```
27-Mar-2024 23:42:37 {WMEDLEY}lispusers>DOC-OBJECTS.;36
 File created:
       edit by:
  changes to:
                  (FNS_DOCOBJ-INCLUDE-EDIT-WINDOWP)
previous date:
                 19-Mar-2024 19:36:25 {WMEDLEY}<lispusers>DOC-OBJECTS.;35
 Read Table:
                 INTERLISP
    Package:
                 INTERLISP
       Format:
                   XCCS
(RPAQQ DOC-OBJECTSCOMS
;;; This TEdit subsystem implements an extensible facility originally intended to provide bibliography and citation capabilities. The TEdit function ;;; GET.OBJ.FROM.USER, the one triggered by typing ^O, calls the function PROMPTFOREVALED which is redefined by this subsystem to be ;;; equivalent to the function DocObj-Acquire-Object. This function inserts IMAGEOBJects into the current TEdit, and is driven by the variables
;;; DocObjectsMenu and DocObjectsMenuCommands (analogous to BackgroundMenu and BackgroundMenuCommands). Each menu entry contains a ;;; form that, when EVAL'd, creates and returns a particular kind of IMAGEOBJ. Note that this form is EVAL'd under the function DocObj-Acquire-Object, ;;; which runs under the function GET.OBJ.FROM.USER, which gets TEXTSTREAM and TEXTOBJ as arguments. They can be (and are) used freely to
;;; record state or other desired info. The image objects supplied by this subsystem are 'Eval'd Form' (i.e., the original béhavior of ^O), 'Screen Snap
;;; (equivalent to right-buttoning in the background while holding the SHIFT key down), etc.
          (FILES (SYSLOAD)
                   TEDIT TEDIT IMAGEOBJ)
          (DECLARE%: EVAL@COMPILE DONTCOPY (FILES TEDIT-EXPORTS.ALL))
          (VARS (DocObjectsMenu NIL)
                  (DocObjectsConfirmEditMenu NIL))
          [INITVARS (DocObjectsMenuCommands NIL)
                   (DocObjectsMenuFont (FONTCREATE '(MODERN 12 BOLD]
                 ;; The hook into GET.OBJ.FROM.USER
                  (FNS DOCOBJ-ACQUIRE-OBJECT DOCOBJ-INIT DOCOBJ-TEDIT-MENU-ENTRY DOCOBJ-GET-LOOKS
                        DOCOBJ-REGISTER-OBJECT DOCOBJ-STRING-IMAGEBOX DOCOBJ-WAIT-MOUSE DOCOBJ-INVOKE-IMAGEOBJFN
                        DOCOBJ-BEFOREHARDCOPYFN DOCOBJ-AFTERHARDCOPYFN))
          [COMS
                 ;; Eval'd Form
                  (FNS DOCOBJ-ACQUIRE-EVALED-OBJECT)
                  (ADDVARS (DocObjectsMenuCommands ("Eval'd Form" (DOCOBJ-ACQUIRE-EVALED-OBJECT)

"Insert the value of a form to be typed in"]
          [COMS] :; Screen Snap
                  (FNS DOCOBJ-ACQUIRE-SNAPPED-OBJECT)
                  (ADDVARS (DocObjectsMenuCommands ("Screen Snap" (DOCOBJ-ACQUIRE-SNAPPED-OBJECT)
                                                                    "Insert a snap from the screen"]
                 :: Time Stamp
                  (DECLARE%: DONTCOPY (RECORDS DOCOBJ-TIMESTAMP))
                  (FILES (SYSLOAD)
                          DATEFORMAT-EDITOR)
                  (FNS DOCOBJ-EDIT-TIMESTAMP DOCOBJ-MAKE-TIMESTAMP DOCOBJ-MAKE-TIMESTAMP-IMAGEFNS
                        DOCOBJ-TIMESTAMP-BUTTONEVENTINFN DOCOBJ-TIMESTAMP-COPYFN DOCOBJ-TIMESTAMP-DISPLAYFN
                        DOCOBJ-TIMESTAMP-GETFN DOCOBJ-TIMESTAMP-IMAGEBOXFN DOCOBJ-TIMESTAMP-PREPRINTFN
                        DOCOBJ-TIMESTAMP-PUTFN DOCOBJ-TIMESTAMP-TO-STRING)
                  (INITVARS (DocObjectsTimeStampFormat)
                           (DOCOBJ-TIMESTAMP-IMAGEFNS (DOCOBJ-MAKE-TIMESTAMP-IMAGEFNS)))
                  (ADDVARS (DocObjectsMenuCommands ("Time Stamp" (DOCOBJ-MAKE-TIMESTAMP)
                                                                    "Date & time this document is PUT"]
          [COMS
                 :; File Stamp
                  (FNS DOCOBJ-MAKE-FILESTAMP DOCOBJ-MAKE-FILESTAMP-IMAGEFNS DOCOBJ-FILESTAMP-COPYFN
                        DOCOBJ-FILESTAMP-DISPLAYFN DOCOBJ-FILESTAMP-GETFN DOCOBJ-FILESTAMP-IMAGEBOXFN
                        DOCOBJ-FILESTAMP-GET-FULLNAME DOCOBJ-FILESTAMP-NEW-FULLNAME DOCOBJ-FILESTAMP-PREPRINTFN
                        DOCOBJ-FILESTAMP-PUTFN)
                  (INITVARS (DOCOBJ-FILESTAMP-IMAGEFNS (DOCOBJ-MAKE-FILESTAMP-IMAGEFNS)))
                  (ADDVARS (DocObjectsMenuCommands ("File Stamp" (DOCOBJ-MAKE-FILESTAMP)

"Name of file to which this document was last PUT."]
          (COMS
                 ;; Horizontal Rule
                  (FILES (SYSLOAD)
                          HRULE READNUMBER)
                  (FNS DOCOBJ-MAKE-HRULE DOCOBJ-EDIT-HRULE DOCOBJ-HRULE-INIT DOCOBJ-HRULE-GET-WIDTH
                        DOCOBJ-HRULE-BUTTONEVENTINFN)
                  (VARS (DOCOBJ-HRULE-RULE-PAD)
                         (DOCOBJ-HRULE-BLANK-PAD))
                  (ADDVARS (DocObjectsMenuCommands ("Horizontal Rule" (DOCOBJ-MAKE-HRULE)
                                                                    "One or more horizontal rules")))
                  (P (DOCOBJ-HRULE-INIT)))
          [COMS
                 :: INCLUDE
                  (DECLARE%: EVAL@COMPILE DONTCOPY (RECORDS INCLOBJ))
                  (INITVARS (DOCOBJ-INCLUDE-SAFE T))
                  (FNS DOCOBJ-MAKE-INCLUDE DOCOBJ-MAKE-INCLUDE-IMAGEFNS DOCOBJ-INCLUDE-CREATE-OBJ
                        DOCOBJ-INCLUDE-EDIT DOCOBJ-INCLUDE-EDIT-WINDOWP DOCOBJ-INCLUDE-RESET-OBJ)
                  (FNS DOCOBJ-INCLUDE-BEFOREHARDCOPYFN DOCOBJ-INCLUDE-CLEANUPFN DOCOBJ-INCLUDE-BUTTONEVENTINFN
```

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DOCOBJ-INCLUDE-COPYFN DOCOBJ-INCLUDE-DISPLAYFN DOCOBJ-INCLUDE-GETFN DOCOBJ-INCLUDE-IMAGEBOXFN
                           DOCOBJ-INCLUDE-PREPRINTFN DOCOBJ-INCLUDE-PUTFN)
                    (INITVARS (DOCOBJ-INCLUDE-EDITMENU)
                              (DOCOBJ-INCLUDE-IMAGEFNS (DOCOBJ-MAKE-INCLUDE-IMAGEFNS))))
                    (ADDVARS (DocObjectsMenuCommands ("Include" (DOCOBJ-MAKE-INCLUDE)
                                                                             "Include another document right here when hardcopying"]
           (DECLARE%: DONTEVAL@LOAD DOCOPY (P (DOCOBJ-INIT)))
           (DECLARE%: EVAL@LOAD DONTCOPY (COMS (PROP FILETYPE DOC-OBJECTS)
                                                               (PROP MAKEFILE-ENVIRONMENT DOC-OBJECTS])
;;; This TEdit subsystem implements an extensible facility originally intended to provide bibliography and citation capabilities. The TEdit function ;;; GET.OBJ.FROM.USER, the one triggered by typing ^O, calls the function PROMPTFOREVALED which is redefined by this subsystem to be ;;; equivalent to the function DocObj-Acquire-Object. This function inserts IMAGEOBJects into the current TEdit, and is driven by the variables
  Education to the function DocobjectsMenuCommands (analogous to BackgroundMenu and BackgroundMenuCommands). Each menu entry contains a form that, when EVAL'd, creates and returns a particular kind of IMAGEOBJ. Note that this form is EVAL'd under the function DocObj-Acquire-Object, which runs under the function GET.OBJ.FROM.USER, which gets TEXTSTREAM and TEXTOBJ as arguments. They can be (and are) used freely to record state or other desired info. The image objects supplied by this subsystem are 'Eval'd Form' (i.e., the original behavior of ^O), 'Screen Snap'
;;; (equivalent to right-buttoning in the background while holding the SHIFT key down), etc.
(FILESLOAD (SYSLOAD)
          TEDIT TEDIT IMAGEOBJ)
(DECLARE%: EVAL@COMPILE DONTCOPY
(FILESLOAD TEDIT-EXPORTS.ALL)
(RPAQQ DocObjectsMenu NIL)
(RPAQQ DocObjectsConfirmEditMenu NIL)
(RPAQ? DocObjectsMenuCommands NIL)
(RPAQ? DocObjectsMenuFont (FONTCREATE ' (MODERN 12 BOLD)))
;; The hook into GET.OBJ.FROM.USER
(DEFINEO
(DOCOBJ-ACQUIRE-OBJECT
                                                                                             : Edited 22-Jun-2023 14:14 by rmk
   [LAMBDA NIL
                                                                                             ; Edited 15-Oct-87 16:27 by Koomen
  This function is invoked by TEdit's GET.OBJ.FROM.USER (cf. the Library file IMAGEOBJ) after (CHANGENAME (QUOTE GET.OBJ.FROM.USER)
;;; (QUOTE PROMPTFOREVALED) (QUOTE DOCOBJ-ACQÙIRE-OBJECT))
;;; When adding more items to the DocObjectsMenuCommands, do (SETQ DocObjectsMenu)
      (DECLARE (GLOBALVARS DocObjectsMenu DocObjectsMenuCommands DocObjectsMenuFont))
      (CL:UNLESS (type? MENU DocObjectsMenu)
           (SETQ DocObjectsMenu (create MENU
                                                   TITLE
                                                               "Select object type: "
                                                   CENTERFLG _ T
                                                    ITEMS _ DocObjectsMenuCommands
                                                   MENUFONT _ DocObjectsMenuFont)))
      (MENU DocObjectsMenu])
(DOCOBJ-INIT
                                                                                             ; Edited 8-Oct-87 21:32 by Koomen
  This function changes the behavior of standard TEdit such that 'O will invoke the DocObjects system; an entry to invoke the DocObjects system is
;;; also added to TEdit's middle button menu.
      (DECLARE (GLOBALVARS TEDIT.DEFAULT.MENU))
      (CHANGENAME 'GET.OBJ.FROM.USER 'PROMPTFOREVALED 'DOCOBJ-ACQUIRE-OBJECT)
      (TEDIT.ADD.MENUITEM TEDIT.DEFAULT.MENU '(Object (FUNCTION DOCOBJ-TEDIT-MENU-ENTRY)
                                                                         "Insert a Document Object"])
(DOCOBJ-TEDIT-MENU-ENTRY
                                                                                             ; Edited 8-Oct-87 21:31 by Koomen
   [LAMBDA (TEXTSTREAM)
;;; This is the entry point into the DocObjects system from TEdit's middle button menu. GET.OBJ.FROM.USER used to call PROMPTFOREVALED but ;;; DocObjects changes this into a call to DOCOBJ-ACQUIRE-OBJECT.
      (GET.OBJ.FROM.USER TEXTSTREAM (TEXTOBJ TEXTSTREAM])
(DOCOBJ-GET-LOOKS
                                                                                             ; Edited 19-Mar-2024 19:36 by rmk
   [LAMBDA (TEXTOBJ CH#ORCHARLOOKS)
                                                                                             ; Edited 29-Oct-2022 21:30 by rmk
(* Koomen " 4-Feb-87 23:37")
;;; Adapted from {ERIS}<TEDIT>TEDITLOOKS.;30 dated '15-Oct-85 16:51:10' to return looks itself, rather than a proplist.
                                                                                             (* jds "10-Jul-85 16:02")
```

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; Return a PLIST of character looks
     (PROG ((TEXTOBJ (TEXTOBJ TEXTOBJ))
              LOOKS FONT NLOOKS)
                 ((type? CHARLOOKS CH#ORCHARLOOKS)
                                                                                   ; He handed us a CHARLOOKS. Unparse it for him.
                  (SETQ LOOKS CH#ORCHARLOOKS))
                 ((ZEROP (FGETTOBJ TEXTOBJ TEXTLEN))
                                                                                   ; There's no text in the document. Use the extant caret looks.
                  (SETQ LOOKS (FGETTOBJ TEXTOBJ CARETLOOKS)))
                 [(FIXP CH#ORCHARLOOKS)
                                                                                   ; He gave us a CH# to get the looks of. Grab it.
                  (SETQ LOOKS (PLOOKS (\TEDIT.CHTOPC (IMIN (FGETTOBJ TEXTOBJ TEXTLEN)
                                                                       CH#ORCHARLOOKS)
                                                     TEXTOBJ]
                  (type? SELECTION CH#ORCHARLOOKS) ; Get the looks of the selected text (SETQ LOOKS (PLOOKS (\TEDIT.CHTOPC (IMIN (FGETTOBJ TEXTOBJ TEXTLEN) (GETSEL CH#ORCHARLOOKS CH#))
                 [(type? SELECTION CH#ORCHARLOOKS)
                                                     TEXTOBJ1
                  (NULL CH#ORCHARLOOKS) ; Get the looks of the selected text (SETQ LOOKS (PLOOKS (\TEDIT.CHTOPC (IMIN (FGETTOBJ TEXTOBJ TEXTLEN) (GETSEL (FGETTOBJ TEXTOBJ SEL)
                 ((NULL CH#ORCHARLOOKS)
                                                                                CH#))
                                                     TEXTOBJ1
             (RETURN LOOKS)
;;; Now break the looks apart into a PROPLIST
             (SETQ NLOOKS (\TEDIT.UNPARSE.CHARLOOKS.LIST LOOKS))
             (RETURN NLOOKS])
(DOCOBJ-REGISTER-OBJECT
   [LAMBDA (OBJECT)
                                                                                   ; Edited 23-Oct-87 14:48 by Koomen
     ;; The following ensures that all DocObjects get a chance to do whatever they want to before and after hardcopying. Each DocObject can ;; associate a BEFOREHARDCOPYFN and/or an AFTERHARDCOPYFN with the ImageObj representing the DocObject
     (DECLARE (SPECVARS TEXTOBJ))
     (if OBJECT
          then (TEXTPROP TEXTOBJ 'BEFOREHARDCOPYFN (FUNCTION DOCOBJ-BEFOREHARDCOPYFN)) (TEXTPROP TEXTOBJ 'AFTERHARDCOPYFN (FUNCTION DOCOBJ-AFTERHARDCOPYFN))
(DOCOBJ-STRING-IMAGEBOX
             (STRING IMAGESTREAM)
                                                                                   (* Koomen " 9-Feb-87 17:22")
      (DECLARE (SPECVARS CHNO TEXTOBJ))
     (PROG (LOOKS CLOFFSET FONT DEVICE HEIGHT DESCENT)
             (SETO LOOKS (DOCOBJ-GET-LOOKS TEXTOBJ CHNO))
             (SETQ CLOFFSET (fetch (CHARLOOKS CLOFFSET) of LOOKS))
             (SETQ FONT (fetch (CHARLOOKS CLFONT) of LOOKS))
             then (SETQ FONT (FONTCOPY FONT 'DEVICE DEVICE)))
             (SETQ HEIGHT (FONTHEIGHT FONT))
(SETQ DESCENT (FONTPROP FONT 'DESCENT))
             (RETURN (create IMAGEBOX
                                XSIZE _ (STRINGWIDTH STRING FONT)
                                YSIZE _ (IPLUS HEIGHT (IABS CLOFFSET))
                                YDESC _ (IDIFFERENCE DESCENT CLOFFSET)
XKERN _ 0])
(DOCOBJ-WAIT-MOUSE
   LAMBDA (STREAM)
                                                                                   ; Edited 8-Oct-87 23:46 by Koomen
     (while (NOT (MOUSESTATE UP)) bind (REGION _ (DSPCLIPPINGREGION NIL STREAM))
do (if (NOT (INSIDEP REGION (LASTMOUSEX STREAM))
                                 (LASTMOUSEY STREAM)))
                  then (RETURN NIL))
         finally (RETURN T])
(DOCOBJ-INVOKE-IMAGEOBJFN
   [LAMBDA (CH# PIECE IMAGEOBJFNNAME)
                                                                                   ; Edited 28-Jun-2023 19:45 by rmk
                                                                                    Edited 9-Sep-2022 16:10 by rmk
                                                                                    Edited 7-Sep-2022 23:11 by rmk
Edited 6-Sep-2022 10:05 by rmk
                                                                                    Edited 15-Oct-87 23:35 by Koomen
     ;; If PIECE is an IMAGEOBJ, invoke the function associated with the ImageObj property IMAGEOBJFNNAME on the IMAGEOBJ and the character
     ;; position where the IMAGEOBJ is located.
     (CL:WHEN (AND (type? PIECE PIECE)
          (EQ OBJECT.PTYPE (PTYPE PIECE)))
(LET ((IMAGEOBJ (PCONTENTS PIECE))
                  IMAGEOBJEN)
                 (SETQ IMAGEOBJFN (IMAGEOBJPROP IMAGEOBJ IMAGEOBJFNNAME))
                 (CL:WHEN (AND IMAGEOBJFN (DEFINEDP IMAGEOBJFN))
(APPLY* IMAGEOBJFN IMAGEOBJ CH# PIECE))))])
```

```
{MEDLEY}<lispusers>DOC-OBJECTS.;1
(DOCOBJ-BEFOREHARDCOPYFN
  [LAMBDA (TEXTSTREAM TEXTOBJ)
                                                                                      ; Edited 16-Mar-2024 10:05 by rmk
                                                                                      Edited 16-Jul-2023 16:53 by rmk
Edited 10-Jul-2023 22:29 by rmk
                                                                                      Edited 25-May-93 13:07 by sybalsky:mv:envos
     ;; This is the only BEFOREHARDCOPYFN, provided by DOC-OBJECTS. If the text doesn't contain any such objects, the property is NIL and the ;; piece-scan doesn't happen. This is installed in the TEXTOBJ by the call to DOCOBJ-REGISTER-OBJECT from every DOCOBJ create function.
          ;; We don't want to update the display lines to show the intermediate state while we are updating the pieces.
          (RESETSAVE (TEXTPROP TEXTOBJ 'DON'TUPDATE T)
          '(TEXTPROP, TEXTOBJ 'DON'TUPDATE OLDVALUE))
(LET ((PREVEVENTS (GETTOBJ TEXTOBJ TXTHISTORY))
                  (OLDDIRTY (GETTOBJ TEXTOBJ \DIRTY))
                  (PREVSEL (\TEDIT.COPYSEL (TEXTSEL TEXTOBJ)))
                  FAILED)
                ;; This is a little tricky because the imageobj function may screw around with the piece containining the object, delete it or replace it ;; with something else. But presumably it links into the previous saved piece, and we continue from there.
                 [bind OBJ FN PREVPC (CH# ]
                                                  1)
                    (PC _ (\TEDIT.FIRSTPIECE TEXTOBJ)) while PC

do (SETQ PC (if (AND (EQ OBJECT.PTYPE (PTYPE PC)))
                                                (SETQ OBJ (PCONTENTS PC))
                                                (SETQ FN (IMAGEOBJPROP OBJ 'BEFOREHARDCOPYFN))
                                          (DEFINEDP FN))
then (SETQ PREVPC (PREVPIECE PC))
                                                 (CL:UNLESS (APPLY* FN TEXTOBJ OBJ PC CH#)
                                                      (SETQ FAILED T)
                                                      (RETURN))
                                                 (if PREVPC
                                                     then (NEXTPIECE (if (EQ PC (NEXTPIECE PREVPC))
                                                                               then ;; Nothing affected this PC, advance
                                                                                      (add CH# (PLEN PC))
                                                                             else ;; Otherwise investigate its replacement
                                                                                  PREVPC))
                                                   elseif (EQ PC (\TEDIT.FIRSTPIECE TEXTOBJ))
                                                     then (add CH# (PLEN PC))
                                                            (NEXTPIECE PC)
                                                  else ;; Investigate the replacement of the previous first piece.
                                                         (\TEDIT.FIRSTPIECE TEXTOBJ))
                                       else (add CH# (PLEN PC))
                                             (NEXTPIECE PC]
                                                                                       Restore previous settings
                                                                                     ; The history event may restore SEL, but...
                 (SETTOBJ TEXTOBJ \DIRTY OLDDIRTY)
                ;; Make a single undoing event for the after fn
                 (for ETAIL on (GETTOBJ TEXTOBJ TXTHISTORY) until (EQ ETAIL PREVEVENTS) collect (CAR ETAIL)
                    finally (SETTOBJ TEXTOBJ TXTHISTORY (CONS $$VAL PREVEVENTS)))
                ;; In case something screws up, at least redisplaying will show something correctly (even if we aren't \DIRTY)
                 (\TEDIT.MARK.LINES.DIRTY TEXTOBJ 1 (TEXTLEN TEXTOBJ))
                 (CL:WHEN FAILED
                      (DOCOBJ-AFTERHARDCOPYFN TEXTSTREAM TEXTOBJ) ; UNDO whatever was saved
                       (SETTOBJ TEXTOBJ SEL PREVSEL)
                      'DON'T)))])
(DOCOBJ-AFTERHARDCOPYFN
                                                                                     ; Edited 15-Mar-2024 14:24 by rmk
  [LAMBDA (TEXTSTREAM TEXTOBJ)
                                                                                      Edited 15-Jul-2023 15:57 by rmk
                                                                                     ; Edited 25-May-93 13:08 by sybalsky:mv:envos
     (RESETLST
          (RESETSAVE (TEXTPROP TEXTOBJ 'DON'TUPDATE T)
          '(TEXTPROP ,TEXTOBJ 'DON'TUPDATE OLDVALUE))
(LET ((PREVUNDONE (GETTOBJ TEXTOBJ TXTHISTORYUNDONE)))
                 (TEDIT.UNDO TEXTOBJ)
                 (SETTOBJ TEXTOBJ TXTHISTORYUNDONE PREVUNDONE)
                 (\TEDIT.MARK.LINES.DIRTY TEXTOBJ 1 (TEXTLEN TEXTOBJ))
                 (\TEDIT.UPDATE.SCREEN TEXTOBJ)))])
```

(DOCOBJ-ACQUIRE-EVALED-OBJECT

;; Eval'd Form (DEFINEQ

> (* Koomen "30-Sep-86 02:08") (* * This is the original function called under GET.OBJ.FROM.USER * *)

(PROMPTFOREVALED "Form to eval: "])

(DECLARE (GLOBALVARS DOCOBJ-TIMESTAMP-IMAGEFNS))
(IMAGEOBJCREATE (COPYALL (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
DOCOBJ-TIMESTAMP-IMAGEFNS])

```
(DOCOBJ-TIMESTAMP-DISPLAYFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM IMAGESTREAMTYPE HOSTSTREAM)
                                                                  (* Koomen " 4-Feb-87 14:11")
    (PRINTOUT IMAGESTREAM (DOCOBJ-TIMESTAMP-TO-STRING (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM])
(DOCOBJ-TIMESTAMP-GETFN
         (FILESTREAM)
                                                                  (* Koomen "31-Jan-87 00:19")
    (DECLARE (GLOBALVARS DOCOBJ-TIMESTAMP-IMAGEFNS))
    (IMAGEOBJCREATE (READ FILESTREAM)
           DOCOBJ-TIMESTAMP-IMAGEFNS])
(DOCOBJ-TIMESTAMP-IMAGEBOXFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM CURRENTX RIGHTMARGIN)
                                                                  (* Koomen " 9-Feb-87 17:13")
          ((TIMESTAMP (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
            (TIMESTRING (DOCOBJ-TIMESTAMP-TO-STRING TIMESTAMP)))
          (DOCOBJ-STRING-IMAGEBOX TIMESTRING IMAGESTREAM])
(DOCOBJ-TIMESTAMP-PREPRINTFN
                                                                  ; Edited 8-Oct-87 22:29 by Koomen
    (DOCOBJ-TIMESTAMP-TO-STRING (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM])
(DOCOBJ-TIMESTAMP-PUTFN
                                                                  (* Koomen " 4-Feb-87 14:08")
  [LAMBDA (IMAGEOBJ FILESTREAM)
          [(TIMESTAMP (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM]
    (PROG
          (replace (DOCOBJ-TIMESTAMP IDATE) of TIMESTAMP with (IDATE))
          (replace (DOCOBJ-TIMESTAMP DATESTR) of TIMESTAMP with NIL)
          (PRINT TIMESTAMP FILESTREAM])
(DOCOBJ-TIMESTAMP-TO-STRING
  [LAMBDA (TIMESTAMP)
                                                                  (* Koomen " 4-Feb-87 14:12")
    (OR (STRINGP (fetch (DOCOBJ-TIMESTAMP DATESTR) of TIMESTAMP))
        (replace (DOCOBJ-TIMESTAMP DATESTR) of TIMESTAMP with (GDATE
                                                                     (fetch (DOCOBJ-TIMESTAMP IDATE) of TIMESTAMP)
                                                                     (fetch (DOCOBJ-TIMESTAMP FORMAT) of TIMESTAMP])
(RPAQ? DocObjectsTimeStampFormat )
(RPAQ? DOCOBJ-TIMESTAMP-IMAGEFNS (DOCOBJ-MAKE-TIMESTAMP-IMAGEFNS))
(ADDTOVAR DocObjectsMenuCommands ("Time Stamp" (DOCOBJ-MAKE-TIMESTAMP)
                                          "Date & time this document is PUT"))
;; File Stamp
(DEFINEQ
(DOCOBJ-MAKE-FILESTAMP
                                                                  ; Edited 8-Oct-87 22:55 by Koomen
    (DECLARE (SPECVARS TEXTOBJ)
           (GLOBALVARS DOCOBJ-F
                                 LESTAMP-IMAGEFNS)
    (IMAGEOBJCREATE (DOCOBJ-FILESTAMP-NEW-FULLNAME TEXTOBJ)
           DOCOBJ-FILESTAMP-IMAGEFNS])
(DOCOBJ-MAKE-FILESTAMP-IMAGEFNS
                                                                  ; Edited 8-Oct-87 22:54 by Koomen
    (LET ((DISPLAYFN (FUNCTION DOCOBJ-FILESTAMP-DISPLAYFN))
          (IMAGEBOXFN (FUNCTION DOCOBJ-FILESTAMP-IMAGEBOXFN))
          (PUTFN (FUNCTION DOCOBJ-FILESTAMP-PUTFN))
          (GETFN (FUNCTION DOCOBJ-FILESTAMP-GETFN))
          (COPYFN (FUNCTION DOCOBJ-FILESTAMP-COPYFN))
          (BUTTONEVENTINFN (FUNCTION NILL))
(COPYBUTTONEVENTINFN (FUNCTION NILL))
          (WHENMOVEDFN (FUNCTION NILL))
          (WHENINSERTEDFN (FUNCTION NILL))
          (WHENDELETEDFN (FUNCTION NILL))
          (WHENCOPIEDFN (FUNCTION NILL))
          (WHENOPERATEDONFN (FUNCTION NILL))
          (PREPRINTFN (FUNCTION DOCOBJ-FILESTAMP-PREPRINTFN)))
         (IMAGEFNSCREATE DISPLAYFN IMAGEBOXFN PUTFN GETFN COPYFN BUTTONEVENTINFN COPYBUTTONEVENTINFN WHENMOVEDFN
                WHENINSERTEDFN WHENDELETEDFN WHENCOPIEDFN WHENOPERATEDONFN PREPRINTFN])
(DOCOBJ-FILESTAMP-COPYFN
   LAMBDA (IMAGEOBJ SOURCEHOSTSTREAM TARGETHOSTSTREAM)
                                                                  (* Koomen "31-Jan-87 04:10")
    (DECLARE (GLOBALVARS DOCOBJ-FILESTAMP-IMAGEFNS))
    (IMAGEOBJCREATE (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM)
           DOCOBJ-FILESTAMP-IMAGEFNS])
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(DOCOBJ-FILESTAMP-DISPLAYFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM IMAGESTREAMTYPE HOSTSTREAM)
                                                                  ; Edited 8-Oct-87 22:56 by Koomen
    (PRINTOUT IMAGESTREAM (DOCOBJ-FILESTAMP-GET-FULLNAME IMAGEOBJ])
(DOCOBJ-FILESTAMP-GETFN
                                                                  ; Edited 8-Oct-87 22:58 by Koomen
          (FILESTREAM)
    (DECLARE (GLOBALVARS DOCOBJ-FILESTAMP-IMAGEFNS))
    (LET ((FULLNAME (READ FILESTREAM)))
         (IMAGEOBJCREATE (AND FULLNAME (MKSTRING FULLNAME))
                DOCOBJ-FILESTAMP-IMAGEFNS])
(DOCOBJ-FILESTAMP-IMAGEBOXFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM CURRENTX RIGHTMARGIN)
                                                                  ; Edited 8-Oct-87 22:59 by Koomen
    (LET ((FULLNAME (DOCOBJ-FILESTAMP-GET-FULLNAME IMAGEOBJ)))
         (DOCOBJ-STRING-IMAGEBOX FULLNAME IMAGESTREAM])
(DOCOBJ-FILESTAMP-GET-FULLNAME
  [LAMBDA (IMAGEOBJ NODEFAULTFLG)
                                                                  ; Edited 8-Oct-87 22:59 by Koomen
    (PROG [(FULLNAME (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM]
          (RETURN (OR (if FULLNAME
                          then (if (LITATOM FULLNAME)
                                   then (MKSTRING FULLNAME)
                                 elseif (STRINGP FULLNAME)
                                   then (COPYALL FULLNAME)))
                       (if (NOT NODEFAULTFLG)
                          then "-- not yet filed --"])
(DOCOBJ-FILESTAMP-NEW-FULLNAME
  [LAMBDA (TEXTOBJ)
                                                                  ; Edited 8-Oct-87 22:52 by Koomen
    (PROG ((FULLNAME (FULLNAME TEXTOBJ)))
          (RETURN (if FULLNAME
                      then (if
                              (LITATOM FULLNAME)
                               then (MKSTRING FULLNAME)
                             elseif (STRINGP FULLNAME)
                               then (COPYALL FULLNAME])
(DOCOBJ-FILESTAMP-PREPRINTFN
                                                                  ; Edited 8-Oct-87 22:56 by Koomen
    (DOCOBJ-FILESTAMP-GET-FULLNAME IMAGEOBJ T1)
(DOCOBJ-FILESTAMP-PUTFN
  [LAMBDA (IMAGEOBJ FILESTREAM)
                                                                  ; Edited 8-Oct-87 22:39 by Koomen
    (PROG [(FULLNAME (MKSTRING (FULLNAME FILESTREAM]
          (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM FULLNAME)
          (PRINT FULLNAME FILESTREAM))
)
(RPAQ? DOCOBJ-FILESTAMP-IMAGEFNS (DOCOBJ-MAKE-FILESTAMP-IMAGEFNS))
(ADDTOVAR DocObjectsMenuCommands ("File Stamp" (DOCOBJ-MAKE-FILESTAMP)
                                          "Name of file to which this document was last PUT."))
;; Horizontal Rule
(FILESLOAD (SYSLOAD)
       HRULE READNUMBER)
(DEFINEO
(DOCOBJ-MAKE-HRULE
                                                                   * Koomen " 4-Feb-87 16:12"
  [LAMBDA NIL
    (HRULE.CREATE (bind width for I from 1 while (AND (SETO WIDTH (DOCOBJ-HRULE-GET-WIDTH (ODDP I)
                                                                        (EQ I 1)))
                                                     (GREATERP WIDTH 0))
                     collect WIDTH1)
(DOCOBJ-EDIT-HRULE
                                                                  (* Koomen " 4-Feb-87 15:45")
  [LAMBDA (IMAGEOBJ)
    (PROG [NEWWIDTH (OLDWIDTH (MKLIST (IMAGEOBJPROP IMAGEOBJ 'RULE.WIDTH]
          (SETQ NEWWIDTH (COPYALL OLDWIDTH))
          (if (AND (NLSETQ (EDITE NEWWIDTH))
                  (NOT (EQUAL NEWWIDTH OLDWIDTH)))
              then (IMAGEOBJPROP IMAGEOBJ 'RULE.WIDTH NEWWIDTH)
                   (RETURN IMAGEOBJ])
(DOCOBJ-HRULE-INIT
                                                                  (* Koomen " 4-Feb-87 16:13")
  [LAMBDA NIL
```

[LAMEDA NIL
(LET ((DISPLAYFN (FUNCTION DOCOBJ-INCLUDE-DISPLAYFN))
(IMAGEBOXFN (FUNCTION DOCOBJ-INCLUDE-IMAGEBOXFN))
(PUTFN (FUNCTION DOCOBJ-INCLUDE-PUTFN))
(GETFN (FUNCTION DOCOBJ-INCLUDE-GETFN))
(COPYFN (FUNCTION DOCOBJ-INCLUDE-COPYFN))
(BUTTONEVENTINFN (FUNCTION DOCOBJ-INCLUDE-BUTTONEVENTINFN))
(COPYBUTTONEVENTINFN (FUNCTION NILL))
(WHENMOVEDFN (FUNCTION NILL))
(WHENINSERTEDFN (FUNCTION NILL))
(WHENDELETEDFN (FUNCTION NILL))
(WHENCOPIEDFN (FUNCTION NILL))
(WHENCOPIEDFN (FUNCTION NILL))
(WHENOPERATEDONFN (FUNCTION NILL))
(WHENOPERATEDONFN (FUNCTION NILL))
(PREPRINTFN (FUNCTION DOCOBJ-INCLUDE-PREPRINTFN)))
(IMAGEFNSCREATE DISPLAYFN IMAGEBOXFN PUTFN GETFN COPYFN BUTTONEVENTINFN COPYBUTTONEVENTINFN WHENMOVEDFN

WHENINSERTEDFN WHENDELETEDFN WHENCOPIEDFN WHENOPERATEDONFN PREPRINTFN])

(DOCOBJ-INCLUDE-CREATE-OBJ

[LAMBDA (IMAGEOBJ)

```
; Edited 23-Oct-87 14:06 by Koomen
     (DECLARE (GLOBALVARS DOCOBJ-INCLUDE-IMAGEFNS))
    (LET (IMAGEOBJ)
          (CL:WHEN (AND INCLOBJ (NLISTP INCLOBJ))
               ;; Just a file name
               (SETQ INCLOBJ (create INCLOBJ
                                        FILENAME _ (MKSTRING INCLOBJ)
ENABLEDP _ T)))
                             (IMAGEOBJCREATE INCLOBJ DOCOBJ-INCLUDE-IMAGEFNS))
           (DOCOBJ-INCLUDE-RESET-OBJ IMAGEOBJ)
          (DOCOBJ-REGISTER-OBJECT IMAGEOBJ)
          IMAGEOBJ])
(DOCOBJ-INCLUDE-EDIT
                                                                             ; Edited 9-May-2018 11:09 by rmk:
; Edited 9-May-2018 10:35 by rmk:
  [LAMBDA (INCLOBJ)
                                                                              ; Edited 26-Oct-87 19:57 by Koomen
     (DECLARE (SPECVARS TEXTOBJ))
    (SELECTQ [MENU (OR DOCOBJ-INCLUDE-EDITMENU (SETQ DOCOBJ-INCLUDE-EDITMENU
                                                          (create MENU
                                                                           "Edit Include"
                                                                  TITLE
                                                                  ITEMS _ '(("New File" 'NEW.FILE "Include a different
                                                                              file")
("Edit File" 'EDIT.FILE "Edit the included
                                                                              file")
("Enable" 'ENABLE "Include the file during
                                                                              hardcopy")
("Disable" 'DISABLE "Do not include the file
                                                                                      during hardcopy"))
                                                                 CENTERFLG _ T
MENUOFFSET _ '(-1 . 30)
CHANGEOFFSETFLG _ 'Y]
          (NEW.FILE (LET [(NEWNAME (TEDIT.GETINPUT TEXTOBJ "Enter new file name: " (fetch (INCLOBJ FILENAME)
                                                                                                     of INCLOBJ]
                            (if [AND NEWNAME (SETQ NEWNAME (MKSTRING NEWNAME))
                                     (NOT (EQUAL NEWNAME (fetch (INCLOBJ FILENAME) of INCLOBJ]
                                then
                                      (replace (INCLOBJ FILENAME) of INCLOBJ with NEWNAME)
                                      T)))
          (EDIT.FILE (for W in (OPENWINDOWS)
                          bind [FULLNAME _ (OR [FINDFILE (fetch (INCLOBJ FILENAME) of INCLOBJ)
                                                            (CONS (PACKFILENAME.STRING 'HOST (FILENAMEFIELD (FETCH
                                                                                                                              TXTFILE
                                                                                                                         OF TEXTOBJ)
                                                                                                            'HOST)
                                                                           'DIRECTORY
                                                                           (FILENAMEFIELD (FETCH TXTFILE OF TEXTOBJ)
                                                                                    'DIRECTORY]
                                                   (INFILEP (fetch (INCLOBJ FILENAME) of INCLOBJ]
                          first (if (NULL FULLNAME)
                                    then (TEDIT.PROMPTPRINT TEXTOBJ "Can't find " T)
(TEDIT.PROMPTPRINT TEXTOBJ (fetch (INCLOBJ FILENAME) of INCLOBJ))
                          WHEN (SETQ W (DOCOBJ-INCLUDE-EDIT-WINDOWP FULLNAME W)) do (TOTOPW W)
                                                                                                   (GIVE.TTY.PROCESS W)
                                                                                                   (RETURN)
          \begin{array}{ccccc} & \textbf{finally} & (\texttt{TEDIT} & (\texttt{MKATOM} & \texttt{FULLNAME}))))\\ (\texttt{ENABLE} & (\textbf{if} & (\texttt{NOT} & (\textbf{fetch} & (\texttt{INCLOBJ} & \texttt{ENABLEDP}) & \textbf{of} & \texttt{INCLOBJ})) \end{array}
                        then (replace (INCLOBJ ENABLEDP) of INCLOBJ with T)
          (DISABLE (if (fetch (INCLOBJ ENABLEDP) of INCLOBJ)
                         then (replace (INCLOBJ ENABLEDP) of INCLOBJ with NIL)
                              T))
         NIL])
(DOCOBJ-INCLUDE-EDIT-WINDOWP
                                                                              Edited 27-Mar-2024 23:42 by rmk
  [LAMBDA (FILENAME WINDOW)
                                                                              Edited 26-Oct-87 19:53 by Koomen
     (CL:WHEN (WINDOWP WINDOW)
         [OR (LET (TEXTOBJ TXTFILE)
                    (CL:WHEN (AND (SETQ TEXTOBJ (TEXTOBJ WINDOW T))
                                     (SETQ TXTFILE (GETTOBJ TEXTOBJ TXTFILE))
                                     (STREAMP TXTFILE)
                                     (SETQ TXTFILE (FULLNAME TXTFILE))
                                     (OR (STRINGP TXTFILE)
                                          (LITATOM TXTFILE))
                                     (STRING-EQUAL FILENAME TXTFILE))
                            WINDOW))
              (DOCOBJ-INCLUDE-EDIT-WINDOWP FILENAME (WINDOWPROP WINDOW 'ICONFOR])])
(DOCOBJ-INCLUDE-RESET-OBJ
```

Edited 16-Jul-2023 10:02 by rmk

Edited 23-Oct-87 14:09 by Koomen

```
(DECLARE (GLOBALVARS DOCOBJ-INCLUDE-IMAGEFNS))
           (INCLOBJ FNAME)
            (if (SETQ INCLOBJ (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
                     (SETQ FNAME (fetch (INCLOBJ FILENAME) of INCLOBJ))
                then
                      (IMAGEOBJPROP IMAGEOBJ 'INCLDISPLAYSTRING (CONCAT "@Include[" FNAME "]"))
                      (IMAGEOBJPROP IMAGEOBJ 'DONTINCLDISPLAYSTRING (CONCAT "@DONOtInclude[" FNAME "]")))
           (IMAGEOBJPROP IMAGEOBJ 'BEFOREHARDCOPYFN (FUNCTION DOCOBJ-INCLUDE-BEFOREHARDCOPYFN))
     ;; There is now no need to cleanup afterwards--the TEDIT history undoes the inclusion and any other hardcopy stuff.
            (AND NIL (IMAGEOBJPROP IMAGEOBJ 'AFTERHARDCOPYFN (FUNCTION DOCOBJ-INCLUDE-AFTERHARDCOPYFN])
(DEFINEQ
(DOCOBJ-INCLUDE-BEFOREHARDCOPYFN
                                                                             ; Edited 16-Feb-2024 23:47 by rmk
  [LAMBDA (TEXTOBJ OBJ PC CH#)
                                                                             Edited 23-Jul-2023 22:45 by rmk
                                                                             Edited 16-Jul-2023 11:14 by rmk
                                                                             Edited 10-Jul-2023 22:18 by rmk
                                                                             Edited 22-Jun-2023 16:44 by rmk
    ;; This replaces the PC, the piece with an included-file object, with the contents of that file. The undo event will restore the object. Since the piece
    ;; with the object is deleted, its paragraph looks are ignored and only the lookos of the inserted file are interpreted. E.g., to get a page break before ;; the included file, either the first piece of that file must be a page break, or a blank NEWPAGEBEFORE paragraph must come before the OBJ.'
    ;; Returns T if the inclusion is succeeds as intended, NIL otherwise.
    ;; Not sure why the INCLUDEDP property. If enabled, it's included
    (if (fetch (INCLOBJ ENABLEDP) of (IMAGEOBJPROP OBJ 'OBJECTDATUM))
         then (LET ([INCLFILE (fetch (INCLOBJ FILENAME) of (IMAGEOBJPROP OBJ 'OBJECTDATUM]
                      (TXTFILE (GETTOBJ TEXTOBJ TXTFILE))
                     INCLSTREAM)
                     [SETQ INCLFILE (FINDFILE INCLFILE T (AND TXTFILE (CONS (PACKFILENAME.STRING
                                                                                       'HOST
                                                                                        (FILENAMEFIELD TXTFILE 'HOST)
                                                                                       'DIRECTORY
                                                                                       (FILENAMEFIELD TXTFILE 'DIRECTORY))
                                                                                      DIRECTORIES1
                     (if INCLFILE
                         then
                              ;; No point in prompting: it just flashes by
                               (AND NIL (TEDIT.PROMPTPRINT TEXTOBJ (CONCAT "Including " INCLFILE "...")
                                                  T))
                               (\TEDIT.UPDATE.SEL (TEXTSEL TEXTOBJ)
                                       CH# 1 'LEFT T)
                                                                            ; Set the destination
                               (\TEDIT.DELETE TEXTOBJ (TEXTSEL TEXTOBJ)
                                       T)
                               (TEDIT.INCLUDE TEXTOBJ INCLFILE NIL NIL DOCOBJ-INCLUDE-SAFE)
                               (AND NIL (TEDIT.PROMPTPRINT TEXTOBJ (CONCAT "Including " INCLFILE "...done")))
                            ;; Did not succeed as intended. Caller should restore the stream, maybe selecting and highlighting the bad inclusion.
                            (TEDIT. PROMPTPRINT TEXTOBJ (CONCAT "Included file " (fetch (INCLOBJ FILENAME)
                                                                                             of OBJ)
                                                                     " not found")
                                    TT)
                           NIL))
      else
           ;; Succeeded as intended
           T1)
(DOCOBJ-INCLUDE-CLEANUPFN
  [LAMBDA (TEXTSTREAM STARTPOS LEN)
                                                                            ; Edited 15-Mar-2024 14:08 by rmk
                                                                             Edited 11-Dec-2023 11:32 by rmk
Edited 22-Jun-2023 16:53 by rmk
                                                                             Edited 6-Sep-2022 10:08 by rmk
                                                                             Edited 3-Jun-93 12:43 by sybalsky:mv:envos
    ;; Do the cleanup of removing an included file's pieces (and closing it) after hardcopying with inclusions.
    (HELP "NOTUSED?" 'DOCOBJ-INCLUDE-CLEANUPFN)
          ((TEXTOBJ (TEXTOBJ TEXTSTREAM)))
          (for PC inselpieces (\TEDIT.SELPIECES STARTPOS (SUB1 (IPLUS STARTPOS LEN))
                                         TEXTOBJ)
              when (MEMB (PTYPE PC)
                           FILE.PTYPES)
              do (CLOSEF? (PCONTENTS PC)))
          ;; We don't want these deletes on the history list
          (replace (TEXTOBJ TXTHISTORY) of TEXTOBJ with (PROG1 (fetch (TEXTOBJ TXTHISTORY) of TEXTOBJ)
                                                                       (TEDIT.DELETE TEXTSTREAM STARTPOS LEN)))
          (BLOCK1)
(DOCOBJ-INCLUDE-BUTTONEVENTINFN
  [LAMBDA (IMAGEOBJ WINDOWSTREAM SELECTION RELX RELY WINDOW HOSTSTREAM BUTTON)
                                                                            : Edited 23-Oct-87 00:46 by Koomen
    (if (AND (EQ BUTTON 'MIDDLE)
```

```
(DOCOBJ-WAIT-MOUSE WINDOWSTREAM))
        then
             (if (DOCOBJ-INCLUDE-EDIT (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM))
                 then (DOCOBJ-INCLUDE-RESET-OBJ IMAGEOBJ)
                      'CHANGED1)
(DOCOBJ-INCLUDE-COPYFN
          (IMAGEOBJ SOURCEHOSTSTREAM TARGETHOSTSTREAM)
                                                                      ; Edited 23-Oct-87 00:13 by Koomen
    (DOCOBJ-INCLUDE-CREATE-OBJ (COPYALL (IMAGEOBJPROP IMAGEOBJ OBJECTDATUM])
(DOCOBJ-INCLUDE-DISPLAYFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM IMAGESTREAMTYPE HOSTSTREAM)
                                                                      Edited 22-Jun-2023 14:00 by rmk
                                                                      ; Edited 23-Oct-87 14:42 by Koomen
    (LET [(INCLOBJ (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM]
         (CL:WHEN [AND INCLOBJ (OR (EQ IMAGESTREAMTYPE 'DISPLAY)
                                      (NOT (fetch (INCLOBJ ENABLEDP) of INCLOBJ)
                                     (IMAGEOBJPROP IMAGEOBJ (if (fetch (INCLOBJ ENABLEDP) of INCLOBJ)
then 'INCLDISPLAYSTRING
             [printout IMAGESTREAM
                                                                 else 'DONTINCLDISPLAYSTRING])])
(DOCOBJ-INCLUDE-GETFN
                                                                      ; Edited 26-Oct-87 22:00 by Koomen
  [LAMBDA (FILESTREAM)
    (LET ((INCLOBJ (READ FILESTREAM)))
(if (NLISTP INCLOBJ)
             then ;; Version 1: Just filename as string
                  ;; Version 2: List whose CAR is filename
                  (SETQ INCLOBJ (create INCLOBJ
                                         FILENAME _ INCLOBJ)))
         (if (NLISTP (CDR INCLOBJ))
             then ;; Version 3: List whose CADR is ENABLEDP flag
                   (NCONC1 INCLOBJ T)
         (DOCOBJ-INCLUDE-CREATE-OBJ INCLOBJ))
(DOCOBJ-INCLUDE-IMAGEBOXFN
  [LAMBDA (IMAGEOBJ IMAGESTREAM CURRENTX RIGHTMARGIN)
                                                                     ; Edited 23-Oct-87 14:41 by Koomen
    (OR (LET [(INCLOBJ (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM]
              (if [AND INCLOBJ (OR (EQ (IMAGESTREAMTYPE IMAGESTREAM)
                                        'DISPLAY)
                                    (NOT (fetch (INCLOBJ ENABLEDP) of INCLOBJ)
                 then (DOCOBJ-STRING-IMAGEBOX (IMAGEOBJPROP IMAGEOBJ (if (fetch (INCLOBJ ENABLEDP) of INCLOBJ) then 'INCLDISPLAYSTRING
                                                                              else 'DONTINCLDISPLAYSTRING))
                              IMAGESTREAM)))
        (create IMAGEBOX
                XSIZE _ 0
                YSIZE _ 0
               YDESC _ 0
XKERN _ 0])
(DOCOBJ-INCLUDE-PREPRINTFN
                                                                      ; Edited 23-Oct-87 14:19 by Koomen
  [LAMBDA (IMAGEOBJ)
    (fetch (INCLOBJ FILENAME) of (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM])
(DOCOBJ-INCLUDE-PUTFN
  [LAMBDA (IMAGEOBJ FILESTREAM)
(PRINT (IMAGEOBJPROP IMAGEOBJ 'OBJECTDATUM)
                                                                     ; Edited 15-Oct-87 17:17 by Koomen
           FILESTREAM])
(RPAO? DOCOBJ-INCLUDE-EDITMENU )
(RPAO? DOCOBJ-INCLUDE-IMAGEFNS (DOCOBJ-MAKE-INCLUDE-IMAGEFNS))
(ADDTOVAR DocObjectsMenuCommands ("Include" (DOCOBJ-MAKE-INCLUDE)
                                            "Include another document right here when hardcopying"))
(DECLARE%: DONTEVAL@LOAD DOCOPY
(DOCOBJ-INIT)
(DECLARE%: EVAL@LOAD DONTCOPY
(PUTPROPS DOC-OBJECTS FILETYPE : TCOMPL)
(PUTPROPS DOC-OBJECTS MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "INTERLISP" :BASE 10))
```

{MEDLEY}spusers>DOC-OBJECTS.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:14:02 --

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