```
edit by:
                rmk
  changes to:
                (FNS \TEDIT.COPYTOCLIPBOARD \TEDIT.WRITE.SEL)
                (MACROS \TEDIT.MOUSESTATE)
previous date:
                21-Apr-2024 10:17:38 {DSK}<Users>kaplan>Local>medley3.5>working-medley>library>tedit>TEDIT-COMMAN
D.;80
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                 XCCS
(RPAQQ TEDIT-COMMANDCOMS
        [[DECLARE%: EVAL@COMPILE DONTCOPY (CONSTANTS (\SCRATCHLEN 64))
                 (CONSTANTS (MSPACE 153)
                         (NSPACE 152)
                         (THINSPACE 159)
                         (FIGSPACE 154))
                 (EXPORT (CONSTANTS (NONE.TTC 0)
                                  (CHARDELETE.TTC 1)
                                   (WORDDELETE.TTC 2)
                                   (DELETE.TTC 3)
                                   (FUNCTIONCALL.TTC 4)
                                   (REDO.TTC 5)
                                   (UNDO.TTC 6)
                                   (CMD.TTC 7)
                                   (NEXT.TTC 8)
                                   (EXPAND.TTC 9)
                                   (CHARDELETE.FORWARD.TTC 10)
                                   (WORDDELETE.FORWARD.TTC 11)
                                   (PUNCT.TTC 20)
                                   (TEXT.TTC 21)
                                   (WHITESPACE.TTC 22))
                         (MACROS \TEDIT.MOUSESTATE \TEDIT.CHECK)
                         (RECORDS TEDITTERMCODE)
                         ;; Bits in the CHARTABLE that control line breaking, and what happens when a line is broken on this character (RMK:
                         ;; THESE DON'T SEEM TO BE USED)
                         (CONSTANTS (NOTBEFORE.LB 1)
                                                                          ; Must not break before this character (e.g. Japanese
                                                                          : right-paren)
                                 (NOTAFTER.LB 2)
                                                                          ; Must not break after this character (e.g. Japanese open-quote)
                                 (BEFORE.LB 4)
                                                                          ; OK to break before this character, provided it's OK to break ; after the prior char (true of most non-white-space)
                                 (AFTER.LB 8)
                                                                          ; OK to break after this char, if it's OK to break before the next
                                                                          ; one (true of most white space)
                                 (DISAPPEAR-IF-NOT-SPLIT.LB 16)
                                                                           This character shouldn't be rendered if it isn't the last char on
                                                                          ; the line (non-breaking hyphen has this)
                                 (NEWCHAR-IF-SPLIT.LB 32)
                                                                           Look this char up in *TEDIT-SPLITCHAR-HASH* if this IS the
                                                                          ; last character on a line, and render it as the char we found.
         (FNS \TEDIT.INTERRUPT.SETUP \TEDIT.MARKACTIVE \TEDIT.MARKINACTIVE \TEDIT.COMMAND.LOOP
               \TEDIT.COMMAND.RESET.SETUP)
         [INITVARS (TEDIT.INTERRUPTS '((2
                                               BREAK)
                                              ERROR)
                                            (7 HELP)
                                            (20 CONTROL-T]
         (VARS (| NIL))
         (GLOBALVARS | TEDIT.INTERRUPTS)
         (COMS
                                                                          ; Read-table Utilities
                (FNS \TEDIT.READTABLE \TEDIT.WORDBOUND.READTABLE TEDIT.GETSYNTAX TEDIT.SETSYNTAX TEDIT.GETFUNCTION
                     TEDIT.SETFUNCTION TEDIT.WORDGET TEDIT.WORDSET TEDIT.ATOMBOUND.READTABLE)
                [DECLARE%: DONTEVAL@LOAD DOCOPY (VARS (TEDIT.READTABLE (\TEDIT.READTABLE)) (TEDIT.WORDBOUND.READTABLE)
                (GLOBALVARS TEDIT.READTABLE TEDIT.WORDBOUND.READTABLE))
         [COMS
                                                                          : Wheelscroll
                (FILES (SYSLOAD FROM LISPUSERS)
                        WHEELSCROLL)
                (FNS \TEDIT.WHEELSCROLL)
                (GLOBALVARS WHEELSCROLLCHARCODES)
                (VARS (WHEELSCROLLCHARCODES (\TEDIT.WHEELSCROLL]
                                                                          : Clipboard
         (COMS
                (FNS \TEDIT.CLIPBOARD \TEDIT.COPYTOCLIPBOARD \TEDIT.EXTRACTTOCLIPBOARD \TEDIT.WRITE.SEL)
                [DECLARE%: EVAL@LOAD EVAL@COMPILE DONTCOPY (CONSTANTS (CLIPBOARDCODES (CHARCODE (meta, C meta, X
                                                                                                                    meta,c
                                                                                                                    meta, X]
                (P (\TEDIT.CLIPBOARD])
```

```
{MEDLEY} < library > tedit > TEDIT - COMMAND.; 1
                                                                                                                                Page 2
(DECLARE%: EVAL@COMPILE DONTCOPY
(DECLARE%: EVAL@COMPILE
(RPAQQ \SCRATCHLEN 64)
(CONSTANTS (\SCRATCHLEN 64))
(DECLARE%: EVAL@COMPILE
(RPAQQ MSPACE 153)
(RPAQQ NSPACE 152)
(RPAQO THINSPACE 159)
(RPAQO FIGSPACE 154)
(CONSTANTS (MSPACE 153)
        (NSPACE 152)
         (THINSPACE 159)
         (FIGSPACE 154))
;; FOLLOWING DEFINITIONS EXPORTED
(DECLARE%: EVAL@COMPILE
(RPAQQ NONE.TTC 0)
(RPAQO CHARDELETE.TTC 1)
(RPAOO WORDDELETE.TTC 2)
(RPAQQ DELETE.TTC 3)
(RPAQO FUNCTIONCALL.TTC 4)
(RPAQO REDO.TTC 5)
(RPAQQ UNDO.TTC 6)
(RPAQQ CMD.TTC 7)
(RPAQQ NEXT.TTC 8)
(RPAQQ EXPAND.TTC 9)
(RPAQQ CHARDELETE.FORWARD.TTC 10)
(RPAQQ WORDDELETE.FORWARD.TTC 11)
(RPAQQ PUNCT.TTC 20)
(RPAQQ TEXT.TTC 21)
(RPAQQ WHITESPACE.TTC 22)
(CONSTANTS (NONE.TTC 0)
         (CHARDELETE.TTC 1)
         (WORDDELETE.TTC 2)
(DELETE.TTC 3)
         (FUNCTIONCALL.TTC 4)
         (REDO.TTC 5)
(UNDO.TTC 6)
         (CMD.TTC 7)
(NEXT.TTC 8)
         (EXPAND.TTC 9)
(CHARDELETE.FORWARD.TTC 10)
         (WORDDELETE.FORWARD.TTC 11)
         (PUNCT.TTC 20)
         (TEXT.TTC 21)
         (WHITESPACE.TTC 22))
(DECLARE%: EVAL@COMPILE
(PUTPROPS \TEDIT.MOUSESTATE MACRO (BUTTON
                                             ;; Test to see if only the specified mouse button is down. DOES NOT call GETMOUSESTATE, so the
                                             ;; mouse-button info is the same as the last time it was called.
                                                   (SELECTQ (CAR BUTTON)
    (LEFT '(EQ LASTMOUSEBUTTONS 4))
    (MIDDLE '(EQ LASTMOUSEBUTTONS 1))
    (RIGHT '(EQ LASTMOUSEBUTTONS 2))
                                                         (SHOULDNT))))
```

```
(PUTPROPS \TEDIT.CHECK MACRO [ARGS (COND
                                             [ (AND (BOUNDP 'CHECK)
                                              (CONS 'PROGN (for I in ARGS as J on ARGS when (NOT (STRINGP I))
                                                                collect (LIST 'OR I (LIST 'HELP "TEdit consistency-check
                                                                                            failure [RETURN to continue]:
                                                                                            (COND
                                                                                                ((STRINGP (CADR J)))
                                                                                                (T (KWOTE I]
                                             (T (CONS COMMENTFLG ARGS])
(DECLARE%: EVAL@COMPILE
[ACCESSFNS TEDITTERMCODE ((TTCLASS (LOGAND DATUM 224)) (TTDECODE (LOGAND DATUM 31]
(DECLARE%: EVALGEOMPTLE
(RPAOO NOTBEFORE.LB 1)
(RPAQQ NOTAFTER.LB 2)
(RPAQQ BEFORE.LB 4)
(RPAQQ AFTER.LB 8)
(RPAQQ DISAPPEAR-IF-NOT-SPLIT.LB 16)
(RPAQQ NEWCHAR-IF-SPLIT.LB 32)
(CONSTANTS (NOTBEFORE.LB 1)
        (NOTAFTER.LB 2)
        (BEFORE.LB 4)
        (AFTER.LB 8)
        (DISAPPEAR-IF-NOT-SPLIT.LB 16)
        (NEWCHAR-IF-SPLIT.LB 32))
;; END EXPORTED DEFINITIONS
(DEFINEO
(\TEDIT.INTERRUPT.SETUP
                                                                          ; Edited 27-Mar-2024 15:27 by rmk
; Edited 22-Sep-2023 20:45 by rmk
  [LAMBDA (PROC FORCEOFF)
                                                                          (* jds "12-Sep-84 15:36")
    ;; Disarm any inconvenient interrupts, and save re-arming info on the window.
    [LET ((TEXTOBJ (TEXTOBJ PROC T)))
          (CL:WHEN TEXTOBJ
               (UNINTERRUPTABLY
                   [COND
                       ((AND FORCEOFF (PROCESSPROP PROC 'TEDIT.INTERRUPTS))
                                                                          ; There are disarmed interrupts; re-arm them.
                        (RESET.INTERRUPTS (PROCESSPROP PROC 'TEDIT.INTERRUPTS))
(PROCESSPROP PROC 'TEDIT.INTERRUPTS NIL))
                       ([AND (NOT FORCEOFF)
                              (NOT (PROCESSPROP PROC 'TEDIT.INTERRUPTS)
                                                                           There aren't any interrupts disarmed; go do it.
                        (PROCESSPROP PROC 'TEDIT.INTERRUPTS (RESET.INTERRUPTS (OR (AND TEXTOBJ (GETTEXTPROP
                                                                                                           TEXTOBJ
                                                                                                            INTERRUPTS))
                                                                                          TEDIT. INTERRUPTS)
                                                                         T]))]
    PROC1)
(\TEDIT.MARKACTIVE
                                                                          ; Edited 12-Jun-90 18:04 by mitani
  [LAMBDA (TEXTOBJ)
     (replace (TEXTOBJ EDITOPACTIVE) of TEXTOBJ with T)
    TEXTOBJ])
ATEDIT.MARKINACTIVE
                                                                          ; Edited 12-Jun-90 18:04 by mitani
  [LAMBDA (TEXTOBJ)
     (replace (TEXTOBJ EDITOPACTIVE) of TEXTOBJ with NIL)
    TEXTOBJ])
(\TEDIT.COMMAND.LOOP
  [LAMBDA (STREAM RTBL)
                                                                          ; Edited 21-Apr-2024 09:08 by rmk
                                                                           Edited 2-Apr-2024 15:35 by rmk
                                                                          ; Edited 20-Mar-2024 10:59 by rmk
```

```
Edited 15-Mar-2024 14:23 by rmk
                                                                        Edited 9-Mar-2024 11:35 by rmk
                                                                        Edited 24-Feb-2024 15:33 by rmk
                                                                        Edited 21-Feb-2024 14:49 by rmk
                                                                        Edited 18-Feb-2024 23:35 by rmk
                                                                        Edited 24-Dec-2023 09:50 by rmk
                                                                        Edited 22-Sep-2023 20:40 by rmk
Edited 16-Sep-2023 22:48 by rmk
                                                                       ; Edited 30-May-91 19:33 by jds
;; Main command loop for the TEDIT editor. Includes keyboard polling and command dispatch
(PROG ((TEXTOBJ (CL:IF (type? STREAM STREAM)
                       (fetch (TEXTSTREAM TEXTOBJ) of STREAM)
                       STREAM))
        SEL PANES)
       (TEXTOBJ! TEXTOBJ)
       (SETQ SEL (TEXTSEL TEXTOBJ))
       (SETO PANES (FGETTOBJ TEXTOBJ \WINDOW))
       (SETQ RTBL (OR RTBL (FGETTOBJ TEXTOBJ TXTRTBL)
                        TEDIT.READTABLE))
                                                                        Used to derive command characters from type-in
       (for P inpanes TEXTOBJ do (WINDOWPROP P 'PROCESS (THIS.PROCESS)))
                                                                        Add the pane to this process Wait until we really have the TTY before proceeding.
       (until (TTY.PROCESSP) do
                                   (DISMISS 250))
       (RESETLST
            (RESETSAVE (\TEDIT.COMMAND.RESET.SETUP (LIST TEXTOBJ PANES)
             (CH FN TCH (READSA (fetch READSA of %#CURRENTRDTBL#))
                  (TERMSA (OR (FGETTOBJ TEXTOBJ TXTTERMSA)
                                \PRIMTERMSA))
                  (TEDITSA (fetch READSA of RTBL))
                  (TEDITFNHASH (fetch READMACRODEFS of RTBL))
                  (LOOPFN (GETTEXTPROP TEXTOBJ 'LOOPFN))
(CHARFN (GETTEXTPROP TEXTOBJ 'CHARFN))
                  SELOPERATION SOURCESEL SELPANE)
             (DECLARE (SPECVARS SELOPERATION SOURCESEL SELPANE))
                                                                       ; Set by \TEDIT.BUTTONEVENTFN in MOUSE process
             (until (FGETTOBJ TEXTOBJ EDITFINISHEDFLG)
                do (ERSETQ (until (FGETTOBJ TEXTOBJ EDITFINISHEDFLG)
                                    (\WAITFORSYSBUFP 25)
                                                                       ; Await type-in or mouse action
                                     (until (OR SELOPERATION (NOT (FGETTOBJ TEXTOBJ EDITOPACTIVE)))
                                        do (\TEDIT.FLASHCARET TEXTOBJ)
                                            (BLOCK))
                                     (CL:UNLESS (FGETTOBJ TEXTOBJ EDITFINISHEDFLG)
                                         (CL:WHEN (FGETTOBJ TEXTOBJ TXTNEEDSUPDATE)
                                                                        We got here somehow with the window not in sync with the
                                                                       text. Run an update.
                                              (\TEDIT.SHOWSEL SEL NIL)
                                              (\TEDIT.UPDATE.SCREEN TEXTOBJ)
                                              (\TEDIT.FIXSEL SEL TEXTOBJ)
                                              (\TEDIT.SHOWSEL SEL T))
                                         (\TEDIT.FLASHCARET TEXTOBIL)
                                                                        Flash the caret periodically (BUT not while we're here only to
                                                                        cleanup and quit.)
                                         (FSETTOBJ TEXTOBJ EDITOPACTIVE T)
                                                                       ; Before starting to work, note that we're doing something.
                                         (CL:WHEN LOOPFN
                                              (ERSETQ (APPLY* LOOPFN (FGETTOBJ TEXTOBJ STREAMHINT))))
                                         ;; Process any pending selections from \TEDIT.BUTTONEVENTFN, here instead of in MOUSE
                                         ;; process
                                         (SELECTQ (PROG1 SELOPERATION (SETQ SELOPERATION NIL))
                                               (NORMAL (CL:WHEN (FGETSEL SOURCESEL SET)
                                                             (SETQ SEL (\TEDIT.COPYSEL SOURCESEL SEL))
                                                                        SOURCESEL is new SEL selection
                                                             (FSETTOBJ TEXTOBJ CARETLOOKS
                                                                                                TEDIT.GET.INSERT.CHARLOOKS
                                                                                                TEXTOBJ SEL))
                                                             (\TEDIT.SHOWSEL SEL T)
                                                                       ; Move source to SEL
                                               (MOVE
                                                      (TEDIT.MOVE SOURCESEL SEL))
                                               (COPY
                                                                       ; Copy source to SEL.
                                                      (TEDIT.COPY SOURCESEL SEL))
                                               (COPYLOOKS
                                                                       ; Copy source-looks to SEL
                                                           (if (EQ 'PARA (GETSEL SOURCESEL SELKIND))
    then (TEDIT.COPY.PARALOOKS TEXTOBJ SOURCESEL SEL)
                                                              else (TEDIT.COPY.LOOKS TEXTOBJ SOURCESEL SEL)))
                                               (DELETE
                                                                       ; Delete CTRL selection
                                                        (\TEDIT.DELETE TEXTOBJ SOURCESEL NIL SELPANE))
                                              NIL)
                                         ;; Handle user type-in
                                         [while (\SYSBUFP)
```

do (SETQ CH (\GETKEY))

```
(CL:WHEN CHARFN
                                                                           ; Give the OEM user control for each character typed.
                                                          (SETQ TCH (APPLY* CHARFN (FGETTOBJ TEXTOBJ STREAMHINT)
                                                                             CH))
                                                         ;; And let him return one of NIL for 'ignore this char', T for 'leave it be' or a new
                                                         ;; charcode.
                                                          (OR (EQ TCH T)
                                                              (SETQ CH TCH)))
                                                     (SELECTC (AND CH (\SYNCODE TEDITSA CH))
                                                          (CHARDELETE.TTC
                                                                            Backspace handler: Remove the character just before
                                                                            SEL:CH#.
                                                                (\TEDIT.CHARDELETE TEXTOBJ SEL)
                                                                (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                          (CHARDELETE.FORWARD.TTC
                                                                (\TEDIT.CHARDELETE.FORWARD TEXTOBJ SEL)
                                                                (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                          (WORDDELETE.TTC
                                                               (\TEDIT.WORDDELETE TEXTOBJ SEL)
(\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                          (WORDDELETE.FORWARD.TTC
                                                                (\TEDIT.WORDDELETE.FORWARD TEXTOBJ SEL)
                                                                (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                                           ; DEL Key handler: Delete the selected characters
                                                          (DELETE.TTC
                                                                        (\TEDIT.DELETE TEXTOBJ SEL)
(\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                                           ; He hit the CANCEL key, so go UNDO something
                                                          (UNDO.TTC
                                                                      (TEDIT.UNDO TEXTOBJ)
                                                                      (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                          (REDO.TTC
                                                                           ; He hit the REDO key, so go REDO something
                                                                      (TEDIT.REDO TEXTOBJ)
                                                                      (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                          (FUNCTIONCALL.TTC
                                                                            ; This is a special character -- it calls a function
                                                                (CL:WHEN [SETQ FN (CAR (FETCH MACROFN
                                                                                              OF (GETHASH CH TEDITFNHASH)
                                                                           ; There IS a command function to be called.
                                                                    (APPLY* FN (FGETTOBJ TEXTOBJ STREAMHINT)
                                                                            TEXTOBJ SEL)
                                                                            After a user function (that is not wheelscroll) no more
                                                                            ; blue-pending-delete
                                                                    ;; We shouldn't have to test for special characters here, there should be a
                                                                    ;; more general way of marking them
                                                                    (CL:UNLESS (OR (MEMB CH WHEELSCROLLCHARCODES)
                                                                                      (MEMB CH CLIPBOARDCODES))
                                                                            The FNs handled the selection, should preserve the highlighting
                                                                         (\TEDIT.SHOWSEL SEL NIL)
                                                                         (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ)
                                                                         (\TEDIT.SHOWSEL SEL T))))
                                                                            Move to the next blank to fill in. For now, blanks are delimited
                                                          (NEXT.TTC
                                                                            by >>...<<
                                                                      (TEDIT.NEXT TEXTOBJ)
                                                                           ; EXPAND AN ABBREVIATION
                                                          (EXPAND.TTC
                                                                        (\TEDIT.ABBREV.EXPAND (FGETTOBJ TEXTOBJ STREAMHINT
                                                          (SELECTC (AND TERMSA CH (fetch TERMCLASS of (\SYNCODE TERMSA CH)))
                                                               (CHARDELETE.TC
                                                                            ; Backspace handler: Remove the character just before ; SEL:CH#.
                                                                     (\TEDIT.CHARDELETE TEXTOBJ SEL)
                                                                     (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                                (WORDDELETE.TC
                                                                           ; Back-WORD handler
                                                                     (\TEDIT.WORDDELETE TEXTOBJ)
                                                                     (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                                (LINEDELETE.TC
                                                                            ; DEL Key handler: Delete the selected characters
                                                                     (\TEDIT.DELETE TEXTOBJ SEL)
                                                                     (\TEDIT.RESET.EXTEND.PENDING.DELETE SEL TEXTOBJ))
                                                                (CL:WHEN CH
                                                                           ; Any other key: insert the character.
                                                                    (\TEDIT.INSERT CH SEL TEXTOBJ))])
                                         (FSETTOBJ TEXTOBJ EDITOPACTIVE NIL)))
                        (FSETTOBJ TEXTOBJ EDITOPACTIVE NIL))))])
(\TEDIT.COMMAND.RESET.SETUP
  [LAMBDA (TEXT&WIND STARTING)
                                                                            Edited 17-Mar-2024 18:54 by rmk
                                                                            Edited 22-Feb-2024 23:14 by rmk
                                                                            Edited 5-Oct-2023 22:41 by rmk
                                                                            Edited 22-Sep-2023 20:41 by rmk
Edited 16-Sep-2023 22:30 by rmk
```

Edited 5-Nov-2022 10:41 by rmk

```
; Edited 12-Jun-90 18:04 by mitani
```

```
;; If STARTING is T, set up the reset-driven connections and values for editing; otherwise, break links and reset values for non-editing
    (PROG ((TEXTOBJ (CAR TEXT&WIND))
            (PANES (CADR TEXT&WIND))
            (OTTYWINDOW (CADDR TEXT&WIND))
            (OTTYENTRYFN (CADDDR TEXT&WIND))
            (OTTYEXITFN (CAR (CDDDDR TEXT&WIND)))
            (OWINDOW (CADR (CDDDDR TEXT&WIND)))
            TTYWINDOW)
           [COND
                                                                           We're going INTO the command loop. Set up all the stuff
               (STARTING
                       (FSETTOBJ TEXTOBJ EDITOPACTIVE T)
                                                                           Mark us busy until we're set up, so that nobody tries any funny
                                                                           stuff.
                       (SETQ OWINDOW (PROCESSPROP (THIS.PROCESS)
                                                WINDOW
                                                                           ; Attach the process to this window.
                                                (CAR PANES)))
                       (\TEDIT.INTERRUPT.SETUP (THIS.PROCESS))
                                                                           Disarm all interrupt chars, re-arm them when we leave the edit
                       (SETQ OTTYEXITFN (PROCESSPROP (THIS.PROCESS)
                                                   TTYEXTTEN
                                                   '\TEDIT.PROCEXITFN)); Set up functions for getting in and out of the edit process
                       (SETQ OTTYENTRYFN (PROCESSPROP (THIS.PROCESS)
                                                    'TTYENTRYFN
                                                    '\TEDIT.PROCENTRYFN))
                       (CL:UNLESS (EQ (GETTEXTPROP TEXTOBJ 'TTYWINDOW)
                                                                          ; He can suppress the ability to copy-select things into this
                                        'DON'T)
                                                                           ; window if he wants....
                            (SETQ TTYWINDOW (OR (GETTEXTPROP TEXTOBJ 'TTYWINDOW)
                                                   (CREATEW DEFAULTTYREGION "TTY Window for TEdit" NIL T)))
                            (SETQ OTTYWINDOW (TTYDISPLAYSTREAM TTYWINDOW))
                            (PROCESSPROP (THIS.PROCESS)
                            'TEDITTTYWINDOW TTYWINDOW)
(WINDOWPROP TTYWINDOW 'PROCESS NIL)
                           [WINDOWPROP TTYWINDOW 'CLOSEFN (FUNCTION (LAMBDA (WW)
                                                                              (WINDOWPROP WW 'PROCESS NIL]
                                                                            So that there isn't a circularity in the PROCESS ->
                                                                           TTYWINDOW -> PROCESS
                            (WINDOWPROP TTYWINDOW 'COPYINSERTFN (FUNCTION \TEDIT.COPYINSERTFN))
                            (WINDOWPROP TTYWINDOW 'MAINWINDOW (CAR PANES)))
                       (FSETTOBJ TEXTOBJ TXTEDITING T)
                                                                           Tell TEdit that this document is actively being edited.
                                                                           ; Mark us un-busy so life can go on.
                       (FSETTOBJ TEXTOBJ EDITOPACTIVE NIL))
               (T
                                                                          ; Coming OUT OF the command loop -- reset everything
                  (PROCESSPROP (THIS.PROCESS)
                          'WINDOW
                          (CAR PANES))
                                                                          ; Detach the window from the edit process, to prevent circularity
                                                                           : there
                  (WINDOWPROP (CAR PANES)
                           PROCESS NIL)
                  (\TEDIT.INTERRUPT.SETUP (THIS.PROCESS)
                                                                          ; Re-arm the interrupts we turned off coming in.
                          T)
                  (CL:WHEN [AND (TXTFILE TEXTOBJ)
                                  (NOT (fetch (TEXTWINDOW CLOSINGFILE) of (CAR PANES]
                                                                           Remember to close the file we were editing (Only if the window
                                                                           function isn't closing it.)
                       (CLOSEF? (TXTFILE TEXTOBJ))
                                                                           Let anyone else who wants to close the file.
                       (replace (TEXTWINDOW CLOSINGFILE) of (CAR PANES) with NIL))
                  (PROCESSPROP (THIS.PROCESS)
                          'TTYEXITFN OTTYEXITFN)
                  (PROCESSPROP (THIS.PROCESS)
                          'TTYENTRYFN OTTYENTRYFN)
                  (FSETTOBJ TEXTOBJ TXTHISTORY NIL)
                                                                           ; To prevent circularities arising from the need to remember
                                                                           ; textobjs in the history list.
                  (FSETTOBJ TEXTOBJ SELPANE NIL)
                  (FSETTOBJ TEXTOBJ TXTEDITING NIL)
                                                                           ; Tell TEdit that this document is NO LONGER actively being
                                                                           edited.
                  (CL:UNLESS (EQ (GETTEXTPROP TEXTOBJ 'TTYWINDOW)
                                    'DON'T)
                                                                           He can suppress the ability to copy-select things into this
                                                                          ; window if he wants....
                       (TTYDISPLAYSTREAM OTTYWINDOW)
                       (PROCESSPROP (THIS.PROCESS)
                              'TEDITTTYWINDOW NIL))]
           (RETURN (LIST TEXTOBJ PANES OTTYWINDOW OTTYENTRYFN OTTYEXITFN OWINDOW])
(RPAQ? TEDIT.INTERRUPTS '((2 BREAK)
                              (5 ERROR)
                              (7 HELP)
                              (20 CONTROL-T)))
(RPAQQ | NIL)
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS | TEDIT.INTERRUPTS)
```

```
{MEDLEY} < library > tedit > TEDIT - COMMAND.; 1
                                                                                                                          Page 7
:: Read-table Utilities
(DEFINEO
(\TEDIT.READTABLE
                                                                          ; Edited 24-Dec-2023 09:54 by rmk
  [LAMBDA NIL
                                                                          Edited 20-Apr-2018 07:59 by rmk:
                                                                          (* jds "12-Sep-86 13:48")
    ;; Create a TEdit read-table, to control which characters have what functions and call which commands
    (LET [(RTBL (create READTABLEP
                          READMACRODEFS _ (HASHARRAY 50]
          ;; CHARDELETE.FORWARD replaces WORDDELETE on ^W
          (for CH in (CHARCODE (BS ^A ^W DEL %#A %#B %#C ESC)) as CL
             in (CONSTANT (LIST CHARDELETE.TTC CHARDELETE.TTC CHARDELETE.FORWARD.TTC DELETE.TTC UNDO.TTC NEXT.TTC
                                  CMD.TTC REDO.TTC))
                                                                          ; Set up the default syntax classes for command characters
                 (\SETSYNCODE (fetch READSA of RTBL)
                         CH CL))
          (for CH in (CHARCODE (^X)) as FN in '(\TEDIT.ABBREV.EXPAND) do
                                                                          ; Set up the default function-calling characters (^X to expand
                                                                          abbrevs for now
                                                                                (TEDIT.SETFUNCTION CH FN RTBL))
          (TEDIT.SETFUNCTION (CHARCODE ^O)
                  (FUNCTION GET.OBJ.FROM.USER)
                                                                          ; And for image object capture
                  RTBL)
          RTBL1)
(\TEDIT.WORDBOUND.READTABLE
                                                                          ; Edited 22-May-92 15:10 by jds
  [LAMBDA NIL
     ;; Create a readtable which will let TEdit find word boundaries. A word boundary is any point where the SYNCODE of the adjacent characters is
    ;; different
    (PROG [(RTBL (create READTABLEP
                           READMACRODEFS
                                              (HARRAY 50]
            (for CH from 0 to 255 do (\SETSYNCODE (fetch READSA of RTBL)
                                              CH PUNCT.TTC))
     ;; By default, every character except those noted below is a punctuation character
            (for CH from (CHARCODE A) to (CHARCODE Z) do (\SETSYNCODE (fetch READSA of RTBL)
                                                                     CH TEXT.TTC))
                                                                          ; Upper case alpha
            (for CH from (CHARCODE a) to (CHARCODE z) do (\SETSYNCODE (fetch READSA of RTBL)
                                                                     CH TEXT.TTC))
                                                                          ; Lower case alpha
            (for CH from (CHARCODE 0) to (CHARCODE 9) do (\SETSYNCODE (fetch READSA of RTBL)
                                                                     CH TEXT.TTC))
                                                                          ; And digits are text characters
     ;; European chars and accents are text characters:
           (for CH from (CHARCODE "361,41") to (CHARCODE "361,376") do (\SETSYNCODE (fetch READSA of RTBL)
                                                                                      CH TEXT.TTC))
            (for CH from (CHARCODE "0,301") to (CHARCODE "0,317") do (\SETSYNCODE (fetch READSA of RTBL)
                                                                                   CH TEXT.TT
            (for CH from (CHARCODE "0,341") to (CHARCODE "0,376") do (\SETSYNCODE (fetch READSA of RTBL)
                                                                                   CH TEXT.TTC))
            (for CH in (CHARCODE (CR SPACE TAB ^L)) do (\SETSYNCODE (fetch READSA of RTBL)
                                                                   CH WHITESPACE.TTC))
                                                                          : And these are white space
            (for CH in (LIST MSPACE NSPACE THINSPACE FIGSPACE) do
                                                                       (\SETSYNCODE (fetch READSA of RTBL)
                                                                                CH TEXT.TTC))
            (RETURN RTBL])
(TEDIT.GETSYNTAX
                                                                          ; Edited 24-Dec-2023 09:47 by rmk
  [LAMBDA (CH TABLE)
                                                                          Edited 31-Mar-87 10:01 by jds
                                                                          ; Find TEdit's interpretation of a given character
    (SELECTC (\SYNCODE [fetch READSA of (COND
                                                                         ; If given a TEXTOBJ in place of a read table, coerce it to the
                                                ((type? TEXTOBJ TABLE)
                                                                          ; read table for that edit session
                                                 (OR (fetch (TEXTOBJ TXTRTBL) of TABLE)
                                                     TEDIT.READTABLE))
```

```
; If given a TEXTOBJ in place of a read table, coerce it to the
                         ((type? STREAM TABLE)
                                                    ; read table for that edit session
                          (OR (fetch (TEXTOBJ TXTRTBL) of (fetch (TEXTSTREAM TEXTOBJ) of TABLE))
                              TEDIT.READTABLE))
                         (T (OR TABLE TEDIT.READTABLE]
(COND
   ((LITATOM CH)
                                                    ; Symbols are converted to numeric charcodes
    (APPLY* 'CHARCODE CH))
   ((STRINGP CH)
                                                    ; As are string char-names
    (APPLY* 'CHARCODE CH))
   (T CH)))
```

(TEDIT.SETFUNCTION

```
Set TEDITs (read) table so that FN is called whenever
                                                                            CHARCODE is typed.
                                                                           ; If FN is NIL, make the character be normal again.
    [SETQ RTBL (COND
                     ((type? TEXTOBJ RTBL)
                                                                           ; If given a TEXTOBJ in place of a read table, coerce it to the
                                                                           read table for that edit session
                      (fetch (TEXTOBJ TXTRTBL) of RTBL))
                     ((type? STREAM RTBL)
                                                                           ; If given a TEXTOBJ in place of a read table, coerce it to the
                                                                           ; read table for that edit session
                      (fetch (TEXTOBJ TXTRTBL) of (fetch (TEXTSTREAM TEXTOBJ) of RTBL)))
                        (OR RTBL TEDIT.READTABLE]
     (\SETSYNCODE (fetch READSA of RTBL)
             (SETO CHARCODE (COND
                                  ((LITATOM CHARCODE)
                                   (APPLY* 'CHARCODE CHARCODE))
                                  ((STRINGP CHARCODE)
(APPLY* 'CHARCODE CHARCODE))
                                  (T CHARCODE)))
             (COND
                                                                           ; He gave us a function to call. Set up the syntax so it IS called.
                (FN
                     FUNCTIONCALL.TTC)
                                                                           ; He gave us a function of NIL, meaning 'turn it off' . Cause this
                (T
                                                                            character to become normal.
                   NONE.TTC)))
                                                                           ; Mark the character as invoking a function
     (OR (fetch READMACRODEFS of RTBL)
     (replace READMACRODEFS of RTBL with (HARRAY 50)))
(PUTHASH CHARCODE (CREATE READMACRODEF
                                                                           : Make sure there's a hash table to store the function in.
                                 MACROTYPE _ 'TEDIT
                                 MACROFN
                                             (LIST FN))
             (fetch READMACRODEFS of RTBL])
(TEDIT.WORDGET
  [LAMBDA (CH TABLE)
                                                                           (* jds "27-MAY-83 13:24")
    (\SYNCODE (fetch READSA of (OR TABLE TEDIT.WORDBOUND.READTABLE))
             (COND
                ((SMALLP CH))
                (T (CHCON1 CH])
(TEDIT.WORDSET
  [LAMBDA (CHARCODE CLASS TABLE)
                                                                             jds " 1-JUN-83 12:23"
                                                                             SETS TEDIT-STYLE SYNTAX BITS IN A TERMTABLE)
     (\SETSYNCODE (fetch READSA of (OR TABLE TEDIT.WORDBOUND.READTABLE))
             (COND
                ((SMALLP CHARCODE))
                (T (CHCON1 CHARCODE)))
             (COND
                ((FIXP CLASS))
                (T (SELECTQ CLASS
                         (PUNCTUATION PUNCT.TTC)
                         (WHITESPACE WHITESPACE.TTC)
                         (TEXT TEXT.TTC)
                         TEXT.TTC1)
(TEDIT.ATOMBOUND.READTABLE
                                                                            Edited 25-Dec-2023 13:10 by rmk
  [LAMBDA (READTABLE)
                                                                           ; Edited 5-Dec-2023 23:47 by rmk
    ;; A wordbound table that approximates the unquoted OTHER characters of Lisp atoms as defined by READTABLE or the current readtable. This
    ;; is specified as the BOUNDTABLE for Lisp source code edits. Not perfect, but not bad.
    ;; Could cache this for common readtables (interlisp, commonlisp)
    (LET ((TABLE (\TEDIT.WORDBOUND.READTABLE))))
                                                                           ; \TEDIT.WORDBOUND.READTABLE creates a new one each
                                                                           : time.
          (for code IN (GETSYNTAX 'OTHER (OR READTABLE *READTABLE*)) do (TEDIT.WORDSET code 'TEXT TABLE))
           (for code IN (GETSYNTAX 'BREAK (OR READTABLE *READTABLE*)) do (TEDIT.WORDSET code 'PUNCTUATION TABLE))
          (TEDIT.WORDSET (CHARCODE %:)
                   'TEXT TABLE)
          TABLE])
(DECLARE%: DONTEVAL@LOAD DOCOPY
(RPAQ TEDIT.READTABLE (\TEDIT.READTABLE))
(RPAQ TEDIT.WORDBOUND.READTABLE (\TEDIT.WORDBOUND.READTABLE))
(DECLARE%: DOEVAL@COMPILE DONTCOPY
(GLOBALVARS TEDIT.READTABLE TEDIT.WORDBOUND.READTABLE)
;; Wheelscroll
```

; Edited 21-Apr-2024 11:51 by rmk ; Edited 2-Apr-2024 17:01 by rmk ; Edited 18-Apr-2018 00:02 by rmk:

;; If CLIPBOARD is loaded, this copies the characters in the current selection to the clipboard (SEL argument is ignored). .

(CL:WHEN (FGETD (FUNCTION PUTCLIPBOARD)) (SETQ TSTREAM (TEXTSTREAM (OR TSTREAM (TTY.PROCESS)) (CL:WHEN TSTREAM (PUTCLIPBOARD TSTREAM (FUNCTION \TEDIT.WRITE.SEL)) (CL:WHEN EXTRACT (TEDIT.DELETE TSTREAM))))])

(\TEDIT.EXTRACTTOCLIPBOARD

(\TEDIT.COPYTOCLIPBOARD TSTREAM TEXTOBJ SEL T])

)

)

```
(\TEDIT.WRITE.SEL
  [LAMBDA (TSTREAM STREAM)
                                                                                 ; Edited 21-Apr-2024 11:55 by rmk
    ;; Writes the selected characters in TSTREAM to STREAM.
    ;; If there are no image objects, this is equivalent to (PRIN3 (TEDIT.SEL.AS.STRING ...)), but that would trip over image objects. Image objects
    ;; could be skipped, or as here, represented as the OBJECTBYTE or described in some way.
    ;; For Medley-to-Medley copy/paste we could also create a local tmp stream that shadows the system clipboard, and apply the PUTFN to that
    ;; stream. Then copy/paste could be used to move image objects around with a single Medley or perhaps across Medley's (if the GETFN is
    ;; available).
    (LET* ((TEXTOBJ (TEXTOBJ TSTREAM))
             (SEL (FGETTOBJ TEXTOBJ SEL)))
            (CL:WHEN (IGREATERP (GETSEL SEL DCH)
                 ;; This could be run by setting the fileptr and doing BIN's. This way we don't manipulate TSTREAM's file position FWIW.
                 (for I CODE PRE (OBJECTBYTE _ (GETTEXTPROP TEXTOBJ 'OBJECTBYTE))
    (NOBJECTS _ 0) from (GETSEL SEL CH#) to (SUB1 (GETSEL SEL CHLIM))
    while (SETQ CODE (TEDIT.NTHCHARCODE TSTREAM I))
    do (if (CHARCODEP CODE)
                             then (PRINTCCODE CODE STREAM)
                           elseif (IMAGEOBJP CODE)
                             then (add NOBJECTS 1)
                                    (if OBJECTBYTE
                                      then (PRINTCCODE OBJECTBYTE STREAM)
else (PRIN3 "{" STREAM)
                                           (PRIN4 (IMAGEOBJPROP CODE 'GETFN)
                                                    STREAM)
                                           (CL:WHEN (SETQ PRE (APPLY* (OR (IMAGEOBJPROP CODE 'PREPRINTFN)
                                                                                   (FUNCTION NILL))
                                                                            PRE CODE))
                                                 (PRIN3 ": " STREAM)
                                                 (PRIN4 PRE STREAM))
                                           (PRIN3 "}" STREAM))
                           else (ERROR "UNRECOGNIZED TEDIT CHARACTER" CODE))
                     finally (CL:WHEN (IGREATERP NOBJECTS 0)
                                 (TEDIT.PROMPTPRINT TSTREAM (CONCAT "Note:
                                                                                      Selection contains " NOBJECTS " image
                                                                            object" (CL:IF (EQ NOBJECTS 1)
                                                                                           "s"))
                                          T))))])
(DECLARE%: EVAL@LOAD EVAL@COMPILE DONTCOPY
(DECLARE%: EVAL@COMPILE
(RPAQ CLIPBOARDCODES (CHARCODE (meta, C meta, X meta, c meta, X)))
[CONSTANTS (CLIPBOARDCODES (CHARCODE (meta, C meta, X meta, c meta, X]
(\TEDIT.CLIPBOARD)
```

{MEDLEY}library>tedit>TEDIT-COMMAND.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:22:53 --

	FUNCTION INDEX	
TEDIT.ATOMBOUND.READTABLE 9 TEDIT.GETFUNCTION 8 TEDIT.GETSYNTAX 7 TEDIT.SETFUNCTION 8 TEDIT.SETSYNTAX 8 TEDIT.WORDGET 9 TEDIT.WORDSET 9	\TEDIT.CLIPBOARD	\TEDIT.MARKINACTIVE
	CONSTANT INDEX	
AFTER.LB	FIGSPACE 2 FUNCTIONCALL.TTC 2 MSPACE 2 NEWCHAR-IF-SPLIT.LB 3 NEXT.TTC 2 NONE.TTC 2 NOTAFTER.LB 3 NOTBEFORE.LB 3 NSPACE 2	PUNCT.TTC 2 REDO.TTC 2 TEXT.TTC 2 THINSPACE 2 UNDO.TTC 2 WHITESPACE.TTC 2 WORDDELETE.FORWARD.TTC 2 WORDDELETE.TTC 2 \SCRATCHLEN 2
	VARIABLE INDEX	
	TEDIT.READTABLE	WHEELSCROLLCHARCODES10
	MACRO INDEX	
\TEDIT.CHECK3	\TEDIT.MOUSESTATE2	
	RECORD INDEX	
TEDITTERMCODE3		