```
4-Feb-2022 14:14:40 {MM}<rooms>ROOMS-NOTES.;2
 File created:
  changes to:
               (IL: FUNCTIONS EDIT-NOTE-WINDOW-TEXT)
                5-Dec-2020 16:39:51 {MM}<rooms>ROOMS-NOTES.;1
previous date:
 Read Table:
               XCL
    Package:
               ROOMS
      Format:
                XCCS
; Copyright (c) 1987-1988, 1990, 2020 by Venue & Xerox Corporation.
(IL:RPAQQ IL:ROOMS-NOTESCOMS
           ((FILE-ENVIRONMENTS IL:ROOMS-NOTES)
            (IL:P (EXPORT '(*DEFAULT-NOTE-WINDOW-FONT* MAKE-NOTE-WINDOW))
                   (REQUIRE "ROOMS"))
            ;; provides note windows
            (IL:STRUCTURES NOTE)
            (IL: VARIABLES *DEFAULT-NOTE-WINDOW-FONT*)
            (IL:FUNCTIONS MAKE-NOTE-WINDOW NOTE-WINDOW-REPAINTFN PRINT-NOTE-STRING NOTE-WINDOW-BUTTONEVENTFN
                    EDIT-NOTE-WINDOW-TEXT SET-NOTE-WINDOW-FONT SET-NOTE-WINDOW-TITLE)
            (IL:WINDOW-TYPES :NOTE-WINDOW)
            (IL:DECLARE\: IL:EVAL@COMPILE IL:DONTCOPY (IL:P (OR (IL:HASDEF 'STREAM 'IL:RECORDS)
                                                                      (IL:EVAL (IL:SYSRECLOOK1 'STREAM)))))
            (IL:GLOBALVARS IL:BOLDFONT)))
(DEFINE-FILE-ENVIRONMENT IL:ROOMS-NOTES : COMPILER : COMPILE-FILE
   :PACKAGE "ROOMS"
   :READTABLE "XCL")
(EXPORT '(*DEFAULT-NOTE-WINDOW-FONT* MAKE-NOTE-WINDOW))
(REOUIRE "ROOMS")
;; provides note windows
(DEFSTRUCT NOTE
;;; a note for display in a note-window
   (STRING "" : TYPE STRING)
   (FONT NIL :TYPE FONT)
   (TITLE "Note:" :TYPE STRING)
   (READ-ONLY? NIL :TYPE (MEMBER T NIL)))
(DEFVAR *DEFAULT-NOTE-WINDOW-FONT* IL:BOLDFONT)
(DEFUN MAKE-NOTE-WINDOW (&KEY REGION (TITLE "Note:") (STRING "")
                                         (FONT *DEFAULT-NOTE-WINDOW-FONT*)
                                         (READ-ONLY? NIL))
   (LET ((WINDOW (IL:CREATEW REGION TITLE)))
         (IL:WINDOWPROP WINDOW 'NOTE (MAKE-NOTE :STRING STRING :FONT (IF (SYMBOLP FONT)
                                                                                FONT
                                                                                (IL:FONTCREATE FONT))
                                                :TITLE TITLE :READ-ONLY? READ-ONLY?))
         (IL:WINDOWPROP WINDOW 'IL:REPAINTFN 'NOTE-WINDOW-REPAINTFN) (IL:WINDOWPROP WINDOW 'IL:RESHAPEFN 'NOTE-WINDOW-REPAINTFN)
         (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN 'NOTE-WINDOW-BUTTONEVENTFN)
(IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN 'NOTE-WINDOW-BUTTONEVENTFN)
         (NOTE-WINDOW-REPAINTFN WINDOW)
        WINDOW))
(DEFUN NOTE-WINDOW-REPAINTFN (WINDOW &REST IGNORE)
   (LET* ((NOTE (IL:WINDOWPROP WINDOW 'NOTE))
           (DSP (IL:GETSTREAM WINDOW))
           (FONT (NOTE-FONT NOTE)))
          (IL:WINDOWPROP WINDOW 'IL:TITLE (NOTE-TITLE NOTE))
          (IL:DSPFONT (IF (SYMBOLP FONT)
                            (SYMBOL-VALUE FONT)
                           FONT)
                 DSP)
          (IL:CLEARW WINDOW)
          ;; why 8? that's what TEdit uses.
          (PRINT-NOTE-STRING (NOTE-STRING NOTE)
                 DSP 8 (- (IL:WINDOWPROP WINDOW 'IL:WIDTH) 8))))
```

```
(DEFUN PRINT-NOTE-STRING (STRING DSP LEFT-MARGIN RIGHT-MARGIN &OPTIONAL (LINE-LEADING 0))
;;; print STRING to DSP within LEFT-MARGIN & RIGHT-MARGIN, breaking lines at spaces. I shouldn't have to write this, so it's ok if the code is ugly, ;;; right?
   (CHECK-TYPE DSP (SATISFIES IL:DISPLAYSTREAMP))
   (PROG*
           ((CHAR)
             (FONT (IL:DSPFONT NIL DSP))
             (LINE-HEIGHT (+ (IL:FONTHEIGHT FONT)
                               LINE-LEADING))
             (LENGTH (VECTOR-LENGTH STRING))
             (DD (IL:FETCH (STREAM IL:IMAGEDATA) IL:OF DSP))
             (LAST-SPACE 0)
                                                                            ; offset in string where we'll break
                                                                            ; offset into string where this line starts
             (LINE-START 0)
                                                                            current offset into string
             (I - 1)
             (X LEFT-MARGIN)
                                                                            x position of char at I in pixels
                                                                            ; x position of char at LAST-SPACE in pixels
             (X-AT-LAST-SPACE LEFT-MARGIN)
            (IL:MOVETO LEFT-MARGIN (- (IL:DSPYPOSITION NIL DSP)
                                          LINE-LEADING)
                   DSP)
      LOOP
            (INCF I)
            (WHEN (>= I LENGTH)
                (SETQ LAST-SPACE LENGTH)
                (GO DUMP-LINE))
            (SETQ CHAR (AREF STRING I))
(CASE CHAR
                (#\Space
                    (DO ((N (1+ I)
                             (1+ N))
                        ;; skip through multiple spaces without checking for line breaks so that line breaks are always forced after a group of spaces
                         ((OR (= N LENGTH)
                              (NOT (EQL (AREF STRING N)
                                          #\Space))))
                       (INCF I)
                       (INCF X (IL:CHARWIDTH (CHAR-CODE #\Space)
                                        FONT)))
                    (SETQ LAST-SPACE I)
                    (SETQ X-AT-LAST-SPACE X))
                                                                            ; force line break
                (#\Newline
                    (SETQ LAST-SPACE I)
                    (SETO X-AT-LAST-SPACE X)
                    (GO DUMP-LINE)))
            (INCF X (IL:CHARWIDTH (CHAR-CODE CHAR)
                             FONT))
            (WHEN (> X RIGHT-MARGIN)
                ;; check if line needs breaking
                (WHEN (AND (<= LAST-SPACE LINE-START))
                     ;; if we've had no spaces on this line, just break it where we are. we actually lose a character here, as DUMP-LINE always skips
                     ;; the character we're on, presuming it's a space or CR.
                     (SETO LAST-SPACE I)
                     (SETQ X-AT-LAST-SPACE X))
                (GO DUMP-LINE))
            (GO LOOP)
      DUMP-LINE
    ;; dump chars from LINE-START up to (but not including) LAST-SPACE.
            (DO ((N LINE-START (1+ N)))
                ((OR (= N LAST-SPACE)
                      (= N LENGTH))
                 ;; move to the next line
                 (IL:MOVETO LEFT-MARGIN (- (IL:DSPYPOSITION NIL DSP)
                                                LINE-HEIGHT)
                         DSP)
                 ;; adjust X & LINE-START
                  (SETQ X (+ LEFT-MARGIN (- X X-AT-LAST-SPACE)))
                  (SETQ LINE-START (1+ LAST-SPACE)))
              ;; this is soooo much faster than calling WRITE-CHAR. the down side is that this code will now only work on display streams.
              (IL:\\BLTCHAR (CHAR-CODE (AREF STRING N))
                      DSP DD))
            (IF (>= I LENGTH)
                (RETURN)
                (GO LOOP))))
```

(DEFUN NOTE-WINDOW-BUTTONEVENTFN (WINDOW) (IL:TOTOPW WINDOW)

```
(WHEN (AND (IL:MOUSESTATE (IL:ONLY IL:MIDDLE))
                 (NOT (NOTE-READ-ONLY? (IL:WINDOWPROP WINDOW 'NOTE))))
        (CASE (MENU /(("Edit Text" :EDIT "Edit the text of this note window with TEdit.")
             ("Set Font" :FONT "Set the font of this note window."))

("Set Title" :TITLE "Set the title of this note window.")))

(:EDIT (IL:ADD.PROCESS `(EDIT-NOTE-WINDOW-TEXT ',WINDOW)))

(:FONT (IL:ADD.PROCESS `(SET-NOTE-WINDOW-FONT ',WINDOW)))

(:TITLE (IL:ADD.PROCESS `(SET-NOTE-WINDOW-TITLE ',WINDOW)))))
(DEFUN EDIT-NOTE-WINDOW-TEXT (WINDOW)
                                                                             ; Edited 4-Feb-2022 14:14 by rmk
   (LET ((NOTE (IL:WINDOWPROP WINDOW 'NOTE)))
         (IF (FBOUNDP 'IL:TEDIT)
              (LET ((TEXT-STREAM (IL:OPENTEXTSTREAM (IL:OPENSTRINGSTREAM (NOTE-STRING NOTE))
                                             NIL NIL NIL
                                              `(IL:FONT , (NOTE-FONT NOTE)
IL:NOTITLE T IL:PROMPTWINDOW ,IL:PROMPTWINDOW IL:MENU
                                                       (IL: |Find | IL: |Substitute | IL: |Quit |)
                                                       IL: OUITFN
                                                       ,#'(LAMBDA (WINDOW STREAM TEXTOBJ IL:PROPS)
                                                                   (IL:|replace| IL:EDITFINISHEDFLG | IL:|of| TEXTOBJ | IL:|with| T)
                                                                   'IL:DON\'T)
                                                       TI.: AFTEROUTTEN
                                                       ,#'(LAMBDA (WINDOW STREAM)
                                                                   (IL:OPENW WINDOW)))))
                    (IL:TTY.PROCESS (IL:THIS.PROCESS))
                    (SETF (NOTE-STRING NOTE)
                            (IL:TEDIT TEXT-STREAM WINDOW T))
                    (IL:BLOCK 200)
                    (IL:WINDOWPROP WINDOW 'IL:REPAINTFN 'NOTE-WINDOW-REPAINTFN)
(IL:WINDOWPROP WINDOW 'IL:RESHAPEFN 'NOTE-WINDOW-REPAINTFN)
(IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN 'NOTE-WINDOW-BUTTONEVENTFN)
                    (NOTE-WINDOW-REPAINTFN WINDOW)))))
(DEFUN SET-NOTE-WINDOW-FONT (WINDOW)
   (LET* ((NOTE (IL:WINDOWPROP WINDOW 'NOTE))
            (OLD-FONT (NOTE-FONT NOTE))
            (NEW-FONT (SEDIT::SEDITE (IF
                                              (SYMBOLP OLD-FONT)
                                              OLD-FONT
                                               (EXTERNALIZE-FONT OLD-FONT))
                                NIL NIL NIL '(:CLOSE-ON-COMPLETION))))
          (SETF
                 (NOTE-FONT NOTE)
                  (IF (SYMBOLP NEW-FONT)
                      NEW-FONT
                       (IL:FONTCREATE NEW-FONT)))
          (NOTE-WINDOW-REPAINTFN WINDOW)))
(DEFUN SET-NOTE-WINDOW-TITLE (WINDOW)
   (LET* ((NOTE (IL:WINDOWPROP WINDOW 'NOTE))

(TITLE (PROMPT-USER "Title:" "Type title (CR to abort)")))
          (WHEN TITLE
               (SETF (NOTE-TITLE NOTE)
               (NOTE-WINDOW-REPAINTFN WINDOW))))
(DEF-WINDOW-TYPE :NOTE-WINDOW :RECOGNIZER (LAMBDA (WINDOW)
                                                                (NOTE-P (IL:WINDOWPROP WINDOW 'NOTE)))
   :ABSTRACTER (LAMBDA (WINDOW)
                          (LET* ((NOTE (IL:WINDOWPROP WINDOW 'NOTE))
                                   (FONT (NOTE-FONT NOTE)))
                                  '(:REGION , (EXTERNALIZE-REGION (WINDOW-REGION WINDOW))
                                           :TITLE
                                           , (NOTE-TITLE NOTE)
                                           :STRING
                                           , (NOTE-STRING NOTE)
                                           :FONT
                                           , (IF (SYMBOLP FONT)
                                                 FONT
                                                 (EXTERNALIZE-FONT FONT))
                                           :READ-ONLY?
                                           , (NOTE-READ-ONLY? NOTE))))
   :RECONSTITUTER (LAMBDA (ARGS)
                              (LET ((REST (COPY-LIST ARGS)))
                                    (REMF REST : REGION)
                                    (APPLY #'MAKE-NOTE-WINDOW : REGION (INTERNALIZE-REGION (GETF ARGS : REGION
                                                                                                             '(0 0 100 100)))
                                            REST)))
   :TITLE (LAMBDA (PLACEMENT REGION DSP)
                    (LET ((NOTE (IL:WINDOWPROP (PLACEMENT-WINDOW PLACEMENT)
                                           'NOTE)))
                          (PRINT-PEP-TITLE-STRING (IF (AND NOTE (NOTE-TITLE NOTE))
                                                            (STRING (NOTE-TITLE NOTE))
                                                            "Note:")
                                  REGION DSP :NO-TITLE-BAR? (PLACEMENT-SHRUNKEN? PLACEMENT)))))
```

(IL:PUTPROPS IL:ROOMS-NOTES IL:COPYRIGHT ("Venue & Xerox Corporation" 1987 1988 1990 2020))

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{MEDLEY}<rooms>ROOMS-NOTES.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:15 --

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