```
24-Aug-2022 07:58:48 {DSK}<home>larry>medley>lispusers>READBRUSH.;2
 File created:
 changes to:
               (FNS IDLE.GLIDING.BOX)
previous date:
               6-Nov-92 09:25:48 {DSK}<home>larry>medley>lispusers>READBRUSH.;1
 Read Table:
              INTERLISP
   Package:
              INTERLISP
      Format:
                XCCS
"; Copyright (c) 1984-1986, 1988, 1992 by Xerox Corporation.
(RPAQQ READBRUSHCOMS
       ((FNS CHOOSE.IDLE.BITMAP READBRUSHFILE READBRUSH READROOTPICTURE IDLE.GLIDING.BOX)
        (FILES BITMAPENS)
        [ADDVARS (IDLE.FUNCTIONS ("Gliding box" 'IDLE.GLIDING.BOX "moves images around on the screen"
                                          (SUBITEMS ("Pick image from MesaHacks" (PROGN (CHOOSE.IDLE.BITMAP)
        (INITVARS (IDLE.BITMAP)
                (BRUSHMENU)
                (ROOTPICTUREMENU)
                (BRUSHDIRECTORY "{goofy:osbu north:xerox}<hacks>data>brushes>"))))
(DEFINEO
(CHOOSE.IDLE.BITMAP
  [LAMBDA NIL
                                                                    ; Edited 23-Jun-88 01:51 by masinter
    (PROG NIL
          (ALLOW.BUTTON.EVENTS)
          (SETQ IDLE.BOUNCING.BOX (CAR (READBRUSHFILE (OR [MENU (OR BRUSHMENU
                                                                          (create MENU
                                                                                 ITEMS
                                                                                  (for FILE
                                                                                    infiles (DIRECTORY.FILL.PATTERN
                                                                                            BRUSHDIRECTORY "brush" ""
                                                                                    collect (NAMEFIELD FILE]
                                                               (RETURN])
(READBRUSHFILE
                                                                    (* lmm "23-Jul-86 21:26")
  [LAMBDA (FILE)
    (OR (AND (LITATOM FILE)
              (GET FILE 'BRUSH))
        (PROG ((STR (OPENSTREAM (PACKFILENAME.STRING 'BODY FILE 'DIRECTORY BRUSHDIRECTORY 'EXTENSION
                                         'BRUSH)
                            'INPUT
                            'OLD))
               M W H BM MASK REG)
               (BIN STR)
               (SETQ M (SELECTQ (BIN STR)
                            (1 T)
                            (0 NIL)
                           NIL))
               (SETQ W (BIN16 STR))
               (SETQ H (BIN16 STR))
               (RPTQ 10 (BIN STR))
               (SETQ BM (READBINARYBITMAP W H STR))
               (if M
                   then (SETQ MASK (READBINARYBITMAP W H STR)))
               (CLOSEF STR)
               (SETQ BM (CONS BM MASK))
                  (LITATOM FILE)
                   THEN (PUT FILE 'BRUSH BM))
               (RETURN BM])
(READBRUSH
                                                                    (* lmm " 4-Aug-85 07:31")
  [LAMBDA (FILE)
    (PROG ((BMS (READBRUSHFILE FILE))
           WIN REG)
           (if (CDR BMS)
              then (SETQ WIN (ICONW (CAR BMS)
                                     (CDR BMS)))
            else (MOVEW (SETQ WIN (CREATEWFROMIMAGE (CAR BMS)))
                        [fetch (REGION LEFT) of (SETQ REG (GETBOXREGION (WINDOWPROP WIN 'WIDTH)
                                                                  (WINDOWPROP WIN 'HEIGHT]
                        (fetch (REGION BOTTOM) of REG))
                 (OPENW WIN))
           (WINDOWPROP WIN 'BUTTONEVENTFN 'MOVEW)
           (RETURN WIN])
```

## {MEDLEY} < lispusers > READBRUSH.; 1 (READROOTPICTURE AMBDA (FILE) (\* edited%: "17-May-85 19:21") (CHANGEBACKGROUND (READPRESS (PACKFILENAME.STRING 'BODY FILE 'DIRECTORY "{GOOFY:OSBU [LAMBDA (FILE) NORTH} < HACKS > DATA > ROOTPICTURES > " 'EXTENSION 'PRESS]) (IDLE.GLIDING.BOX [LAMBDA (WIN BITMAPS WAIT WAITSEQ MAXD) ; Edited 24-Aug-2022 07:57 by larry ; Edited 23-Jun-88 01:53 by masinter (OR BITMAPS (SETQ BITMAPS IDLE.BOUNCING.BOX)) [OR WIN (SETQ WIN (OR POLYGONSWINDOW (SETQ POLYGONSWINDOW (CREATEW] (OR MAXD (SETQ MAXD 4)) (OR WAIT (SETQ WAIT 50)) [SETQ BITMAPS (for X inside BITMAPS collect (if (LITATOM X) then [OR (GETPROP X 'BITMAP) (PUTPROP X 'BITMAP (OR (CAR (READBRUSHFILE X)) (BITMAPCREATE 10 101 else (IDLE.BITMAP NIL X] (LET ((W (for X in BITMAPS largest (BITMAPWIDTH X) finally (RETURN \$\$EXTREME))) (H (for X in BITMAPS largest (BITMAPHEIGHT X) finally (RETURN \$\$EXTREME))) (REG (DSPCLIPPINGREGION NIL WIN))) (LET ((XBM (BITMAPCREATE (PLUS MAXD MAXD W) (PLUS MAXD MAXD H))) (MAXX (MAX (DIFFERENCE (**fetch** WIDTH REG) (ADD1 W)) 10)) (MAXY (MAX (DIFFERENCE (fetch HEIGHT REG) (ADD1 W)) 10)) (MAXDD (FIX (SQRT MAXD))) X Y (CNT 0) DX DY STEPS NEWX NEWY REALX REALY ORIGX ORIGY TOY TOX THISBITMAP) (SETQ X (RAND 1 MAXX)) (SETQ Y (RAND 1 MAXY)) (BITBLT (SETQ THISBITMAP (CAR BITMAPS)) NIL NIL WIN X Y NIL NIL NIL 'INVERT) (while ${\tt T}$ do [COND ((ILEQ CNT 0) (SETQ ORIGX X) (SETQ ORIGY Y) (SETQ TOX (RAND 1 (SUB1 MAXX))) (SETQ TOY (RAND 1 (SUB1 MAXY))) (SETQ CNT (SETQ STEPS (QUOTIENT (PLUS (MAX (ABS (DIFFERENCE TOX X)) (ABS (DIFFERENCE TOY Y))) MAXD -1)MAXD))) (QUOTIENT (PLUS (ABS (DIFFERENCE TOX X)) STEPS -1) STEPS)) (T (SETQ CNT (SUB1 CNT] (SETQ NEWX (PLUS (QUOTIENT (TIMES CNT (DIFFERENCE ORIGX TOX)) STEPS) TOX)) $(\mathbf{if}$ (GREATERP (ABS (SETQ DX (DIFFERENCE NEWX X))) MAXD) then (SHOULDNT)) (SETQ NEWY (PLUS (QUOTIENT (TIMES CNT (DIFFERENCE ORIGY TOY)) STEPS) TOY)) (if (GREATERP (ABS (SETQ DY (DIFFERENCE NEWY Y))) MAXD) then (SHOULDNT)) (BITBLT NIL NIL NIL XBM NIL NIL NIL NIL 'TEXTURE 'ERASE BLACKSHADE) (BITBLT THISBITMAP NIL NIL XBM MAXD MAXD NIL NIL NIL 'INVERT) (BITBLT THISBITMAP NIL NIL XBM (PLUS MAXD DX) (PLUS MAXD DY) NIL NIL NIL 'INVERT) (BITBLT XBM NIL NIL WIN (DIFFERENCE X MAXD) (DIFFERENCE Y MAXD) NIL NIL NIL 'INVERT) (add X DX) (add Y DY) (DISMISS WAIT]) (FILESLOAD BITMAPFNS)

(ADDTOVAR IDLE.FUNCTIONS ["Gliding box" 'IDLE.GLIDING.BOX "moves images around on the screen" (SUBITEMS ("Pick image from MesaHacks" (PROGN (CHOOSE.IDLE.BITMAP)

'IDLE.GLIDING.BOX]) (RPAQ? IDLE.BITMAP )

(RPAO? BRUSHMENU )

 $({\tt RPAQ?} \ \ \textbf{ROOTPICTUREMENU} \ )$ 

(RPAQ? BRUSHDIRECTORY "{goofy:osbu north:xerox}<hacks>data>brushes>")

(PUTPROPS READBRUSH COPYRIGHT ("Xerox Corporation" 1984 1985 1986 1988 1992))

## {MEDLEY}lispusers>READBRUSH.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:45 --

FUNCTION INDEX				
CHOOSE.IDLE.BITMAP 1	IDLE.GLIDING.BOX2	READBRUSH1	READBRUSHFILE1	READROOTPICTURE2
VARIABLE INDEX				
BRUSHDIRECTORY3	BRUSHMENU2	IDLE.BITMAP2	IDLE.FUNCTIONS2	ROOTPICTUREMENU3