLOROBJ (IMAGEOBJCREATE NIL COLOROBJ.IMAGEFNS)))
          (IMAGEOBJPROP COLOROBJ 'COLOR (OR COLOR COLOROBJ.DEFAULT.COLOR))
          COLOROBJ1)
(COLOROBJ.DISPLAYFN
                                                                          (* gbn "13-Jan-86 17:51")
   LAMBDA (COLOROBJ IMAGE.STREAM)
            * On the display a color object shows up as the color name, otherwise it has no image.
           On any stream it has the sideeffect of changing the foreground color)
     (LET* ((COLOR (IMAGEOBJPROP COLOROBJ 'COLOR))
             (X (DSPXPOSITION NIL IMAGE.STREAM))
             (Y (DSPYPOSITION NIL IMAGE.STREAM)))
            (DSPCOLOR COLOR IMAGE.STREAM)
           (SELECTQ (IMAGESTREAMTYPE IMAGE.STREAM)
(DISPLAY (DSPFONT '(WEIGHT BOLD)
                                  IMAGE.STREAM)
                           (LET* ((STRING (IMAGEOBJPROP COLOROBJ 'COLOR))
                                   (STRINGREGION (STRINGREGION STRING IMAGE.STREAM))
                                   (LEFT (ADD1 (fetch (REGION LEFT) of STRINGREGION)))
                                   (BOTTOM (fetch (REGION BOTTOM) of STRINGREGION))
                                   (REGION (create REGION
                                                    LEFT _ LEFT
BOTTOM _ BOTTOM
HEIGHT _ (IPLUS (fetch (REGION HEIGHT) of STRINGREGION)
                                                    WIDTH _ (IPLUS (fetch (REGION WIDTH) of STRINGREGION)
                                   (TOP (fetch (REGION TOP) of REGION))
                                  (RIGHT (fetch (REGION RIGHT) of REGION)))
(IMAGEOBJPROP COLOROBJ 'REGION REGION)
                                  (CENTERPRINTINREGION STRING REGION IMAGE.STREAM)
                                  (DRAWLINE LEFT BOTTOM LEFT (SUB1 TOP)
                                  'INVERT IMAGE.STREAM)
(DRAWLINE LEFT TOP (SUB1 RIGHT)
                                         TOP 1 'INVERT IMAGE.STREAM)
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```
(DRAWLINE RIGHT TOP RIGHT (ADD1 BOTTOM)
                                      'INVERT IMAGE.STREAM)
                               (DRAWLINE RIGHT BOTTOM (ADD1 LEFT)
                                     BOTTOM 1 'INVERT IMAGE.STREAM)))
               (NILL])
(COLOROBJ.GETFN
  [LAMBDA (INPUT.STREAM TEXTSTREAM)
                                                                     gbn "13-Jan-86 15:42")
                                                                     reads the COLOR and creates an COLOROBJ)
    (COLOROBJ.CREATE (READ INPUT.STREAM])
(COLOROBJ.IMAGEBOXFN
  [LAMBDA (COLOROBJ IMAGE.STREAM CURRENT.X RIGHT.MARGIN)
                                                                   (* gbn "13-Jan-86 16:01")
          (* * Returns a null imagebox, except to the display, where it returns the size of the box)
    (LET NIL (SELECTO (IMAGESTREAMTYPE IMAGE.STREAM)
                  (DISPLAY (create IMAGEBOX
                                  XSIZE _ (IPLUS (STRINGWIDTH (IMAGEOBJPROP COLOROBJ 'COLOR)
                                                          (DSPFONT NIL IMAGE.STREAM))
                                  YSIZE _ (IPLUS (FONTHEIGHT (DSPFONT NIL IMAGE.STREAM))
                                                  4)
                                  YDESC _ 4
                                  XKERN _ 0))
                  (create IMAGEBOX
                         XSIZE _
                         YSIZE _ 0
                         YDESC _ 0
                         XKERN _ 0])
(COLOROBJ.PUTFN
 [LAMBDA (COLOROBJ OUTPUT.STREAM)
                                                                     gbn "13-Jan-86 15:57")
                                                                     prints only the color to the file)
    (PRINT (IMAGEOBJPROP COLOROBJ 'COLOR)
           OUTPUT.STREAM])
(COLOROBJ.COPYFN
          (IMAGEOBJ FROMSTREAM TOSTREAM)
                                                                   (* gbn "13-Jan-86 15:58")
    (COLOROBJ.CREATE (IMAGEOBJPROP IMAGEOBJ 'COLOR)
           TOSTREAM])
(COLOROBJ.WHENOPERATEDONFN
                                                                     gbn " 6-Jan-85 13:23")
  [LAMBDA (A B C C)
                                                                   (YMMUĞ *
   1)
(FILESLOAD COLOR)
(RPAQ? COLOROBJ.DEFAULT.COLOR 'RED)
(RPAQQ COLOROBJFNS (COLOROBJ.CREATE COLOROBJ.DISPLAYFN COLOROBJ.GETFN COLOROBJ.IMAGEBOXFN COLOROBJ.PUTFN
                            COLOROBJ.COPYFN COLOROBJ.WHENOPERATEDONFN))
(RPAQ COLOROBJ.IMAGEFNS
      (IMAGEFNSCREATE (FUNCTION COLOROBJ.DISPLAYFN)
             (FUNCTION COLOROBJ.IMAGEBOXFN)
             (FUNCTION COLOROBJ.PUTFN)
             (FUNCTION COLOROBJ.GETFN)
             (FUNCTION COLOROBJ.COPYFN)
             (FUNCTION COLOROBJ.BUTTONEVENTFN)
             (FUNCTION NILL)
             (FUNCTION NILL)
             (FUNCTION NILL)
             (FUNCTION NILL)
             (FUNCTION NILL)
             (FUNCTION COLOROBJ. WHENOPERATEDONFN)
             (FUNCTION NILL)))
(PUTPROPS COLOROBJ COPYRIGHT ("Venue & Xerox Corporation" 1985 1986 1987 1990))
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	FUNCTION INDEX	
COLOROBJ.COPYFN 2 COLOROBJ.CREATE 1 COLOROBJ.DISPLAYFN 1	COLOROBJ.GETFN	COLOROBJ.WHENOPERATEDONFN2
	VARIABLE INDEX	
COLOROBJ.DEFAULT.COLOR2	COLOROBJ.IMAGEFNS2	COLOROBJFNS