

File created: 5-Mar-2025 20:52:33 {WMEDLEY}<library>TEDIT>TEDIT-MENU.;455

edit by: rmk

changes to: (FNS \TEDIT.EXPANDEDMENU.ACTIONFN)

previous date: 19-Feb-2025 13:27:11 {WMEDLEY}<library>TEDIT>TEDIT-MENU.;454

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(RPAQQ **TEDIT-MENUCOMS**

[
;; TEdit-specific menus and support

```
[DECLARE%: DOEVAL@COMPILE DONTCOPY (RECORDS MARGINBAR)
  (EXPORT (CONSTANTS (PTSPERPICA 12)
                (PTSPERINCH 72)
                (PICASPERINCH 6)
                (MICASPERINCH 2540)
                (PTSPERCM (FQUOTIENT PTSPERINCH 2.54))
                (PTSPERMICA (FQUOTIENT PTSPERINCH MICASPERINCH))
                (MICASPERPOINT (FQUOTIENT MICASPERINCH PTSPERINCH))
  ;;
```

;;

```
[COMS                                     ; MARGINBAR
(FNS DRAWMARGINSCALE MARGINBAR MARGINBAR.CREATE MB.MARGINBAR.BUTTONEVENTFN
  MB.MARGINBAR.SELFN.TABS MB.MARGINBAR.SELFN.TABS.KIND MARGINBAR.GETSTATEFN
  MARGINBAR.SETSTATEFN MARGINBAR.NEUTRALIZE MARGINBAR.LOOKS MB.MARGINBAR.SIZEFN
  MB.MARGINBAR.DISPLAYFN MDESCALE MSCALE MB.MARGINBAR.SHOWTAB MB.MARGINBAR.TABTRACK
  MARGINBAR.INIT \TEDIT.PARALOOKS.TO.MARBAR)
(BITMAPS \TEDIT.LEFTTAB \TEDIT.CENTERTAB \TEDIT.RIGHTTAB \TEDIT.DECIMALTAB \TEDIT.DOTTED.LEFTTAB
  \TEDIT.DOTTED.CENTERTAB \TEDIT.DOTTED.RIGHTTAB \TEDIT.DOTTED.DECIMALTAB
  TEDIT.EXTENDEDRIGHTMARK)
(DECLARE%: DONTEVAL@LOAD DOCOPY (P (MARGINBAR.INIT])
(COMS (FNS \TEDIT.MENU.START \TEDIT.MENU.BUTTONEVENTFN)
  (BITMAPS TEXTMENUICON TEXTMENUICONMASK))
```

;; Generic support for Tedit menus

```
(FNS \TEDIT.MENU.CREATE \TEDIT.MENU.PARSE \TEDIT.MENU.NEUTRALIZE \TEDITMENU.RECORD.UNFORMATTED)
```

;;

;;

;; EXPANDEDMENU

```
(FNS \TEDIT.EXPANDEDMENU.CREATE \TEDIT.EXPANDEDMENU.START \TEDIT.EXPANDEDMENU.FN
  \TEDIT.EXPANDEDMENU.ACTIONFN TEDIT.MENUSTREAM)
```

;;

;;

;; PARAMENU

```
(FNS \TEDIT.PARAMENU.CREATE \TEDIT.PARAMENU.START \TEDIT.APPLY.PARALOOKS \TEDIT.SHOW.PARALOOKS
  \TEDIT.PARAMENU.FILLIN)
```

;;

;;

;; CHARMENU

```
[INITVARS (TEDIT.FONTDEVICES ' (DISPLAY PDF POSTSCRIPT])
(FNS \TEDIT.CHARMENU.CREATE \TEDIT.CHARMENU.START \TEDIT.CHARMENU.SPEC \TEDIT.CHARMENU.PARSE
  \TEDIT.CHARMENU.FILLIN \TEDIT.SHOW.CHARLOOKS \TEDIT.APPLY.CHARLOOKS \TEDIT.OFFSETTYPE.STATEFN
  \TEDIT.OTHER.STATECHANGEFN \TEDIT.OTHER.SELECTFN)
```

;;

;;

;; PAGEMENU

```
(FNS \TEDIT.PAGEMENU.CREATE \TEDIT.SHOW.PAGELOOKS \TEDIT.PAGEMENU.FILLIN \TEDIT.PAGEREGION.UNPARSE
  \TEDIT.APPLY.PAGELOOKS \TEDIT.CHANGE.PAGELOOKS \TEDIT.PAGEMENU.CHARLOOKS.STATEFN)
(FNS \TEDIT.PAGEMENU.CREATE.HEADINGS \TEDIT.PAGEMENU.HEADINGS.SETSTATEFN
  \TEDIT.PAGEMENU.HEADINGS.STATEFN)
```

```
(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVERS (ADDVARS (NLAMA)
  (NLAML)
  (LAMA]))
```

;; TEdit-specific menus and support

```
(DECLARE%: DOEVAL@COMPILE DONTCOPY
```

```
(DECLARE%: EVAL@COMPILE
```

```
[RECORD MARGINBAR (MARL1 MARLN MARR MARTABS MARUNIT MARTABTYPE)
  (TYPE? (AND (IMAGEOBJP DATUM)
    (EQ (IMAGEOBJPROP DATUM 'DISPLAYFN)
      'MB.MARGINBAR.DISPLAYFN])
  )
```

;; FOLLOWING DEFINITIONS EXPORTED

(DECLARE%: EVAL@COMPILE

(RPAQQ **PTSPERPICA** 12)

(RPAQQ **PTSPERINCH** 72)

(RPAQQ **PICASPERINCH** 6)

(RPAQQ **MICASPERINCH** 2540)

(RPAQ **PTSPERCM** (FQUOTIENT PTSPERINCH 2.54))

(RPAQ **PTSPERMICA** (FQUOTIENT PTSPERINCH MICASPERINCH))

(RPAQ **MICASPERPOINT** (FQUOTIENT MICASPERINCH PTSPERINCH))

(CONSTANTS (PTSPERPICA 12)
(P TSPERINCH 72)
(P ICASPERINCH 6)
(M ICASPERINCH 2540)
(P TSPERCM (FQUOTIENT PTSPERINCH 2.54))
(P TSPERMICA (FQUOTIENT PTSPERINCH MICASPERINCH))
(M ICASPERPOINT (FQUOTIENT MICASPERINCH PTSPERINCH)))
)
)

:: END EXPORTED DEFINITIONS

::

:: MARGINBAR

(DEFINEQ

(DRAWMARGINSCALE

[LAMBDA (W UNIT)

; Edited 20-Nov-2023 14:49 by rmk
; Edited 12-Jun-90 18:59 by mitani

:: Draw the margin-bar scale -- the markings across the bottom of the margin bar that show you the margin values. Draws the scale in window W,
according to UNIT = 1 for points, or 12 for picas.

(PROG ((WREG (DSPCLIPPINGREGION NIL W))
(OLDOP (DSOPERATION 'REPLACE W)))
(DSPFILL (create REGION
LEFT _ 0
BOTTOM _ 0
WIDTH _ (fetch (REGION WIDTH) of WREG)
HEIGHT _ 24)
WHITESHADE
'REPLACE W) ; CLEAR IT OUT FIRST.
(SELECTQ UNIT ; Straight Points
(1 [for X from 4 by 3 to (fetch (REGION WIDTH) of WREG)
do ; Put a tick every 3 points, with a number every inch.
(COND
((ZEROP (IREMAINDER (IDIFFERENCE X 4)
72))
(BLTSHADE BLACKSHADE W X 8 1 16 'REPLACE)
(MOVETO (IDIFFERENCE X (LRSH (STRINGWIDTH (IDIFFERENCE X 4))
1))
10 W)
(PRIN1 (IDIFFERENCE X 4)
W))
(T (BLTSHADE BLACKSHADE W X 20 1 4 'REPLACE])
; Picas
(12 (for X from 4 by 12 to (fetch (REGION WIDTH) of WREG) as NOMX from 0
do ; Put a tick every half-pica, with a number every inch.
[COND
((ZEROP (IREMAINDER NOMX 6))
(BLTSHADE BLACKSHADE W X 8 1 16 'REPLACE)
(MOVETO (IDIFFERENCE X (LRSH (STRINGWIDTH NOMX)
1))
10 W)
(PRIN1 NOMX W))
(T (BLTSHADE BLACKSHADE W X 20 1 4 'REPLACE])
(BLTSHADE BLACKSHADE W (IPLUS X 6)
22 1 2 'REPLACE)))
NIL)
(BLTSHADE BLACKSHADE W 4 23 (fetch (REGION WIDTH) of WREG)
1
'REPLACE)
(MOVETO 0 0 W)
(RELDRAWTO (IDIFFERENCE (fetch (REGION WIDTH) of WREG)
2)
0 1 'PAINT W)
(RELDRAWTO 0 (IDIFFERENCE (fetch (REGION HEIGHT) of WREG)
2))

```

1
'PAINT W)
(RELDRAWTO (IMINUS (IDIFFERENCE (fetch (REGION WIDTH) of WREG)
2))
0 1 'PAINT W)
(RELDRAWTO 0 (IMINUS (IDIFFERENCE (fetch (REGION HEIGHT) of WREG)
2))
1
'PAINT W)
(DSPOPERATION OLDOP W])

```

(MARGINBAR

```
[LAMBDA (W L1 LN R TABS UNIT UPDATE RIGHTLIM)
```

```

; Edited 21-Oct-2024 00:26 by rmk
; Edited 23-Jul-2024 00:41 by rmk
; Edited 20-Nov-2023 20:34 by rmk
; Edited 2-Oct-2022 00:01 by rmk
; Edited 9-Sep-2022 22:38 by rmk
; Edited 12-Jun-90 18:59 by mitani
; Given a set of margins and a unit, show the margin bar properly

```

```

(PROG ((OLDOP (DSPOPERATION 'ERASE W))
(SCALEDL1 (MSCALE L1 UNIT))
(SCALEDLN (MSCALE LN UNIT))
(SCALEDR (MSCALE R UNIT))
(FLOATINGRIGHT NIL)
(EXTENDEDRIGHT NIL)
UNSETL1 UNSETLN)
(CL:UNLESS RIGHTLIM (\TEDIT.THELP))
(CL:UNLESS UPDATE (DRAWMARGINSCALE W UNIT))
(DSPFONT (FONTCREATE 'TERMINAL 10)
W)
(SETQ L1 (MKSTRING (ABS L1)))
(SETQ LN (MKSTRING (ABS LN)))
(SETQ R (MKSTRING (ABS R)))
[COND

```

```

[ (ILESSP SCALEDR 4) ; Unset right margin. Show specially, but at its usual place.
(SETQ FLOATINGRIGHT T)
(SETQ SCALEDR (IPLUS 4 (IDIFFERENCE 4 SCALEDR] ; Floating right margin => marked specially
(ILEQ SCALEDR 4)
(SETQ FLOATINGRIGHT T)
(SETQ SCALEDR RIGHTLIM)) ; Not floating, so just limit it to the rightmost that can be seen.
(IGREATERP SCALEDR RIGHTLIM)
(SETQ EXTENDEDRIGHT T)
(SETQ SCALEDR (IDIFFERENCE RIGHTLIM 8]
(CL:WHEN (ILESSP SCALEDL1 4) ; Unset right FIRST LEFT margin. Show specially, but at its
; usual place.
(SETQ UNSETL1 T)
(SETQ SCALEDL1 (IPLUS 4 (IDIFFERENCE 4 SCALEDL1))))
(CL:WHEN (ILESSP SCALEDLN 4) ; Unset LEFT margin. Show specially, but at its usual place.
(SETQ UNSETLN T)
(SETQ SCALEDLN (IPLUS 4 (IDIFFERENCE 4 SCALEDLN))))
(BLTSHADE WHITESHADE W 1 26 (IDIFFERENCE (fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL W))
3)

```

```

32
'REPLACE)
(BLTSHADE BLACKSHADE W SCALEDL1 42 (IDIFFERENCE SCALEDR SCALEDL1)
16
'REPLACE)
(BLTSHADE BLACKSHADE W SCALEDLN 26 (IDIFFERENCE SCALEDR SCALEDLN)
16
'REPLACE)

```

```

(COND
(UNSETL1 ; 1st left margin isn't set, tho it has a value. Mark it neutral
(BLTSHADE EDITGRAY W SCALEDL1 42 (IPLUS (STRINGWIDTH L1 W)
2)

```

```

16
'REPLACE)
(DSPOPERATION 'PAINT W)
(MOVETO (IPLUS SCALEDL1 2)
44 W)
(PRIN1 L1 W)
(DSPOPERATION 'ERASE W))
(T (MOVETO (IPLUS SCALEDL1 2)
44 W)
(PRIN1 L1 W)))

```

```

(COND
(UNSETLN ; left margin isn't set, tho it has a value. Mark it neutral
(BLTSHADE EDITGRAY W SCALEDLN 26 (IPLUS (STRINGWIDTH LN W)
2)

```

```

16
'REPLACE)
(DSPOPERATION 'PAINT W)
(MOVETO (IPLUS SCALEDLN 2)
28 W)
(PRIN1 LN W)
(DSPOPERATION 'ERASE W))
(T (MOVETO (IPLUS SCALEDLN 2)

```

```

      28 W)
      (PRIN1 LN W))
[COND
  (FLOATINGRIGHT ; Floating right margin is marked by a light gray marker
    (BLTSHADE EDITGRAY W (IDIFFERENCE SCALED R (IPLUS (STRINGWIDTH R W)
      2)))
      26
      (IPLUS (STRINGWIDTH R W)
        2)
      32
      'REPLACE)
    (DSPOPERATION 'PAINT W))
  (EXTENDEDRIGHT ; A non-visible right margin is marked by two wavy lines
    ; indicating a break
    (BITBLT TEDIT.EXTENDEDRIGHTMARK 0 0 W SCALED R 26 8 32 'INPUT 'REPLACE]
  (MOVETO (IDIFFERENCE SCALED R (IPLUS (STRINGWIDTH R W)
    2)))
      36 W)
  (PRIN1 R W)
  (DSPOPERATION OLDOP W)
  (COND
    ((EQ TABS 'NEUTRAL) ; All tabs have been neutralized. Just lay down a grey pattern
      ; over them.
      (DSPFILL (create REGION
        LEFT _ 2
        BOTTOM _ 1
        HEIGHT _ 8
        WIDTH _ (IDIFFERENCE (fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL W))
          4))
        EDITGRAY
        'REPLACE W))
    (T (DSPFILL (create REGION
      LEFT _ 2
      BOTTOM _ 1
      HEIGHT _ 8
      WIDTH _ (IDIFFERENCE (fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL W))
        4))
      WHITESHADE
      'REPLACE W)
      (for TAB in TABS do ; Run thru the tabs, putting them down in place.
        (MB.MARGINBAR.SHOWTAB W TAB UNIT 'PAINT]))

```

(MARGINBAR.CREATE

```

[LAMBDA (MARL1 MARLN MARR MARTABS MARUNIT MARTABTYPE)

```

```

; Edited 29-Sep-2024 12:53 by rmk
; Edited 4-Aug-2024 22:36 by rmk
; Edited 29-Jul-2024 10:13 by rmk
; Edited 28-Jul-2024 09:18 by rmk
; Edited 25-Jul-2024 16:10 by rmk
; Edited 22-Jul-2024 11:54 by rmk
; Edited 12-Jun-90 18:59 by mitani

```

;; Create an instance of the margin-setting ruler for TEdit's use.

```

(PROG ((BOX (create IMAGEBOX
  XSIZE _ 1008
  YSIZE _ 62
  YDESC _ 0
  XKERN _ 4))
  OBJ OBJDATUM BITMAP DS)
  (SETQ OBJ
    (IMAGEOBJCREATE (SETQ OBJDATUM
      (create MARGINBAR
        MARL1 _ MARL1
        MARLN _ MARLN
        MARR _ MARR
        MARTABS _ MARTABS
        MARUNIT _ MARUNIT
        MARTABTYPE _ MARTABTYPE))
      MARGINBARIMAGEFNS))
  (SETQ BITMAP (BITMAPCREATE (fetch XSIZE of BOX)
    (fetch YSIZE of BOX)))
  (IMAGEOBJPROP OBJ 'BITCACHE BITMAP)
  (SETQ DS (DSPCREATE BITMAP))
  (IMAGEOBJPROP OBJ 'DSPCACHE DS)
  (DSPXOFFSET 0 DS)
  (DSPYOFFSET 0 DS)
  (DSPCLIPPINGREGION (create REGION
    LEFT _ 0
    BOTTOM _ 0
    WIDTH _ (fetch XSIZE of BOX)
    HEIGHT _ (fetch YSIZE of BOX))
    DS)
  (MARGINBAR DS (fetch (MARGINBAR MARL1) of OBJDATUM)
    (fetch (MARGINBAR MARLN) of OBJDATUM)
    (fetch (MARGINBAR MARR) of OBJDATUM)
    (fetch (MARGINBAR MARTABS) of OBJDATUM)

```

```

; Create an IMAGEOBJ, containing an instance of the record to
; hold margin and tab info
; A cache for the ruler's screen image
; And a displaystream for modifying that image

```

```
(fetch (MARGINBAR MARUNIT) of OBJDATUM)
NIL
(fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL DS))
```

:: Fill in the cache with the original value This does the time-consuming part of drawing the ticks on the ruler and such, which would make drawing
:: it on the fly unbearable.

```
(IMAGEOBJPROP OBJ 'IDENTIFIER 'MARGINBAR)
(IMAGEOBJPROP OBJ 'STATEFN (FUNCTION MARGINBAR.GETSTATEFN))
(IMAGEOBJPROP OBJ 'SETSTATEFN (FUNCTION MARGINBAR.SETSTATEFN))
(RETURN OBJ)
```

(MB.MARGINBAR.BUTTONEVENTINFN

```
[LAMBDA (OBJ MENU DS SEL RELX RELY MENUTSTREAM)
```

```
; Edited 11-Jan-2025 21:28 by rmk
; Edited 7-Dec-2024 21:21 by rmk
; Edited 25-Aug-2024 09:12 by rmk
; Edited 1-Aug-2024 22:56 by rmk
; Edited 23-Jul-2024 00:44 by rmk
; Edited 18-Jul-2024 17:08 by rmk
; Edited 26-Feb-2024 11:44 by rmk
; Edited 12-Jun-90 18:59 by mitani
```

```
(TEDIT.PROMPTCLEAR MENUTSTREAM)
```

:: Let the user adjust margins and tabs using the mouse. Do the adjustment based on the region of the margin bar that mouse starts out in: left
:: marging, first line, right margin, tabs

```
(LET* ((OBJDATUM (IMAGEOBJPROP OBJ 'OBJECTDATUM))
       (IMAGEBOX (OR (IMAGEOBJPROP OBJ 'BOUNDBOX)
                     (IMAGEBOX OBJ MENUTSTREAM))))
  (L1 (fetch MARL1 of OBJDATUM))
  (OL1 L1)
  (LN (fetch MARLN of OBJDATUM))
  (OLN LN)
  (RMARG (fetch MARR of OBJDATUM))
  (OLDRMARG RMARG)
  (TABS (fetch MARTABS of OBJDATUM))
  (UNIT (fetch MARUNIT of OBJDATUM))
  (CLIP (create REGION
              LEFT _ 0
              BOTTOM _ 0
              WIDTH _ (fetch XSIZE of IMAGEBOX)
              HEIGHT _ (fetch YSIZE of IMAGEBOX)))
  (PWIDTH (PANEWIDTH (WFROM DS MENUDS)))
  (RIGHTLIM (IDIFFERENCE PWIDTH 4)))
```

```
[if (INSIDE? (create REGION
                  LEFT _ (IDIFFERENCE (MSCALE (ABS L1)
                                           UNIT)
                                     2)
                  BOTTOM _ 42
                  WIDTH _ 16
                  HEIGHT _ 16)
    RELX RELY)
```

then ; Move the 1st-line left margin.

```
(while (AND (MOUSESTATE (OR LEFT MIDDLE RIGHT))
            (INSIDE? CLIP (LASTMOUSEX MENUTSTREAM)
                        (LASTMOUSEY MENUTSTREAM)))
  do (SETQ L1 (MAX 0 (MDESCALE (LASTMOUSEX MENUTSTREAM)
                              UNIT)))
```

(CL:WHEN (\TEDIT.MOUSESTATE RIGHT) ; Right mouse button UNsets the margin.

```
(SETQ L1 (MINUS L1))
(CL:UNLESS (EQ OL1 L1)
  (MARGINBAR MENUTSTREAM L1 LN RMARG TABS UNIT T RIGHTLIM)
  (SETQ OL1 L1))
```

```
elseif (INSIDE? (create REGION
                  LEFT _ (IDIFFERENCE (MSCALE (ABS LN)
                                           UNIT)
                                     2)
                  BOTTOM _ 26
                  WIDTH _ 16
                  HEIGHT _ 16)
  RELX RELY)
```

then ; Move the skirt's left margin

```
(while (AND (MOUSESTATE (OR LEFT MIDDLE RIGHT))
            (INSIDE? CLIP (LASTMOUSEX MENUTSTREAM)
                        (LASTMOUSEY MENUTSTREAM)))
  do (SETQ LN (MAX 0 (MDESCALE (LASTMOUSEX MENUTSTREAM)
                              UNIT)))
```

(CL:WHEN (\TEDIT.MOUSESTATE RIGHT) ; Right mouse button UNsets the margin.

```
(SETQ LN (MINUS LN))
(CL:UNLESS (EQ OLN LN)
  (MARGINBAR MENUTSTREAM L1 LN RMARG TABS UNIT T RIGHTLIM)
  (SETQ OLN LN))
```

```
elseif (OR (INSIDE? (create REGION
                  LEFT _ (IDIFFERENCE (IMIN (MSCALE (ABS RMARG)
                                                    UNIT)
                                           (fetch XSIZE of IMAGEBOX)
                                           PWIDTH)
                                     16)
                  BOTTOM _ 42
                  WIDTH _ 16
                  HEIGHT _ 16)
  RELX RELY)
```

```

        BOTTOM _ 26
        WIDTH _ 16
        HEIGHT _ 32)
    RELX RELY)
    (AND (ZEROP (IABS (FIXR RMARG)))
    (INSIDE? (create REGION
        LEFT _ (IDIFFERENCE (IMIN (fetch XSIZE of IMAGEBOX)
        PWIDTH)
        16)
        BOTTOM _ 26
        WIDTH _ 16
        HEIGHT _ 32)
    RELX RELY)))
then
    (while (AND (MOUSESTATE (OR LEFT MIDDLE RIGHT))
    (INSIDE? CLIP (LASTMOUSEX MENUTSTREAM)
    (LASTMOUSEY MENUTSTREAM)))
    do (SETQ RMARG (MAX 0 (MDESCALE (LASTMOUSEX MENUTSTREAM)
    UNIT)))
    (CL:WHEN (\TEDIT.MOUSESTATE RIGHT) ; Right mouse button UNsets the margin.
    (SETQ RMARG (MINUS RMARG)))
    (CL:UNLESS (EQ OLDRMARG RMARG)
    (MARGINBAR MENUTSTREAM L1 LN RMARG TABS UNIT T RIGHTLIM)
    (SETQ OLDRMARG RMARG)))
elseif (INSIDE? (create REGION
    LEFT _ 0
    BOTTOM _ 0
    WIDTH _ (fetch (REGION WIDTH) of CLIP)
    HEIGHT _ 16)
    RELX RELY)
then
    (if (EQ 'OFF (MB.GET 'TABTYPE MENUTSTREAM 'STATE NIL T))
    then (TEDIT.PROMTPRINT MENUTSTREAM "Please choose one of the tab types" T)
    else (replace MARTABS of OBJDATUM with (MB.MARGINBAR.SELFN.TABS OBJDATUM MENUDS MENUTSTREAM)
    (replace MARL1 of OBJDATUM with L1)
    (replace MARLN of OBJDATUM with LN)
    (replace MARR of OBJDATUM with RMARG)
    (TEDIT.BACKTOMAIN MENUTSTREAM)
    'DON'T])

```

(MB.MARGINBAR.SELFN.TABS

[LAMBDA (OBJDATUM SELWINDOW STREAM) ; Edited 11-Jan-2025 10:47 by rmk
; Edited 24-Aug-2024 21:40 by rmk
; Edited 2-Aug-2024 08:18 by rmk

;; Mouse is down in the tab region of the marginbar. Creates, moves, or deletes a tab, depending on the mouse button. Returns the modified TABS
;; list. UNIT was only partially implemented, tabs are assumed to be in piecas and are scaled to points (PTSPERPICA=12).

```

(LET* ((TABS (fetch MARTABS of OBJDATUM))
    (UNIT (fetch MARUNIT of OBJDATUM))
    [SCALEDTABS (for TAB in (LISTP (fetch MARTABS of OBJDATUM)) collect (MSCALE (fetch TABX of TAB)
    (fetch MARUNIT of OBJDATUM))
    TAB TABX) ; Only scale the tabs if there are any, and they're not neutralized.
    [if (MOUSESTATE LEFT)
    then ; MOVE a tab
    [SETQ TAB (for TABX in SCALEDTABS as TAB in TABS smallest (ABS (IDIFFERENCE TABX (LASTMOUSEX
    STREAM)
    (LASTMOUSEY MENUTSTREAM)))
    (CL:WHEN TAB (MB.MARGINBAR.TABTRACK STREAM OBJDATUM TAB))
    elseif (MOUSESTATE MIDDLE) ; ADD/CHANGE a tab
    (CL:WHEN (EQ (fetch MARTABS of OBJDATUM)
    'NEUTRAL) ; The tabs used to be NEUTRAL. Clear the tab region, and start
    ; afresh.
    (replace MARTABS of OBJDATUM with NIL) ; So we don't come this way again.
    ;; Make the tab region look non-neutral, too, so that tabs look OK on it.
    (DSPFILL (CREATEREGION 2 1 8 (IDIFFERENCE (fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL
    SELWINDOW))
    4))
    WHITESHADE
    'REPLACE SELWINDOW))
    (if (AND [SETQ TAB (for TABX in SCALEDTABS as TAB in TABS
    smallest (ABS (IDIFFERENCE TABX (LASTMOUSEX STREAM)
    (LASTMOUSEY MENUTSTREAM)))
    (SETQ TABX (MSCALE (CAR TAB)
    UNIT))
    (IGEQ (LASTMOUSEX STREAM)
    (IDIFFERENCE TABX 2))
    (ILEQ (LASTMOUSEX STREAM)
    (IPLUS TABX 2)))
    then (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'ERASE)
    (replace (TAB TABKIND) of TAB with (MB.MARGINBAR.SELFN.TABS.KIND SELWINDOW))
    (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'PAINT)
    (MB.MARGINBAR.TABTRACK STREAM OBJDATUM TAB)
    elseif [NOT (AND TAB (EQ (fetch TABX of TAB)
    (MDESCALE (LASTMOUSEX STREAM)
    UNIT))
    then ; Really create a new tab

```

```

      (SETQ TAB (create TAB
                    TABX _ (MDESCALE (LASTMOUSEX STREAM)
                                   UNIT)
                    TABKIND _ (MB.MARGINBAR.SELFN.TABS.KIND SELWINDOW)))
      (SETQ TABS (CONS TAB TABS))
      (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'PAINT)
      (MB.MARGINBAR.TABTRACK STREAM OBJDATUM TAB))
  elseif (MOUSESTATE RIGHT)
  then
      ; DELETE a tab.
      (CL:WHEN (AND [SETQ TAB (for TABX in SCALEDTABS as TAB in TABS
                    smallest (ABS (IDIFFERENCE TABX (LASTMOUSEX STREAM)
                    (SETQ TABX (MSCALE (CAR TAB)
                                   UNIT))
                    (IGEQ (LASTMOUSEX STREAM)
                         (IDIFFERENCE TABX 2))
                    (ILEQ (LASTMOUSEX STREAM)
                         (IPLUS TABX 2)))
                    (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'ERASE)
                    (SETQ TABS (REMOVE TAB TABS))]))]
      TABS])

```

(MB.MARGINBAR.SELFN.TABS.KIND

[LAMBDA (SELWINDOW)

; Edited 22-Oct-2024 13:03 by rmk
; Edited 28-Aug-2024 19:15 by rmk
; Edited 25-Aug-2024 23:47 by rmk
; Edited 24-Aug-2024 21:49 by rmk

;; Look backward through SELWINDOW to find the TABTYPE and DOTTEDLEADER buttons, use them to produce the current TABKIND

```

(LET* [(STATES (MB.GET ' (DOTTEDLEADER TABTYPE)
                      SELWINDOW
                      ' STATE NIL T))
      (TABTYPE (OR (LISTGET STATES 'TABTYPE)
                  'LEFT])
      (CL:IF (EQ 'ON (LISTGET STATES 'DOTTEDLEADER))
             (PACK* 'DOTTED TABTYPE)
             TABTYPE)])

```

(MARGINBAR.GETSTATEFN

[LAMBDA (PC OBJ TEXTOBJ)

; Edited 22-Oct-2024 12:26 by rmk
; Edited 20-Oct-2024 11:39 by rmk
; Edited 29-Aug-2024 09:32 by rmk
; Edited 12-Aug-2024 10:43 by rmk
; Edited 9-Aug-2024 22:24 by rmk
; Edited 4-Aug-2024 22:40 by rmk
; Edited 1-Aug-2024 00:12 by rmk
; Edited 29-Jul-2024 11:01 by rmk

;; This gets the current state of the marginbar's image object in the menu, for applying.

```

(LET* ((OBJDATUM (IMAGEOBJPROP OBJ 'OBJECTDATUM))
      (MARUNIT (fetch (MARGINBAR MARUNIT) of OBJDATUM))
      (L1 (FIXR (TIMES (fetch (MARGINBAR MARL1) of OBJDATUM)
                        MARUNIT)))
      (LN (FIXR (TIMES (fetch (MARGINBAR MARLN) of OBJDATUM)
                        MARUNIT)))
      (R (FIXR (TIMES (fetch (MARGINBAR MARR) of OBJDATUM)
                       MARUNIT)))
      (MARTABS (fetch (MARGINBAR MARTABS) of OBJDATUM))
      LOOKS)
      (CL:WHEN (IGEQ L1 0)
               (push LOOKS '1STLEFTMARGIN L1)
               ; The 1stleftmargin is set, and non-neutral.
      (CL:WHEN (IGEQ LN 0)
               (push LOOKS 'LEFTMARGIN LN)
               ; The LEFTMARGIN is set, and non-neutral.
      (CL:WHEN (IGEQ R 0)
               (push LOOKS 'RIGHTMARGIN R)
               ; The RIGHTMARGIN is set, and non-neutral.
      (CL:UNLESS (MEMB MARTABS ' (NIL NEUTRAL))
                 ; If the tab settings are neutral, don't change anything.
      ;; Convert from incoming tab units (picas?) to points. The default tab is already in points.
      [push LOOKS 'TABS (SORT (\TEDIT.SCALE.TABS MARTABS MARUNIT)
                             (FUNCTION (LAMBDA (A B)
                                       (ILEQ (CAR A)
                                             (CAR B))

```

;; Toggle the dotted-leader state of the margin bar tab-setter.

```

(change (fetch (MARGINBAR MARTABTYPE) of OBJDATUM)
      (SELECTQ (MB.GET 'DOTTEDLEADER TEXTOBJ 'STATE PC T)
              (ON (SELECTQ (OR DATUM 'LEFT)
                          (LEFT 'DOTTEDLEFT)
                          (CENTERED 'DOTTEDCENTERED)
                          (RIGHT 'DOTTEDRIGHT)
                          (DECIMAL 'DOTTEDDECIMAL)
                          NIL))
              (OFF (SELECTQ DATUM
                          (DOTTEDLEFT 'LEFT)
                          (DOTTEDCENTERED
                           'CENTERED)

```

```

(DOTTEDRIGHT 'RIGHT)
(DOTTEDDECIMAL
 'DECIMAL)
NIL))
NIL))
(IMAGEOBJPROP OBJ 'STATE (CONS LOOKS))
PC])

```

(MARGINBAR.SETSTATEFN

```

[LAMBDA (PC NEWVALUE TSTREAM)
 (IMAGEOBJPROP (PCONENTS PC)
 'OBJECTDATUM NEWVALUE)
PC])

```

; Edited 3-Aug-2024 23:55 by rmk

(MARGINBAR.NEUTRALIZE

```

[LAMBDA (OBJ)

```

; Edited 29-Jul-2024 12:14 by rmk

;; Neutralizes the settings of the marginbar

```

(create MARGINBAR smashing (IMAGEOBJPROP OBJ 'OBJECTDATUM)
MARL1 _ -0.5 MARLN _ -0.5 MARR _ -39.5 MARTABS _ 'NEUTRAL MARUNIT _ 12 MARTABTYPE _
NIL])

```

(MARGINBAR.LOOKS

```

[LAMBDA (OBJ DOTTEDLEADER)

```

; Edited 20-Oct-2024 15:27 by rmk

; Edited 28-Jul-2024 21:17 by rmk

; Edited 25-Jul-2024 16:18 by rmk

```

(LET* ((OBJDATUM (IMAGEOBJPROP OBJ 'OBJECTDATUM))
(MARUNIT (fetch (MARGINBAR MARUNIT) of OBJDATUM))
(L1 (FIXR (TIMES (fetch (MARGINBAR MARL1) of OBJDATUM)
MARUNIT)))
(LN (FIXR (TIMES (fetch (MARGINBAR MARLN) of OBJDATUM)
MARUNIT)))
(R (FIXR (TIMES (fetch (MARGINBAR MARR) of OBJDATUM)
MARUNIT)))
(MARTABS (fetch (MARGINBAR MARTABS) of OBJDATUM))
LOOKS)

```

(CL:WHEN (IGEQ L1 0) ; The 1stleftmargin is set, and non-neutral.

```

(push LOOKS '1STLEFTMARGIN L1))

```

(CL:WHEN (IGEQ LN 0) ; The LEFTMARGIN is set, and non-neutral.

```

(push LOOKS 'LEFTMARGIN LN))

```

(CL:WHEN (IGEQ R 0) ; The RIGHTMARGIN is set, and non-neutral.

```

(push LOOKS 'RIGHTMARGIN R))

```

(CL:UNLESS (MEMB MARTABS ' (NIL NEUTRAL)) ; If the tab settings are neutral, don't change anything.

;; Convert from incoming tab units (picas?) to points. The default tab is already in points.

```

[push LOOKS 'TABUNIT MARUNIT 'TABS (SORT (\TEDIT.SCALE.TABS MARTABS MARUNIT)
(FUNCTION (LAMBDA (A B)
(ILEQ (CAR A)
(CAR B))

```

;; Toggle the dotted-leader state of the margin bar tab-setter.

(change (fetch (MARGINBAR MARTABTYPE) of OBJDATUM)

```

(SELECTQ DOTTEDLEADER
(OFF (SELECTQ (OR DATUM 'LEFT)
(LEFT 'DOTTEDLEFT)
(CENTERED 'DOTTEDCENTERED)
(RIGHT 'DOTTEDRIGHT)
(DECIMAL 'DOTTEDDECIMAL)
NIL))
(OFF (SELECTQ DATUM
(DOTTEDLEFT 'LEFT)
(DOTTEDCENTERED
'CENTERED)
(DOTTEDRIGHT 'RIGHT)
(DOTTEDDECIMAL
'DECIMAL)
NIL))
NIL))

```

LOOKS])

(MB.MARGINBAR.SIZEFN

```

[LAMBDA (OBJ)

```

; Edited 3-Dec-2024 20:03 by rmk

(* jds " 5-Sep-84 14:10")

;; YDESC is 2 so that selecting the bar and highlighting doesn't wipe out the bottom line. Although you shouldn't be able to select it

```

(LET ((BOX (create IMAGEBOX
XSIZE _ 1008
YSIZE _ 62
YDESC _ 2
XKERN _ 4)))
(IMAGEOBJPROP OBJ 'BOUNDBOX BOX)
BOX])

```


(MB.MARGINBAR.DISPLAYFN

[LAMBDA (OBJ STREAM)

; Edited 29-Jul-2024 12:01 by rmk
; Edited 23-Jul-2024 00:42 by rmk
; Edited 18-Jul-2024 17:04 by rmk
; Edited 9-Sep-2022 22:37 by rmk
; Edited 12-Jun-90 18:59 by mitani
; Display the innards of a menu button

(PROG ((IMAGEBOX (OR (IMAGEOBJPROP OBJ 'BOUNDBOX)
(IMAGEBOX OBJ STREAM)))
(OBJDATUM (IMAGEOBJPROP OBJ 'OBJECTDATUM))
(BITMAP (IMAGEOBJPROP OBJ 'BITCACHE))
(DS (DSPCREATE)))
(COND

[BITMAP

;; The marginbar existed already as an image. Don't bother re-creating it, and remember that we're allowed to MODIFY the
;; old image instead of creating a new one.

(SETQ DS (IMAGEOBJPROP OBJ 'DSPCACHE]

(T ; Have to create an image for the margin bar

(SETQ BITMAP (BITMAPCREATE (fetch XSIZE of IMAGEBOX)

(fetch YSIZE of IMAGEBOX))) ; Create a cache bitmap

(IMAGEOBJPROP OBJ 'BITCACHE BITMAP)

(SETQ DS (DSPCREATE BITMAP))

(IMAGEOBJPROP OBJ 'DSPCACHE DS)

(DSPXOFFSET 0 DS)

(DSPYOFFSET 0 DS)

(DSPCLIPPINGREGION (create REGION

LEFT _ 0

BOTTOM _ 0

WIDTH _ (fetch XSIZE of IMAGEBOX)

HEIGHT _ (fetch YSIZE of IMAGEBOX))

DS))

(MARGINBAR DS (fetch (MARGINBAR MARL1) of OBJDATUM)

(fetch (MARGINBAR MARLN) of OBJDATUM)

(fetch (MARGINBAR MARR) of OBJDATUM)

(fetch (MARGINBAR MARTABS) of OBJDATUM)

(fetch (MARGINBAR MARUNIT) of OBJDATUM)

NIL

(fetch (REGION WIDTH) of (DSPCLIPPINGREGION NIL STREAM)))

; Update the image, if it needs it

(BITBLT BITMAP 0 0 STREAM (IDIFFERENCE (DSPXPOSITION NIL STREAM)

4)

(IDIFFERENCE (DSPYPOSITION NIL STREAM)

(fetch YDESC of IMAGEBOX])

(MDESCALE

[LAMBDA (VAL UNIT)

(* jds " 4-NOV-83 17:29")

(* Convert a value from screen offset units to marginbar units)

(COND

((IEQP UNIT 12)

(QUOTIENT (IQUOTIENT (LLSH (IDIFFERENCE VAL 4)

1)

UNIT)

2.0))

(T (QUOTIENT (DIFFERENCE VAL 4)

UNIT]))

(MSCALE

[LAMBDA (VAL UNIT)

(* jds " 4-NOV-83 17:31")

(* Convert from marginbar units to a screen X offset)

(IPLUS 4 (FIXR (TIMES VAL (OR UNIT 1]))

(MB.MARGINBAR.SHOWTAB

[LAMBDA (W TAB UNIT MODE)

(* jds "22-Mar-85 17:36")

(* Paint/erase/otherwise display the sign for a TAB in window WINDOW, using units UNIT)

(PROG ((TABX (MSCALE (fetch TABX of TAB)
UNIT)))

(SELECTQ (fetch TABKIND of TAB)

(LEFT

(* Flush-left tab.)

(BITBLT \TEDIT.LEFTTAB 0 0 W (IDIFFERENCE TABX 2)

1 NIL NIL 'INPUT MODE))

(CENTERED

(* Centered Tab)

(BITBLT \TEDIT.CENTERTAB 0 0 W (IDIFFERENCE TABX 5)

1 NIL NIL 'INPUT MODE))

(RIGHT

(* Flush-right Tab)

(BITBLT \TEDIT.RIGHTTAB 0 0 W (IDIFFERENCE TABX 7)

1 NIL NIL 'INPUT MODE))

(DECIMAL

(* Decimal aligned tab)

(BITBLT \TEDIT.DECIMALTAB 0 0 W (IDIFFERENCE TABX 7)

1 NIL NIL 'INPUT MODE))

(DOTTEDLEFT

(* Decimal aligned tab)

(BITBLT \TEDIT.DOTTED.LEFTTAB 0 0 W (IDIFFERENCE TABX 7)

```

1 NIL NIL 'INPUT MODE))
(DOTTEDCENTERED (* Decimal aligned tab)
  (BITBLT \TEDIT.DOTTED.CENTERTAB 0 0 W (IDIFFERENCE TABX 7)
    1 NIL NIL 'INPUT MODE))
(DOTTEDRIGHT (* Decimal aligned tab)
  (BITBLT \TEDIT.DOTTED.RIGHTTAB 0 0 W (IDIFFERENCE TABX 7)
    1 NIL NIL 'INPUT MODE))
(DOTTEDDECIMAL (* Decimal aligned tab)
  (BITBLT \TEDIT.DOTTED.DECIMALTAB 0 0 W (IDIFFERENCE TABX 7)
    1 NIL NIL 'INPUT MODE))
NIL))

```

(MB.MARGINBAR.TABTRACK

[LAMBDA (STREAM OBJ TAB)

; Edited 20-Nov-2023 10:51 by rmk
(* jds " 8-Feb-84 20:38")

:: Given that the mouse is down over a tab, track the tab as the mouse moves.

```

(bind X (UNIT _ (fetch MARUNIT of OBJ))
  (CLIP _ (DSPCLIPPINGREGION NIL STREAM))
  (OLDX _ (MSCALE (fetch TAB of TAB)
    (fetch MARUNIT of OBJ))))
while (AND (MOUSESTATE (OR LEFT MIDDLE RIGHT))
  (INSIDE? CLIP (LASTMOUSEX STREAM)
    (LASTMOUSEY STREAM)))
unless (IEQP OLDX (SETQ X (LASTMOUSEX STREAM))) do (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'ERASE)
  (replace TABX of TAB with (MDESCALE X UNIT))
  (MB.MARGINBAR.SHOWTAB STREAM TAB UNIT 'PAINT)
  (SETQ OLDX X])

```

(MARGINBAR.INIT

[LAMBDA NIL

; Edited 11-Jan-2025 13:11 by rmk
; Edited 7-Jan-2025 22:48 by rmk
; Edited 25-Aug-2024 09:11 by rmk
; Edited 17-Jul-2024 21:58 by rmk
(* jds " 9-Feb-86 15:18")

```

(DECLARE (GLOBALVARS MARGINBARIMAGEFNS))
(SETQ MARGINBARIMAGEFNS (IMAGEFNSCREATE (FUNCTION MB.MARGINBAR.DISPLAYFN)
  (FUNCTION MB.MARGINBAR.SIZEFN)
  (FUNCTION MB.MARGINBAR.PUTFN)
  (FUNCTION MB.MARGINBAR.GETFN)
  (FUNCTION MB.COPYFN)
  (FUNCTION MB.MARGINBAR.BUTTONEVENTINFN)
  (FUNCTION MB.DON'T)
  (FUNCTION MB.DON'T)
  'NIL
  (FUNCTION MB.DON'T)
  (FUNCTION MB.DON'T)
  'NIL
  'NIL
  'MarginRuler))

```

(\TEDIT.PARALOOKS.TO.MARBAR

[LAMBDA (PARALOOKS UNIT)

; Edited 19-Feb-2025 13:25 by rmk
; Edited 8-Feb-2025 21:08 by rmk
; Edited 4-Aug-2024 22:50 by rmk

:: Creates a margin bar reflecting the properties of PARALOOKS, for PARAMENU display. Assumes that UNIT is the conversion factor
:: (presumably PTSPERPICA) that takes PARALOOKS screen-point numbers into MARGINBAR numbers. No rounding.

:: Hardcopy scaling isn't relevant for menus.

```

(create MARGINBAR
  MARL1 _ (FQUOTIENT (FGETPLOOKS PARALOOKS 1STLEFTMAR)
    UNIT)
  MARLN _ (FQUOTIENT (FGETPLOOKS PARALOOKS LEFTMAR)
    UNIT)
  MARR _ (FQUOTIENT (FGETPLOOKS PARALOOKS RIGHTMAR)
    UNIT)
  MARUNIT _ UNIT
  MARTABS _ (for TAB in (FGETPLOOKS PARALOOKS FMTTABS) collect (create TAB
    using TAB TABX _
      (QUOTIENT (fetch (TAB TABX)
        of TAB)
        UNIT]))
)

```

(RPAQQ \TEDIT.LEFTTAB ↵)

(RPAQQ \TEDIT.CENTERTAB ↵)

(RPAQQ \TEDIT.RIGHTTAB ↵)

(RPAQQ \TEDIT.DECIMALTAB ↵)


```
(TEXTPROP MENUTEXTOBJ 'NOTSPLITTABLE T)
(WINDOWPROP MENUW 'BUTTONEVENTFN (FUNCTION \TEDIT.MENU.BUTTONEVENTFN))
(SETSEL (GETTOBJ MENUTEXTOBJ SEL)
  SET NIL)
MENUW) ] ] ) ; Have to click to get the selection going
```

(\TEDIT.MENU.BUTTONEVENTFN

```
[LAMBDA (MENUW) ; Edited 28-Jun-2024 23:09 by rmk
; Edited 25-Sep-2023 12:53 by rmk
```

:: Entry for menus that allows for any special menu actions. In particular, turns on the caret blinking if it wasn't on before.

```
(replace (TEDITCARET TCFORCEUP) of (GETPANEPROP (PANEPROPS MENUW)
  PCARET)
  with NIL)
(\TEDIT.BUTTONEVENTFN MENUW])
```

)

(RPAQQ TEXTMENUICON



(RPAQQ TEXTMENUICONMASK



:: Generic support for Tedit menus

```
(DEFINEQ
```

(\TEDIT.MENU.CREATE

```
[LAMBDA (MENEDESC MENUPROPS) ; Edited 17-Dec-2024 08:53 by rmk
; Edited 22-Aug-2024 11:09 by rmk
; Edited 21-Aug-2024 09:54 by rmk
; Edited 14-Aug-2024 09:40 by rmk
; Edited 9-Aug-2024 16:01 by rmk
; Edited 3-Aug-2024 12:35 by rmk
; Edited 27-Jul-2024 12:10 by rmk
; Edited 19-Sep-2023 14:36 by rmk
; Edited 16-Sep-2023 13:03 by rmk
; Edited 13-Aug-2022 23:11 by rmk
; Edited 31-Jan-2022 22:48 by rmk
; Edited 12-Jun-90 19:00 by mitani
```

:: Create the TEXTSTREAM for a menu, given a menu description. That stream is marked as a menu and passed to \TEDIT.MENU.START to get the menu up on screen

```
(LET [(MENUTSTREAM (OPENTEXTSTREAM NIL NIL NIL NIL (OR MENUPROPS '(FONT (MODERN 10)
  (MB.ADD MENEDESC MENUTSTREAM)
  (SETSEL (TEXTSEL (GETTSTR MENUTSTREAM TEXTOBJ))
    SET NIL)
  (SETTOBJ (GETTSTR MENUTSTREAM TEXTOBJ)
    MENUFLG T)
  MENUTSTREAM])
```

(\TEDIT.MENU.PARSE

```
[LAMBDA (MENUTEXTSTREAM STARTPIECE STOPIDENTIFIER) ; Edited 22-Oct-2024 00:28 by rmk
; Edited 6-Oct-2024 15:34 by rmk
; Edited 29-Sep-2024 12:55 by rmk
; Edited 7-Sep-2024 13:07 by rmk
; Edited 31-Aug-2024 14:06 by rmk
; Edited 29-Aug-2024 11:08 by rmk
; Edited 21-Aug-2024 12:13 by rmk
; Edited 16-Aug-2024 08:40 by rmk
; Edited 10-Aug-2024 00:13 by rmk
```

:: This is the generic parsing function for Tedit menus. It collects all of the specifications currently installed in the menu, and returns them in plist format. The IDENTIFIER and STATEFN of each menu imageobject determines its contribution to the result.

:: The STATEFN is given the PC containing its image object, and it returns the last PC that went into formulating the state property.

:: If the STATE after running the STATEFN is a list whose CAR looks like a property list, that is merged in to the top level. So this function can itself be used as a STATEFN for menu items that combine the information of other image objects.

:: Optional STARTPIEC and STOPIDENTIFIER permit confining the parse to a subregion of the menu. The parsing begins at STARTPIECE and ends after examining the first object with that identifier. The piece containing that identifier is stored as a property of the STARTPIECE object..

```
(for PC OBJ PROP STATE STATEFN inpieces (CL:IF STARTPIECE
  (NEXTPIECE STARTPIECE)
  (\TEDIT.FIRSTPIECE (fetch (TEXTSTREAM TEXTOBJ) of MENUTEXTSTREAM))
)
  when [SETQ PROP (AND (SETQ OBJ (POBJ PC))
    (IMAGEOBJPROP OBJ 'IDENTIFIER)
  unless (IMAGEOBJPROP OBJ 'IGNORE) join (CL:WHEN (SETQ STATEFN (IMAGEOBJPROP OBJ 'STATEFN))
    (SETQ PC (APPLY* STATEFN PC OBJ MENUTEXTSTREAM)))
    (CL:UNLESS (IMAGEOBJPROP OBJ 'IGNORE)
      ; Skip if DONTAPPLY or empty
      (SETQ STATE (IMAGEOBJPROP OBJ 'STATE))
```

```

; LISTP CAR means a sub-property list
(CL:UNLESS (EQ '**EMPTY** STATE)
 (CL:IF (LISTP (CAR STATE))
 (APPEND (CAR STATE))
 (LIST PROP STATE))))
repeatuntil (CL:WHEN (AND STOPIIDENTIFIER (EQ STOPIIDENTIFIER PROP)
 (EQ OBJECT.PTYPE (PTYPE STARTPIECE)))
 (IMAGEOBJPROP (PCONTENTS STARTPIECE)
 'PARSEENDPIECE PC)))

```

(\TEDIT.MENU.NEUTRALIZE

```

[LAMBDA (OBJ MENUWINDOW MENUSEL MENUSTREAM) ; Edited 12-Jan-2025 13:05 by rmk
; Edited 1-Jan-2025 10:53 by rmk
; Edited 20-Oct-2024 09:18 by rmk
; Edited 19-Oct-2024 09:16 by rmk
; Edited 6-Oct-2024 15:40 by rmk
; Edited 31-Aug-2024 11:29 by rmk
; Edited 25-Aug-2024 13:58 by rmk
; Edited 22-Aug-2024 08:35 by rmk
; Edited 16-Aug-2024 08:35 by rmk
; Edited 29-Jul-2024 12:16 by rmk

```

:: Set all the fields of a PARAGRAPH LOOKS menu to neutral settings.

```

(RESETLST
 (TEDIT.DEFER.UPDATES MENUSTREAM) ; Turn of the NEUTRAL button
 (for PC OBJ inpieces (\TEDIT.FIRSTPIECE MENUSTREAM) when (SETQ OBJ (POBJ PC))
 do (SELECTQ (IMAGEOBJPROP OBJ 'IMAGECLASSNAME)
 (3StateMenuButton
 (IMAGEOBJPROP OBJ 'STATE 'NEUTRAL))
 (FieldPrefixButton
 (SETQ PC (MB.FIELD.SETSTATEFN PC (OR (IMAGEOBJPROP OBJ 'INITSTATE)
 '**EMPTY**
 MENUSTREAM))))
 (ToggleButton (IMAGEOBJPROP OBJ 'STATE 'OFF))
 (NWayButton (MB.NWAY.SELECT OBJ T))
 (MarginRuler (MARGINBAR.NEUTRALIZE OBJ)
 NIL))
 (TEDIT.BACKTOMAIN MENUSTREAM)))

```

(\TEDITMENU.RECORD.UNFORMATTED

```

[LAMBDA (BUTTON NEWSTATE TEXTSTREAM) ; Edited 22-Sep-2023 20:06 by rmk
(* jds " 7-Feb-85 09:44")
 (PUTTEXTPROP (TEXTOBJ TEXTSTREAM)
 'UNFORMATTEDPUT/GET
 (EQ NEWSTATE 'ON])
)

```

)

::

::

:: EXPANDEDMENU

(DEFINEQ

(\TEDIT.EXPANDEDMENU.CREATE

```

[LAMBDA NIL ; Edited 7-Jan-2025 16:05 by rmk
; Edited 8-Nov-2024 08:35 by rmk
; Edited 22-Oct-2024 10:48 by rmk
; Edited 20-Oct-2024 22:51 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 2-Sep-2024 23:48 by rmk
; Edited 15-Aug-2024 12:19 by rmk
; Edited 14-Aug-2024 09:34 by rmk
; Edited 11-Aug-2024 11:43 by rmk
; Edited 27-Jul-2024 21:09 by rmk
; Edited 24-Jul-2024 18:34 by rmk
(* gbn "27-Sep-84 01:04")

```

:: Creates the TEdit Expanded Menu

```

(PROGN ; Hack so Masterscope knows that these otherwise quoted functions are here.
 (FUNCTION \TEDIT.EXPANDEDMENU.FN)
 (\TEDIT.MENU.CREATE `(ACTION (LABEL "Quit")
 (SELECTFN \TEDIT.EXPANDEDMENU.FN)
 5
 (ACTION (IDENTIFIER PAGELAYOUT)
 (LABEL "Page layout")
 (SELECTFN \TEDIT.EXPANDEDMENU.FN))
 5
 (ACTION (IDENTIFIER CHARLOOKS)
 (LABEL "Char looks")
 (SELECTFN \TEDIT.EXPANDEDMENU.FN))
 5
 (ACTION (IDENTIFIER PARALOOKS)

```

```

(LABEL "Para looks")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
5
(ACTION (LABEL "All")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(ACTION (LABEL "Unformatted")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)))
EOL
(ACTION (LABEL "Get")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(FIELD (IDENTIFIER GETFILE)
(FIELDTYPE SYMBOL)
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
)
)
TAB
(ACTION (LABEL "Put")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(FIELD (IDENTIFIER PUTFILE)
(FIELDTYPE SYMBOL)
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
)
)
TAB
(ACTION (LABEL "Include")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(FIELD (IDENTIFIER INCLUDEFILE)
(FIELDTYPE SYMBOL)
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
)
)
EOL
(ACTION (LABEL "Find")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(FIELD (IDENTIFIER FINDPATTERN)
(FIELDTYPE STRING)
)
)
TAB
(ACTION (LABEL "Substitute")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
(FIELD (IDENTIFIER REPLACEMENT)
(FIELDTYPE SELECTION)
)
(FIELD (IDENTIFIER PATTERN)
(PRELABEL "for")
(FIELDTYPE STRING)
)
)
3
(TOGGLE (LABEL "Confirm"))
TAB
(TOGGLE (IDENTIFIER USENEWLOOKS)
(LABEL "Use New Looks"))
EOL
(ACTION (LABEL "Hardcopy")
(SELECTFN \TEDIT.EXPANDEDMENU.FN)
)
TAB
(FIELD (IDENTIFIER SERVER)
(PRELABEL "server:")
(FIELDTYPE SYMBOL)
)
(FIELD (IDENTIFIER COPIES)
(PRELABEL "copies:")
(FIELDTYPE POSITIIVENUMBER)
)
2
(NWAY (IDENTIFIER SIDES)
(BUTTONS (One% Side Duplex)))
EOL TAB TAB (FIELD (IDENTIFIER MESSAGE/PHONE#)
(PRELABEL "Message/Phone#:")
(FIELDTYPE STRING])

```

(\TEDIT.EXPANDEDMENU.START

[LAMBDA (TSTREAM)

```

; Edited 7-Jan-2025 16:43 by rmk
; Edited 20-Aug-2024 15:46 by rmk
; Edited 25-Jun-2024 11:59 by rmk
; Edited 27-Feb-2024 08:11 by rmk
; Edited 22-Sep-2023 20:00 by rmk
; Edited 19-Sep-2023 08:51 by rmk
; Edited 20-Aug-87 16:51 by jds
; '27-Sep-84 01:04' gbn

```

```

(LET (EXPANDEDMENU (TEXTOBJ (TEXTOBJ TSTREAM)))
(\TEDIT.MENU.START (SETQ EXPANDEDMENU (\TEDIT.EXPANDEDMENU.CREATE) )
(\TEDIT.PRIMARYPANE TEXTOBJ)
" Tedit Menu"
(HEIGHTIFWINDOW 60 T)
'EXPANDED)
(CL:WHEN (OR (GETTEXTPROP TEXTOBJ 'CLEARGET)
(GETTEXTPROP TEXTOBJ 'CLEARPUT)
(MB.SET.TOGGLE "Unformatted" 'ON EXPANDEDMENU)))
)

```

; initialize the button

(\TEDIT.EXPANDEDMENU.FN

[LAMBDA (OBJ MENUSEL MENUW MENUSTREAM)

```

; Edited 7-Jan-2025 17:44 by rmk
; Edited 20-Oct-2024 10:02 by rmk
; Edited 26-Aug-2024 09:32 by rmk
; Edited 11-Aug-2024 11:31 by rmk
; Edited 27-Jul-2024 11:42 by rmk

```

; Edited 20-Mar-2024 11:03 by rmk
; Edited 9-Mar-2024 11:43 by rmk
; Edited 22-Feb-2024 23:26 by rmk
; Edited 7-Feb-2024 23:07 by rmk
; Edited 29-Jan-2024 17:22 by rmk
; Edited 21-Oct-2022 18:46 by rmk
; Edited 30-Mar-94 15:46 by jds

;; MBFN for the items of the default TEdit menu (the "expanded" menu). This sets up the context to call the TEDIT.DEFAULTMENU.ACTIONFN,
;; which actually interprets the button.

```
(PROG* ((MAINTEXTSTREAM (\TEDIT.MAINSTREAM MENUSTREAM))
  (EDITOPACTIVE (GETTOBJ (GETTSTR MAINTEXTSTREAM TEXTOBJ)
    EDITOPACTIVE)))
  FORM PROC)
  (if (EQ EDITOPACTIVE T)
    then (TEDIT.PROMPTPRINT MAINTEXTSTREAM "Edit operation in progress; please wait." T)
    (RETURN))
  elseif EDITOPACTIVE
  then (TEDIT.PROMPTPRINT MAINTEXTSTREAM (CONCAT EDITOPACTIVE " operation in progress; please
    wait.")
    T)
    (CL:UNLESS (EQ EDITOPACTIVE (IMAGEOBJPROP OBJ 'LABEL))
    (RETURN)))
  (SETQ FORM (LIST (FUNCTION \TEDIT.EXPANDEDMENU.ACTIONFN)
    OBJ MENUSEL MENUW MENUSTREAM MAINTEXTSTREAM))
  (if [PROCESSP (SETQ PROC (WINDOWPROP (WINDOWPROP MENUW 'MAINWINDOW)
    'PROCESS)]
    then ;; The MAIN window has a live process behind it; Evaluate the button fn there.
    (PROCESS.EVAL PROC FORM)
    elseif [PROCESSP (SETQ PROC (WINDOWPROP MENUW 'PROCESS)]
    then ;; This menu window has a live process behind it; Evaluate the button fn here.
    (PROCESS.EVAL PROC FORM)
    else (ADD.PROCESS FORM))
  (TEDIT.BACKTOMAIN MENUSTREAM)
  ;; Tell the menu button handler not to turn off this button--it's still active and will turn itself off.
  (RETURN 'DON'T))
```

(\TEDIT.EXPANDEDMENU.ACTIONFN

```
[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM MAINSTREAM)
  ; Edited 5-Mar-2025 20:51 by rmk
  ; Edited 7-Jan-2025 22:36 by rmk
  ; Edited 26-Nov-2024 23:30 by rmk
  ; Edited 22-Oct-2024 10:54 by rmk
  ; Edited 20-Oct-2024 15:40 by rmk
  ; Edited 29-Sep-2024 12:53 by rmk
  ; Edited 2-Sep-2024 23:29 by rmk
  ; Edited 28-Aug-2024 19:19 by rmk
  ; Edited 12-Aug-2024 10:23 by rmk
  ; Edited 9-Aug-2024 22:43 by rmk
  ; Edited 27-Jul-2024 21:35 by rmk
  ; Edited 7-Jul-2024 00:01 by rmk
  ; Edited 30-Jun-2024 12:39 by rmk
  ; Edited 25-Jun-2024 11:59 by rmk
  ; Edited 2-May-2024 13:48 by rmk
  ; Edited 27-Feb-2024 07:54 by rmk
  ; Edited 14-Dec-2023 21:03 by rmk
  ; Edited 20-Sep-2023 23:14 by rmk
  ; Edited 6-May-2023 23:11 by rmk
  ; Edited 18-Apr-2023 23:58 by rmk
  ; Edited 30-Mar-94 16:04 by jds
  ; MBFN for TEdit default menu item buttons.
```

```
(LET ((MENUTEXTOBJ (TEXTOBJ! (fetch (TEXTSTREAM TEXTOBJ) of MENUSTREAM)))
  STATE)
  [ERSETQ (RESETLST
    [RESETSAVE (PROG1 OBJ
      (IMAGEOBJPROP OBJ 'MENUBUTTON.SELECTED T))
      '(AND (IMAGEOBJPROP OLDVALUE 'MENUBUTTON.SELECTED NIL)
      (SELECTQ (IMAGEOBJPROP OBJ 'IDENTIFIER)
        (PUT ; Only try this if he really typed a file name
          (SETQ STATE (MB.GET 'PUTFILE MENUTEXTOBJ 'STATE MENUSEL))
          (if STATE
            then (TEDIT.PUT MAINSTREAM STATE NIL (GETTEXTPROP MAINSTREAM
              'UNFORMATTEDPUT/GET))
            else (TEDIT.PROMPTPRINT MAINSTREAM "Put file not specified" T)))
          (GET (SETQ STATE (MB.GET 'GETFILE MENUTEXTOBJ 'STATE MENUSEL))
            (if STATE
              then (TEDIT.GET MAINSTREAM STATE (GETTEXTPROP MAINSTREAM 'UNFORMATTEDPUT/GET))
              else (TEDIT.PROMPTPRINT MAINSTREAM "Get file not specified" T)))
          (INCLUDE (SETQ STATE (MB.GET 'INCLUDEFILE MENUTEXTOBJ 'STATE MENUSEL))
            (if STATE
              then (TEDIT.INCLUDE MAINSTREAM STATE)
              else (TEDIT.PROMPTPRINT MAINSTREAM "Include file not specified" T)))
          (FIND (SETQ STATE (MB.GET 'FINDPATTERN MENUTEXTOBJ 'STATE MENUSEL))
            (if (IGEQ (NCHARS STATE)
```

```

1)
then (\TEDIT.KEY.FIND MAINSTREAM NIL NIL NIL STATE)
else (TEDIT.PROMPTPRINT MAINSTREAM "Search pattern not specified" T)))
(SUBSTITUTE [LET* [(STATES (MB.GET '(REPLACEMENT PATTERN CONFIRM USENEWLOOKS)
                                MENUTEXTOBJ
                                'STATE MENUSEL))
                  (REPLACEMENT (LISTGET STATES 'REPLACEMENT))
                  (PATTERN (LISTGET STATES 'PATTERN))
                  (CL:UNLESS (ZEROP (NCHARS PATTERN))
                              (SETQ REPLACEMENT (CL:IF (EQ 'ON (LISTGET STATES 'USENEWLOOKS))
                                                         (\TEDIT.SELPIECES REPLACEMENT NIL
                                                         MENUTEXTOBJ)
                                                         (TEDIT.SEL.AS.STRING MENUSTREAM
                                                         REPLACEMENT)))
                              [TEDIT.SUBSTITUTE MAINSTREAM PATTERN (OR REPLACEMENT "")
                              (EQ 'ON (LISTGET STATES 'CONFIRM))]])
(QUIT (\TEDIT.FINISHEDIT? MAINSTREAM) ; Is it OK to quit the main edit?
(PAGELAYOUT (\TEDIT.MENU.START (\TEDIT.PAGEMENU.CREATE) ; Page layout menu
            (\TEDIT.PRIMARYPANE MAINSTREAM)
            "Page Layout Menu"
            (HEIGHTIFWINDOW 135 5)
            'PAGE))
(PARALOOKS (\TEDIT.PARAMENU.START MAINSTREAM) ; Page layout menu
(CharLOOKS (\TEDIT.CHARMENU.START MAINSTREAM) ; Page layout menu
(ALL (TEDIT.SETSEL MAINSTREAM 1 (TEXTLEN (TEXTOBJ MAINSTREAM)) ; Select the entire document.
      'LEFT))
(HARDCOPY (LET* ((STATES (MB.GET '(SERVER COPIES SIDES MESSAGE/PHONE#)
                                MENUTEXTOBJ
                                'STATE MENUSEL))
                (SERVER (LISTGET STATES 'SERVER))
                (COPIES (LISTGET STATES 'COPIES))
                (SIDES (LISTGET STATES 'SIDES))
                (MSG (LISTGET STATES 'MESSAGE/PHONE#))
                PRINTOPTIONS)
          (CL:UNLESS (AND SERVER (SETQ SERVER (\TEDIT.MAKEFILENAME SERVER)))
                    (TEDIT.PROMPTPRINT MAINSTREAM "Using default print server."))
          (CL:WHEN COPIES
            (SETQ PRINTOPTIONS (LIST '%#COPIES COPIES)))
          (CL:WHEN SIDES
            (push PRINTOPTIONS '%#SIDES (SELECTQ SIDES
              (One% Side 1)
              (Duplex 2)
              NIL)))
          (CL:WHEN MSG
            (push PRINTOPTIONS 'MESSAGE (\TEDIT.MAKEFILENAME MSG)))
          (TEDIT.HARDCOPY MAINSTREAM NIL NIL NIL SERVER PRINTOPTIONS)))
(ERROR)))]
(SETSEL MENUSEL SET T) ; Now turn the menu button highlighting off.
(SETSEL MENUSEL ONFLG T)
(\TEDIT.SHOWSEL MENUSEL NIL MENUTEXTOBJ) ; And forget that anything is selected.
(SETSEL MENUSEL SET NIL])

```

(TEDIT.MENUSTREAM

[LAMBDA (TSTREAM)

; Edited 28-Aug-2024 15:48 by rmk
; Edited 10-Apr-2023 09:53 by rmk
(* jds "13-Aug-84 14:10")

:: returns the textstream of the teditmenu attached to this stream if any

```

(for w in (ATTACHEDWINDOWS (\TEDIT.MAINW TSTREAM)) when (TEDITMENUP W "Tedit Menu")
do (RETURN (TSTREAM W)))

```

)

::
::

:: PARAMENU

(DEFINEQ

(\TEDIT.PARAMENU.CREATE

[LAMBDA NIL

; Edited 7-Jan-2025 15:48 by rmk
; Edited 8-Nov-2024 08:35 by rmk
; Edited 20-Oct-2024 23:46 by rmk
; Edited 6-Oct-2024 15:35 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 31-Aug-2024 14:54 by rmk
; Edited 25-Aug-2024 23:47 by rmk
; Edited 24-Aug-2024 21:45 by rmk
; Edited 15-Aug-2024 12:17 by rmk
; Edited 14-Aug-2024 09:36 by rmk

; Edited 11-Aug-2024 17:46 by rmk
; Edited 5-Aug-2024 10:19 by rmk
; Edited 29-Jul-2024 23:47 by rmk
; Edited 27-Jul-2024 10:18 by rmk
(* jds " 2-Aug-84 15:32")

:: Creates the TEdit Expanded Paragraph Menu. (PROGN to suppress "value of comment used? compile-time messages.)

```
(PROGN ;; Hack so Masterscope knows that these otherwise quoted functions are here.
  (FUNCTION \TEDIT.APPLY.PARALOOKS)
  (FUNCTION \TEDIT.SHOW.PARALOOKS)
  (FUNCTION \TEDIT.MENU.NEUTRALIZE)
  (FUNCTION \TEDIT.TABTYPE.SET))
(\TEDIT.MENU.CREATE `( (ACTION (LABEL APPLY)
  (IGNORE T)
  (SELECTFN \TEDIT.APPLY.PARALOOKS))
3
(ACTION (LABEL SHOW)
  (IGNORE T)
  (SELECTFN \TEDIT.SHOW.PARALOOKS))
3
(ACTION (LABEL NEUTRAL)
  (IGNORE T)
  (SELECTFN \TEDIT.MENU.NEUTRALIZE))
EOL
(NWAY (IDENTIFIER QUAD)
  (BUTTONS (Left Right Centered Justified))
  (INITSTATE OFF))
TAB
(3STATE (IDENTIFIER TYPE)
  (LABEL "Page Heading"))
2
(FIELD (IDENTIFIER SUBTYPE)
  (PRELABEL "type")
  (FIELDTYPE SYMBOL))
EOL
(FIELD (IDENTIFIER LINELEADING)
  (PRELABEL "Line leading")
  (POSTLABEL "pts")
  (FIELDTYPE NUMBER)
  (LABELFONT (HELVETICA 8)))
(FIELD (PRELABEL " Para leading")
  (POSTLABEL "pts")
  (IDENTIFIER PARALEADING)
  (FIELDTYPE NUMBER)
  (LABELFONT (HELVETICA 8)))
(FIELD (IDENTIFIER SPECIALX)
  (PRELABEL " Special Locn: X")
  (POSTLABEL "picas")
  (FIELDTYPE PICAS)
  (LABELFONT (HELVETICA 8)))
(FIELD (IDENTIFIER SPECIALY)
  (PRELABEL " Y")
  (POSTLABEL "picas")
  (FIELDTYPE PICAS)
  (LABELFONT (HELVETICA 8)))
EOL
(TEXT (STRING "New Page: ")
  (FONT (HELVETICA 8)))
(3STATE (IDENTIFIER NEWPAGEBEFORE)
  (LABEL "Before"))
2
(3STATE (IDENTIFIER NEWPAGEAFTER)
  (LABEL "After"))
4
(3STATE (IDENTIFIER HEADINGKEEP)
  (LABEL "Keep heading"))
(TEXT (STRING " Display mode: ")
  (FONT (HELVETICA 8)))
(3STATE (LABEL "Hardcopy"))
4 EOL (TEXT (STRING "Tab Type: ")
  (FONT (HELVETICA 8)))
(NWAY (IDENTIFIER TABTYPE)
  (BUTTONS (Left Right Centered Decimal))
  (IGNORE T))
3
(TOGGLE (IDENTIFIER DOTTEDLEADER)
  (LABEL "Dotted Leader")
  (IGNORE T))
(FIELD (IDENTIFIER DEFAULTTAB)
  (PRELABEL " Default Tab:")
  (POSTLABEL "pts")
  (FIELDTYPE NUMBER)
  (LABELFONT (HELVETICA 8)))
EOL
((PROGN (TEDIT.INSERT.OBJECT (MARGINBAR.CREATE -0.5 -0.5 -39.5 NIL 12)
  MENUTSTREAM CH# ' (PROTECTED OFF))
```

1))
EOL])

(\TEDIT.PARAMENU.START

[LAMBDA (TSTREAM)

; Edited 7-Jan-2025 15:36 by rmk
; Edited 27-Jul-2024 00:06 by rmk
; Edited 25-Jun-2024 11:59 by rmk
; Edited 27-Feb-2024 07:53 by rmk
; Edited 19-Sep-2023 08:51 by rmk
; Edited 20-Aug-87 16:51 by jds

(\TEDIT.MENU.START (\TEDIT.PARAMENU.CREATE)

(\TEDIT.PRIMARYPANE TSTREAM)
"Paragraph-Looks Menu"
(HEIGHTIFWINDOW 141 T)
'PARALOOKS])

(\TEDIT.APPLY.PARALOOKS

[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)

; Edited 29-Dec-2024 20:16 by rmk
; Edited 20-Oct-2024 10:02 by rmk
; Edited 29-Sep-2024 14:57 by rmk
; Edited 25-Aug-2024 09:15 by rmk
; Edited 21-Aug-2024 12:28 by rmk
; Edited 11-Aug-2024 18:31 by rmk
; Edited 22-Apr-93 16:45 by jds

:: Handler for the Paragraph Menu's APPLY button.

(TEDIT.PROMPTCLEAR (\TEDIT.MAINSTREAM MENUSTREAM))
(\TEDIT.CHANGE.PARALOOKS (\TEDIT.MAINSTREAM MENUSTREAM)
(\TEDIT.MENU.PARSE MENUSTREAM))
(TEDIT.BACKTOMAIN MENUSTREAM])

(\TEDIT.SHOW.PARALOOKS

[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)

; Edited 20-Oct-2024 11:11 by rmk
; Edited 29-Sep-2024 14:59 by rmk
; Edited 25-Aug-2024 09:15 by rmk
; Edited 3-Aug-2024 19:05 by rmk
; Edited 27-Jul-2024 17:26 by rmk
; Edited 14-Jul-2024 11:57 by rmk
; Edited 11-Jul-2024 11:14 by rmk
; Edited 6-Jul-2024 23:40 by rmk
; Edited 25-Jun-2024 11:59 by rmk
; Edited 18-May-2024 17:15 by rmk
; Edited 27-Mar-2024 15:11 by rmk
; Edited 20-Jul-2023 17:00 by rmk
; Edited 3-May-2023 10:40 by rmk
; Edited 22-Aug-2022 13:17 by rmk
; Edited 30-May-91 22:17 by jds

:: Set the PARALOOKS menu from the fmts spec of the currently selected paragraph. MENUSTREAM is the displaystream of the paraloos menu window.

:: OBJ is unused, presumably to have a standard interface with other menu functions that update image objects.

(LET* ((MENUTEXTOBJ (GETTSTR MENUSTREAM TEXTOBJ))
(MAINTEXTOBJ (GETTSTR (\TEDIT.MAINSTREAM MENUSTREAM)
TEXTOBJ))
(MAINCH# (GETSEL (TEXTSEL MAINTEXTOBJ)
CH#))
(CL:WHEN (ILEQ MAINCH# (TEXTLEN MAINTEXTOBJ))
(RESETLST
(TEDIT.DEFER.UPDATES MENUSTREAM)
(\TEDIT.PARAMENU.FILLIN MENUSTREAM (PPARALOOKS (\TEDIT.CHTOPC MAINCH# MAINTEXTOBJ))))
(FSETSEL MENUSEL ONFLG T)
(\TEDIT.UPDATE.SEL (TEXTSEL MENUTEXTOBJ)
1 0 'LEFT)
(\TEDIT.FIXSEL (TEXTSEL MENUTEXTOBJ)
MENUTEXTOBJ)
(TEDIT.BACKTOMAIN MENUSTREAM)]))

(\TEDIT.PARAMENU.FILLIN

[LAMBDA (MENUSTREAM PARALOOKS)

; Edited 19-Feb-2025 13:27 by rmk
; Edited 8-Feb-2025 22:53 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 31-Aug-2024 11:29 by rmk
; Edited 25-Aug-2024 23:48 by rmk
; Edited 24-Aug-2024 21:46 by rmk
; Edited 16-Aug-2024 08:36 by rmk
; Edited 14-Aug-2024 00:15 by rmk
; Edited 9-Aug-2024 12:00 by rmk
; Edited 5-Aug-2024 00:40 by rmk

:: For the paragraph menu SHOW command, fills in the with values drawn from the PARALOOKS of the main documents selection. The strategy is to iterate through the image objects in the MENUTEXTOBJ and figure out from their property what aspect of PARALOOKS they depict.

```
(for PC OBJ VAL PROP SETSTATEFN inpieces (\TEDIT.FIRSTPIECE (GETTSTR MENUSTREAM TEXTOBJ))
  when [SETQ SETSTATEFN (AND (SETQ OBJ (POBJ PC))
    (SETQ PROP (IMAGEOBJPROP OBJ 'IDENTIFIER))
    (IMAGEOBJPROP OBJ 'SETSTATEFN)]
  do
    ;; These are the properties of the PARAMENU image objects.
    (SETQ VAL (SELECTQ PROP
      (QUAD (FGETPLOOKS PARALOOKS QUAD))
      (LINELEADING (FGETPLOOKS PARALOOKS LINELEAD))
      (PARALEADING (FGETPLOOKS PARALOOKS LEADBEFORE))
      (SPECIALX ; 0 means don't for these
        (CL:IF (AND (FGETPLOOKS PARALOOKS FMTSPECIALX)
          (IGREATERP (FGETPLOOKS PARALOOKS FMTSPECIALX)
            0))
          (FGETPLOOKS PARALOOKS FMTSPECIALX)
          '**EMPTY**))
      (SPECIALY (CL:IF (AND (FGETPLOOKS PARALOOKS FMTSPECIALY)
        (IGREATERP (FGETPLOOKS PARALOOKS FMTSPECIALY)
          0))
          (FGETPLOOKS PARALOOKS FMTSPECIALY)
          '**EMPTY**))
      (NEWPAGEBEFORE
        (FGETPLOOKS PARALOOKS FMTNEWPAGEBEFORE))
      (NEWPAGEAFTER (FGETPLOOKS PARALOOKS FMTNEWPAGEAFTER))
      (HEADINGKEEP (FGETPLOOKS PARALOOKS FMTHEADINGKEEP))
      (HARDCOPY (FGETPLOOKS PARALOOKS FMTHARDCOPY))
      (DEFAULTTAB (FGETPLOOKS PARALOOKS FMTDEFAULTTAB))
      (TABTYPE ; Doesn't change
        (IMAGEOBJPROP OBJ 'STATE))
      (TYPE ; Presumably PAGEHEADING here
        (CL:IF (EQ 'PAGEHEADING (FGETPLOOKS PARALOOKS FMTPARATYPE))
          'ON
          'OFF))
      (SUBTYPE (FGETPLOOKS PARALOOKS FMTPARASUBTYPE))
      (DOTTEDLEADER ; Ephemeral property of individual tabs
        'OFF)
      (MARGINBAR [\TEDIT.PARALOOKS.TO.MARBAR PARALOOKS (fetch (MARGINBAR MARUNIT)
        of (IMAGEOBJPROP OBJ 'OBJECTDATUM))]
      (TABTYPE (\TEDIT.THELP))
      (\TEDIT.THELP PROP)))
    ;; Eventually, replace SHOULDNT with SETQ SETSTATEFN NIL
    (CL:WHEN SETSTATEFN
      (SETQ PC (APPLY* SETSTATEFN PC VAL MENUSTREAM))
      (TEDIT.OBJECT.CHANGED MENUSTREAM OBJ)))
)
```

```
;;
;;
;; CHARMENU
```

```
(RPAQ? TEDIT.FONTDEVICES '(DISPLAY PDF POSTSCRIPT))
```

```
(DEFINEQ
```

```
(\TEDIT.CHARMENU.CREATE
```

```
[LAMBDA (TSTREAM)
```

```
; Edited 7-Jan-2025 15:48 by rmk
; Edited 16-Dec-2024 23:41 by rmk
; Edited 20-Oct-2024 22:22 by rmk
; Edited 6-Oct-2024 15:34 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 15-Aug-2024 12:11 by rmk
; Edited 14-Aug-2024 09:35 by rmk
; Edited 11-Aug-2024 17:46 by rmk
; Edited 9-Aug-2024 12:02 by rmk
; Edited 7-Aug-2024 23:14 by rmk
; Edited 29-Jul-2024 10:07 by rmk
; Edited 27-Jul-2024 12:11 by rmk
; Edited 24-Jul-2024 18:09 by rmk
; Edited 20-Aug-87 16:50 by jds
; Creates the TEdit Expanded Menu
```

```
;; Produces a CHARLOOKS menu specialized to TSTREAM
```

```
(PROGN ;; Hack so Masterscope knows that these otherwise quoted functions are here.
```

```
(FUNCTION \TEDIT.APPLY.CHARLOOKS)
(FUNCTION \TEDIT.SHOW.CHARLOOKS)
(FUNCTION \TEDIT.MENU.NEUTRALIZE))
```

```
(\TEDIT.MENU.CREATE `(ACTION (LABEL APPLY)
  (IGNORE T)
  (SELECTFN \TEDIT.APPLY.CHARLOOKS))
  3
  (ACTION (LABEL SHOW)
    (IGNORE T)
    (SELECTFN \TEDIT.SHOW.CHARLOOKS))
```

```

3
(ACTION (LABEL NEUTRAL)
        (IGNORE T)
        (SELECTFN \TEDIT.MENU.NEUTRALIZE))
EOL
,@ (\TEDIT.CHARMENU.SPEC TSTREAM)

```

(\TEDIT.CHARMENU.START

```
[LAMBDA (TSTREAM)
```

```

; Edited 7-Jan-2025 22:37 by rmk
; Edited 17-Dec-2024 00:04 by rmk
; Edited 25-Jun-2024 11:59 by rmk
; Edited 27-Feb-2024 07:56 by rmk
; Edited 20-Sep-2023 23:13 by rmk
; Edited 10-Oct-2022 00:23 by rmk
; Edited 20-Aug-87 16:49 by jds

```

:: Open a character-looks menu.

```

(\TEDIT.MENU.START (\TEDIT.CHARMENU.CREATE TSTREAM)
 (\TEDIT.PRIMARYPANE TSTREAM)
 "Character Looks Menu"
 (HEIGHTIFWINDOW 100 T)
 'CHARLOOKS])

```

(\TEDIT.CHARMENU.SPEC

```
[LAMBDA (TSTREAM)
```

```

; Edited 26-Jan-2025 22:05 by rmk
; Edited 10-Jan-2025 10:49 by rmk
; Edited 3-Jan-2025 11:21 by rmk
; Edited 1-Jan-2025 09:38 by rmk
; Edited 28-Dec-2024 12:42 by rmk
; Edited 22-Dec-2024 00:22 by rmk
; Edited 20-Dec-2024 12:27 by rmk
; Edited 17-Dec-2024 14:32 by rmk
; Edited 8-Nov-2024 08:35 by rmk
; Edited 6-Oct-2024 21:36 by rmk
; Edited 29-Sep-2024 21:45 by rmk
; Edited 31-Aug-2024 14:35 by rmk
; Edited 27-Jul-2024 10:16 by rmk

```

:: This is shared by the CHARLOOKS and PAGE menus (for page numbers).

:: Note: PAGEMENU.CHARLOOKS.STATEFN assumes that DISTANCE is a later object

```

(PROGN
  ;; Hack so Masterscope knows that these otherwise quoted functions are here.
  (FUNCTION \TEDIT.OFFSETTYPE.STATEFN)
  (FUNCTION \TEDIT.OTHER.STATECHANGEFN)
  (FUNCTION \TEDIT.OTHER.SELECTFN))
(LET [[FONTFAMILIES (APPEND ' (Classic Helvetica Modern Terminal TimesRoman)
    (FONTDEVICES (CONS 'All (for D in TEDIT.FONTDEVICES collect (CL:IF (EQ 'PDF D)
        'PDF
        (L-CASE D T))))])
  (CL:WHEN (TEXTOBJ TSTREAM T)
    [SETQ FONTFAMILIES (UNION FONTFAMILIES (TEXTPROP TSTREAM 'FAMILIES)
      (for C N in (FGETTOBJ (TEXTOBJ TSTREAM)
        TXTCHARLOOKSLIST)
        eachtime (SETQ N (L-CASE (FONTPROP (GETCLOOKS C CLFONT)
          'FAMILY)
          T))
        unless (thereis F in FONTFAMILIES suchthat (EQ N (L-CASE F T))) do (push FONTFAMILIES N)
        finally (SORT FONTFAMILIES)))]
    `((NWAY (IDENTIFIER DEVICE)
      (BUTTONS ,FONTDEVICES)
      (MAXITEMS/LINE 7)
      (INITSTATE ALL))
      EOL 5 (NWAY (IDENTIFIER FAMILY)
        (BUTTONS ,FONTFAMILIES)
        (MAXITEMS/LINE 7))
      EOL 15 (TOGGLE (LABEL Other)
        (IGNORE T)
        (STATECHANGEFN \TEDIT.OTHER.STATECHANGEFN)
        (SELECTFN \TEDIT.OTHER.SELECTFN))
      3
      (FIELD (IDENTIFIER OTHERFAMILY)
        (IGNORE T)
        (PRELABEL "other family:")
        (FIELDTYPE SYMBOL)
        (EMPTYVALUE NIL))
      EOL 4 (3STATE (LABEL Bold))
      3
      (3STATE (LABEL Italic))
      3
      (FIELD (PRELABEL "Size:")
        (FIELDTYPE NUMBER))
      EOL
      (NWAY (IDENTIFIER OFFSETTYPE)
        (BUTTONS (Normal Superscript Subscript))
        (STATEFN \TEDIT.OFFSETTYPE.STATEFN))

```

```
(FIELD (IDENTIFIER DISTANCE)
(PRELABEL " distance:")
(POSTLABEL " ")
(FIELDTYPE CARDINAL)
(INITSTATE 2)
(EMPTYVALUE 2)
(IGNORE T))
EOL
(3STATE (LABEL Underline))
3
(3STATE (LABEL Strikeout))
3
(3STATE (LABEL Overline))
3
(3STATE (LABEL Unbreakable))
1])
```

(\TEDIT.CHARMENU.PARSE

```
[LAMBDA (MENUSTREAM CH#)
```

```
; Edited 29-Sep-2024 12:53 by rmk
; Edited 28-Aug-2024 16:12 by rmk
; Edited 16-Aug-2024 08:37 by rmk
; Edited 9-Aug-2024 17:59 by rmk
; Edited 6-Aug-2024 10:43 by rmk
; Edited 2-Aug-2024 18:00 by rmk
; Edited 27-Jul-2024 21:57 by rmk
; Edited 26-Jul-2024 16:29 by rmk
; Edited 25-Jul-2024 12:02 by rmk
; Edited 2-May-2024 13:48 by rmk
; Edited 10-Apr-2024 10:18 by rmk
; Edited 25-Feb-2024 22:26 by rmk
; Edited 24-Jul-2023 17:10 by rmk
; Edited 30-May-91 22:18 by jds
```

:: MBFN for TEdit charlooks menu buttons. For a new font, this does not change the menu if the font doesn't exist.

```
(LET ((TEXTOBJ (TEXTOBJ MENUSTREAM))
NEWLOOKS TEXT OFFSET DISTANCE FONTCLASS)
```

```
[SETQ NEWLOOKS (for PC OBJ PROP STATE STATEFN inpieces (CL:IF CH#
(\TEDIT.CHTOPC CH# TEXTOBJ)
(\TEDIT.FIRSTPIECE TEXTOBJ))
when [SETQ PROP (AND (SETQ OBJ (POBJ PC))
(IMAGEOBJPROP OBJ 'IDENTIFIER)
join (CL:WHEN (SETQ STATEFN (IMAGEOBJPROP OBJ 'STATEFN))
(SETQ PC (APPLY* STATEFN PC OBJ TEXTOBJ))
(CL:UNLESS (IMAGEOBJPROP OBJ 'DONTAPPLY)
; Presumably used by someone else to set the menu, not the
; document directly, so we don't return anything
(SETQ STATE (IMAGEOBJPROP OBJ 'STATE))
(CL:WHEN (AND STATE (NEQ 'NEUTRAL STATE))
; Don't propagate NIL or NEUTRAL. OFF means off. LISTP CAR
; means a sub-property list
(CL:IF (LISTP (CAR STATE))
(APPEND (CAR STATE))
(LIST PROP STATE)))))]
NEWLOOKS])
```

(\TEDIT.CHARMENU.FILLIN

```
[LAMBDA (STARTINGPC CHARLOOKS MENUSTREAM)
```

```
; Edited 1-Jan-2025 15:24 by rmk
; Edited 28-Dec-2024 12:48 by rmk
; Edited 20-Dec-2024 12:18 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 20-Oct-2024 00:03 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 16-Aug-2024 10:16 by rmk
; Edited 3-Aug-2024 14:34 by rmk
```

:: Given a TEXTOBJ describing a charlooks(sub) menu and a source CHARLOOKS, fill in the menu fields. The strategy is to iterate through the image objects in the MENUTEXTOBJ and figure out from their property what aspect of CHARLOOKS they depict.
:: If the CHARLOOKS are not at the end of the file, the run of charlooks image objects should be followed by a fence post that causes a return with the fence post PC.

```
(CL:WHEN CHARLOOKS
(for PC OBJ VAL SETSTATEFN FONT DEVICE inpieces (CL:IF STARTINGPC
(NEXTPIECE STARTINGPC)
(\TEDIT.FIRSTPIECE (GETTSTR MENUSTREAM TEXTOBJ)))
first (SETQ FONT (FGETCLOOKS CHARLOOKS CLFONT))
(SETQ DEVICE (MB.GET 'DEVICE MENUSTREAM 'STATE))
(CL:WHEN (type? FONTCLASS FONT)
(CL:WHEN (MEMB DEVICE '(OFF ALL))
(TEDIT.PROMPTPRINT MENUSTREAM "Please specify a particular display/hardcopy format" T)
(RETURN))
(SETQ FONT (FONTCREATE FONT NIL NIL NIL DEVICE)))
when [AND (SETQ OBJ (POBJ PC))
(NEQ 'DEVICE (IMAGEOBJPROP OBJ 'IDENTIFIER))
(SETQ SETSTATEFN (IMAGEOBJPROP OBJ 'SETSTATEFN)
do :: These are the properties of the CHARMENU image objects
```

```
[SETQ VAL (SELECTQ (IMAGEOBJPROP OBJ 'IDENTIFIER)
  (FAMILY (L-CASE (FONTPROP FONT 'FAMILY)
    T))
  (SIZE (FONTPROP FONT 'SIZE))
  (BOLD [EQ 'BOLD (CAR (FONTPROP FONT 'FACE))
  (ITALIC [EQ 'ITALIC (CADR (FONTPROP FONT 'FACE))
  (UNDERLINE (FGETCLOOKS CHARLOOKS CLULINE))
  (STRIKEOUT (FGETCLOOKS CHARLOOKS CLSTRIKE))
  (OVERLINE (FGETCLOOKS CHARLOOKS CLOLINE))
  (UNBREAKABLE (FGETCLOOKS CHARLOOKS CLUNBREAKABLE))
  (OFFSETTYPE (CL:WHEN (SETQ VAL (FGETCLOOKS CHARLOOKS CLOFFSET))
    (if (IGREATERP VAL 0)
      then 'SUPERSCRIPT
      elseif (ILESSP VAL 0)
      then 'SUBSCRIPT
      else 'NORMAL)))
  ((OTHER OTHERFAMILY)
    NIL)
  (DISTANCE (CL:UNLESS (ZEROP (FGETCLOOKS CHARLOOKS CLOFFSET))
    (ABS (FGETCLOOKS CHARLOOKS CLOFFSET))))
  (\TEDIT.THELP (IMAGEOBJPROP OBJ 'IDENTIFIER]
```

:: Eventually, replace SHOULDNT with SETQ SETSTATEFN NIL

```
(CL:WHEN SETSTATEFN
  (SETQ PC (PROG1 (APPLY* SETSTATEFN PC VAL MENUSTREAM)
    ; Provide OBJ's PC for the change
    (TEDIT.OBJECT.CHANGED MENUSTREAM OBJ PC)))
  finally (RETURN PC)))
```

(\TEDIT.SHOW.CHARLOOKS

```
[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)
```

```
; Edited 31-Dec-2024 21:25 by rmk
; Edited 2-Nov-2024 20:16 by rmk
; Edited 20-Oct-2024 09:55 by rmk
; Edited 29-Sep-2024 14:59 by rmk
; Edited 25-Aug-2024 09:13 by rmk
; Edited 7-Aug-2024 13:58 by rmk
; Edited 3-Aug-2024 19:06 by rmk
; Edited 27-Jul-2024 17:26 by rmk
; Edited 14-Jul-2024 11:57 by rmk
; Edited 11-Jul-2024 11:14 by rmk
; Edited 6-Jul-2024 23:40 by rmk
; Edited 25-Jun-2024 11:59 by rmk
; Edited 18-May-2024 17:15 by rmk
; Edited 27-Mar-2024 15:11 by rmk
; Edited 20-Jul-2023 17:00 by rmk
; Edited 3-May-2023 10:40 by rmk
; Edited 22-Aug-2022 13:17 by rmk
; Edited 30-May-91 22:17 by jds
```

:: Set the CHARLOOKS menu from the looks of the currently selected character. MENUSTREAM is the displaystream of the charlooks menu window, or the page-format menu that also has a character looks section for page numbers.

:: OBJ is unused, presumably to have a standard interface with other menu functions that update image objects.

```
(LET* ((MENUTEXTOBJ (GETTSTR MENUSTREAM TEXTOBJ))
  (MAINTEXTOBJ (GETTSTR (\TEDIT.MAINSTREAM MENUSTREAM)
    TEXTOBJ))
  (MAINCH# (GETSEL (TEXTSEL MAINTEXTOBJ)
    CH#)))
  (TEDIT.PROMPTCLEAR MENUSTREAM)
  (CL:WHEN (ILEQ MAINCH# (TEXTLEN MAINTEXTOBJ))
    (RESETLST
      (TEDIT.DEFER.UPDATES MENUSTREAM)
      (\TEDIT.CHARMENU.FILLIN (\TEDIT.FIRSTPIECE MENUTEXTOBJ)
        (PLOOKS (\TEDIT.CHTOPC MAINCH# MAINTEXTOBJ)
          MENUSTREAM))
      (FSETSEL MENUSEL ONFLG T)
      (\TEDIT.UPDATE.SEL MENUSEL 1 0 'LEFT)
      (\TEDIT.FIXSEL MENUSEL MENUTEXTOBJ))
      (TEDIT.BACKTOMAIN MENUSTREAM]))
```

; Fill in the menu objects and fields with that info

(\TEDIT.APPLY.CHARLOOKS

```
[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)
```

```
; Edited 29-Dec-2024 20:13 by rmk
; Edited 20-Oct-2024 09:39 by rmk
; Edited 6-Oct-2024 15:39 by rmk
; Edited 29-Sep-2024 14:56 by rmk
; Edited 15-Mar-2024 13:34 by rmk
; Edited 18-Apr-2023 23:55 by rmk
; Edited 21-Oct-2022 18:47 by rmk
; Edited 30-May-91 22:17 by jds
```

:: Handler for the Character Menu's APPLY button.

```
(TEDIT.PROMPTCLEAR (\TEDIT.MAINSTREAM MENUSTREAM))
(\TEDIT.CHANGE.CHARLOOKS (\TEDIT.MAINSTREAM MENUSTREAM)
  (\TEDIT.MENU.PARSE MENUSTREAM))
(TEDIT.BACKTOMAIN MENUSTREAM))
```

(\TEDIT.OFFSETTYPE.STATEFN

[LAMBDA (TYPEPC TYPEOBJ TEXTOBJ)

; Edited 22-Oct-2024 12:53 by rmk
; Edited 6-Oct-2024 17:44 by rmk
; Edited 29-Sep-2024 12:57 by rmk
; Edited 31-Aug-2024 14:15 by rmk
; Edited 28-Aug-2024 19:14 by rmk
; Edited 12-Aug-2024 10:23 by rmk
; Edited 9-Aug-2024 23:15 by rmk
; Edited 6-Aug-2024 10:39 by rmk
; Edited 2-Aug-2024 13:22 by rmk

:: STATEFN for the OFFSETTYPE NWAY button. This coerces the button's state from e.g. (OFFSETTYPE SUPERSCRIPT) to (SUPERSCRIPT
;; 5) if DISTANCE is 5. Distance comes from the DISTANCE field later in the menu.

[LET ((SELECTED (IMAGEOBJPROP TYPEOBJ 'SELECTED))
DISTANCE)
(CL:WHEN SELECTED
(SETQ DISTANCE (IMAGEOBJPROP (MB.GET 'DISTANCE TEXTOBJ 'OBJECT TYPEPC)
'STATE))
(IMAGEOBJPROP TYPEOBJ 'STATE (CONS (SELECTQ (IMAGEOBJPROP SELECTED 'IDENTIFIER)
(SUPERSCRIPT (LIST 'SUPERSCRIPT DISTANCE))
(SUBSCRIPT (LIST 'SUBSCRIPT DISTANCE))
(NORMAL NIL)
(LIST 'SUPERSCRIPT 0))
NIL))))))
TYPEPC])

(\TEDIT.OTHER.STATECHANGEFN

[LAMBDA (OTHEROBJ NEWSTATE MENUSTREAM MENUSEL)

; Edited 28-Dec-2024 12:18 by rmk
; Edited 22-Oct-2024 12:30 by rmk
; Edited 20-Oct-2024 17:59 by rmk
; Edited 19-Oct-2024 11:55 by rmk
; Edited 7-Sep-2024 13:25 by rmk
; Edited 31-Aug-2024 14:24 by rmk

:: Don't turn OTHER on unless OTHERFAMILY looks good. If it's good, the OTHER.SELECTFN will move it to the FAMILY list and empty the
;; OTHERFAMILY.

(CL:WHEN (EQ 'ON NEWSTATE)
(LET ((OTHERFAM (MB.GET 'OTHERFAMILY MENUSTREAM 'STATE MENUSEL)))
(if (NULL OTHERFAM)
then (TEDIT.PROMPTPRINT MENUSTREAM "OTHER font is not specified" T T)
'DON'T
elseif [AND (BOUNDP (U-CASE OTHERFAM))
(type? FONTCLASS (GETATOMVAL (U-CASE OTHERFAM))
then (TEDIT.PROMPTPRINT MENUSTREAM "Please use TEDIT.LOOKS to install a fontclass" T T)
'DON'T
elseif (FONTSAVAILABLE OTHERFAM '* '* 0 'DISPLAY T)
else (TEDIT.PROMPTPRINT MENUSTREAM (CONCAT "Can't find OTHER font " OTHERFAM)
T T)
'DON'T))))))

(\TEDIT.OTHER.SELECTFN

[LAMBDA (OTHEROBJ MENUDS MENUSEL MENUSTREAM)

; Edited 22-Dec-2024 00:22 by rmk
; Edited 7-Nov-2024 21:55 by rmk
; Edited 22-Oct-2024 12:38 by rmk
; Edited 20-Oct-2024 22:11 by rmk

:: If OTHER is selected, turn off any other family. Family is before, OTHERFAMILY is after.

(CL:WHEN (EQ 'ON (IMAGEOBJPROP OTHEROBJ 'STATE))
[LET* ((FAMARG (MB.GET 'FAMILY MENUSTREAM '(OBJECT STARTPC)
MENUSEL T))
(OTHERFAMARG (MB.GET 'OTHERFAMILY MENUSTREAM '(OBJECT STARTPC)
MENUSEL))
(OTHERFAMOBJ (CAR OTHERFAMARG))
(OTHERFAM (L-CASE (IMAGEOBJPROP OTHERFAMOBJ 'STATE)
T))
(MAINTEXTOBJ (TEXTOBJ (\TEDIT.MAINSTREAM MENUSTREAM)
T)))
(APPLY* (IMAGEOBJPROP (CAR FAMARG)
'SETSTATEFN)
(CADR FAMARG)
OTHERFAM MENUSTREAM)

:: Note: OTHER must be turned off before the OTHERFAM field is cleared: clearing moves MENUSEL.

(APPLY* (IMAGEOBJPROP OTHEROBJ 'SETSTATEFN)
MENUSEL
'OFF MENUSTREAM)
(APPLY* (IMAGEOBJPROP OTHERFAMOBJ 'SETSTATEFN)
(CADR OTHERFAMARG)
NIL MENUSTREAM)
(CL:WHEN MAINTEXTOBJ ; Save families for future menu creation
[\TEDIT.TEXTPROP MAINTEXTOBJ 'FAMILIES T (UNION (CONS OTHERFAM)
(\TEDIT.TEXTPROP MAINTEXTOBJ 'FAMILIES))]))

)

::
::
:: PAGEMENU

(DEFINEQ

(\TEDIT.PAGEMENU.CREATE

[LAMBDA (TSTREAM)

; Edited 27-Jan-2025 08:51 by rmk
; Edited 7-Jan-2025 15:47 by rmk
; Edited 5-Jan-2025 16:02 by rmk
; Edited 4-Jan-2025 00:34 by rmk
; Edited 17-Dec-2024 00:08 by rmk
; Edited 20-Oct-2024 23:47 by rmk
; Edited 6-Oct-2024 15:35 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 15-Aug-2024 23:13 by rmk
; Edited 14-Aug-2024 09:35 by rmk
; Edited 10-Aug-2024 00:16 by rmk
; Edited 30-Jul-2024 00:10 by rmk
; Edited 27-Jul-2024 11:28 by rmk
; Edited 24-Jul-2024 18:09 by rmk
(* gbn "8-Oct-84 18:25")

:: Creates the TEdit Page Menu

(PROGN ;; Hack so Masterscope knows that these otherwise quoted functions are here.

(FUNCTION \TEDIT.APPLY.PAGELOOKS)
(FUNCTION \TEDIT.SHOW.PAGELOOKS)
(FUNCTION \TEDIT.PAGEMENU.CHARLOOKS.STATEFN)
(FUNCTION \TEDIT.PAGEMENU.HEADINGS.STATEFN)
(FUNCTION \TEDIT.PAGEMENU.CHARLOOKS.STATEFN)
(FUNCTION \TEDIT.CHARMENU.FILLIN)
(FUNCTION \TEDIT.PAGEMENU.HEADINGS.SETSTATEFN))

(\TEDIT.MENU.CREATE `(ACTION (LABEL APPLY)
 (IGNORE T)
 (SELECTFN \TEDIT.APPLY.PAGELOOKS))
3
(ACTION (LABEL SHOW)
 (IGNORE T)
 (SELECTFN \TEDIT.SHOW.PAGELOOKS))
EOL "Paper Size: " (NWAY (IDENTIFIER PAPERSIZE)
 (BUTTONS (Letter Legal A4))
 (INITSTATE Letter))
8
(TOGGLE (LABEL "Landscape"))
7
(FIELD (IDENTIFIER STARTINGPAGE#)
 (PRELABEL "Starting page #:")
 (LABELFONT (HELVETICA 10))
 (INITSTATE 1)
 (FIELDTYPE POSITIVENUMBER))
EOL
(TEXT (STRING "For page: ")
 (FONT (HELVETICA 10)))
(NWAY (IDENTIFIER PAGEID)
 (BUTTONS (|First(&Default) | Other% Left Other% Right)))
EOL
;;
;; Page numbers
5
(TEXT (STRING "Page numbers: ")
 (FONT (HELVETICA 10)))
(NWAY (IDENTIFIER PAGENOS)
 (BUTTONS (No Yes))
 (INITSTATE Yes))
EOL
;;
;; Margins
EOL 5 (TEXT (STRING "Margins: ")
 (FONT (HELVETICA 10)))
(FIELD (IDENTIFIER LEFTMARGIN)
 (PRELABEL "Left")
 (POSTLABEL "picas")
 (INITSTATE 6)
 (FIELDTYPE NUMBER))
(FIELD (IDENTIFIER RIGHTMARGIN)
 (PRELABEL " Right")
 (POSTLABEL "picas")
 (INITSTATE 6)
 (FIELDTYPE NUMBER))
(FIELD (IDENTIFIER TOPMARGIN)
 (PRELABEL " Top")


```

        (POSTLABEL "picas")
        (INITSTATE 6)
        (FIELDTYPE NUMBER))
(FIELD (IDENTIFIER BOTTOMMARGIN)
(PRELABEL " Bottom")
(POSTLABEL "picas")
(INITSTATE 6)
(FIELDTYPE NUMBER))
;;
;; Columns
EOL 5 (FIELD (IDENTIFIER COLUMNS)
(PRELABEL "Columns:")
(LABELFONT (HELVETICA 10))
(INITSTATE 1)
(FIELDTYPE POSITIVENUMBER))
4
(FIELD (IDENTIFIER COLWIDTH)
(PRELABEL "Col width")
(POSTLABEL "picas")
(FIELDTYPE NUMBER))
4
(FIELD (IDENTIFIER SPACEBETWEENCOLUMNS)
(PRELABEL "Space between cols:")
(POSTLABEL "picas")
(FIELDTYPE NUMBER))
;;
;; Page headings
EOL EOL (ACTION (IDENTIFIER HEADINGS)
(LABEL "Page Headings:")
(FONT (HELVETICA 8 BOLD))
(SELECTFN NIL)
(STATEFN \TEDIT.PAGEMENU.HEADINGS.STATEFN)
(SETSTATEFN \TEDIT.PAGEMENU.HEADINGS.SETSTATEFN))
,@ (\TEDIT.PAGEMENU.CREATE.HEADINGS 8)
EOL EOL (ACTION (IDENTIFIER CHARLOOKS)
(LABEL "Font for page numbers:")
(FONT (HELVETICA 8 BOLD))
(STATEFN \TEDIT.PAGEMENU.CHARLOOKS.STATEFN (FUNCTION
\TEDIT.PAGEMENU.HEADINGS.STATEFN
)))
(SETSTATEFN \TEDIT.CHARMENU.FILLIN))
EOL
,@ (\TEDIT.CHARMENU.SPEC TSTREAM])

```

(\TEDIT.SHOW.PAGELOOKS

[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)

```

; Edited 22-Oct-2024 11:04 by rmk
; Edited 20-Oct-2024 17:32 by rmk
; Edited 29-Sep-2024 15:10 by rmk
; Edited 30-Aug-2024 23:58 by rmk
; Edited 25-Aug-2024 09:06 by rmk
; Edited 20-Aug-2024 15:26 by rmk
; Edited 9-Aug-2024 13:51 by rmk

```

:: Set the page layout menu from the looks of the currently selected page-type. MENUSTREAM is the displaystream of the pagelooks menu
:: window.

:: OBJ is unused, presumably to have a standard interface with other menu functions that update image objects.

```

(PROG [(PAGEID (MB.GET 'PAGEID MENUSTREAM 'STATE]
(CL:WHEN (MEMB PAGEID '(NIL OFF))
(TEDIT.PROMPTPRINT MENUWINDOW "Please specify the page-type" T T)
(RETURN))
(RESETLST
(TEDIT.DEFER.UPDATES MENUSTREAM)
(\TEDIT.PAGEMENU.FILLIN MENUSTREAM (\TEDIT.PAGEREGION.UNPARSE (\TEDIT.MAINSTREAM MENUSTREAM)
PAGEID)))
(FSETSEL MENUSEL ONFLG T)
(\TEDIT.UPDATE.SEL MENUSEL 1 0 'LEFT)
(\TEDIT.FIXSEL MENUSEL (GETTSTR MENUSTREAM TEXTOBJ))
(TEDIT.BACKTOMAIN MENUSTREAM)])

```

(\TEDIT.PAGEMENU.FILLIN

[LAMBDA (MENUSTREAM PAGELOOKS)

```

; Edited 29-Sep-2024 12:53 by rmk
; Edited 16-Aug-2024 10:20 by rmk
; Edited 9-Aug-2024 13:37 by rmk
; Edited 3-Aug-2024 14:34 by rmk

```

:: Given a TEXTOBJ describing a page layout menu, and a PAGELOOKS property list from the main document, fill in the menu fields. The strategy
:: is to iterate through the image objects in the MENUTEXTOBJ and figure out from their property what aspect of PAGELOOKS they depict.

```

(for PC OBJ SETSTATEFN inpieces (\TEDIT.FIRSTPIECE (fetch (TEXTSTREAM TEXTOBJ) of MENUSTREAM))
when [AND (SETQ OBJ (POBJ PC))
(SETQ SETSTATEFN (IMAGEOBJPROP OBJ 'SETSTATEFN))

```

do :: These are the properties of the PAGEMENU image objects. The SETSTATEFNs for HEADINGS and CHARLOOKS deal with their
:: menu representations.

```
(CL:WHEN SETSTATEFN ; Provide OBJ's PC for the change
  (SETQ PC (PROG1 (APPLY* SETSTATEFN PC (CDR (ASSOC (IMAGEOBJPROP OBJ 'IDENTIFIER)
    PAGELOOKS)))
    MENUSTREAM)
  (TEDIT.OBJECT.CHANGED MENUSTREAM OBJ))))
```

(\TEDIT.PAGEREGION.UNPARSE

```
[LAMBDA (TSTREAM PAGEID) ; Edited 30-Aug-2024 23:48 by rmk
; Edited 15-Aug-2024 22:52 by rmk
; Edited 10-Aug-2024 20:49 by rmk
; Edited 8-Aug-2024 23:27 by rmk
```

:: The top PAGEREGION defines the page. Dimensions are height and width in REGIONSPEC, PAGESIZE (Letter...) and FOLIO information are in REGIONLOCALINFO.

```
::
(PROG* [(PAGEREGION (TEDIT.GET.PAGEFORMAT TSTREAM PAGEID))
(PAPER (fetch (PAGEREGION REGIONSPEC) of PAGEREGION))
(LOCALINFO (fetch (PAGEREGION REGIONLOCALINFO) of PAGEREGION))
(PAGELOOKS (LIST (CONS 'PAGEID PAGEID])
```

:: The top PAGEREGION defines the page. Dimensions are height and width in REGIONSPEC, PAGESIZE (Letter...) and FOLIO information are in REGIONLOCALINFO. The paper dimension height/width are implied by PAPERSIZE, don't need to be saved. But are needed for the margins.

```
(CL:UNLESS (EQ 'PAGE (fetch (PAGEREGION REGIONFILLMETHOD) of PAGEREGION)) ; Don't know what to do if not a page.
  (RETURN))
(PUTASSOC 'PAPERSIZE (LISTGET LOCALINFO 'PAPERSIZE)
  PAGELOOKS)
(PUTASSOC 'LANDSCAPE (LISTGET LOCALINFO 'LANDSCAPE?)
  PAGELOOKS)
(PUTASSOC 'FOLIOFORMAT (SELECTQ (CAR (LISTGET LOCALINFO 'FOLIOINFO))
  (ARABIC '|123|)
  (LOWERROMAN 'xiv)
  (UPPERROMAN 'XIV)
  '|123|)
  PAGELOOKS)
(PUTASSOC 'FOLIOPRETEXT (CADR (LISTGET LOCALINFO 'FOLIOINFO))
  PAGELOOKS)
(PUTASSOC 'FOLIOPOSTTEXT (CADDR (LISTGET LOCALINFO 'FOLIOINFO))
  PAGELOOKS)
```

```
(for BOX REGION SPECS PAGENUMBERX PQUAD LEFT HEADINGS RIGHTINCR COLWIDTH (COLUMNS _ 0)
  (INTERCOL _ 0) in (fetch (PAGEREGION REGIONSUBBOXES) of PAGEREGION)
```

do :: Run thru the boxes on the page, calculating information about the page as a whole.

```
(SETQ REGION (fetch REGIONSPEC of BOX))
(SELECTQ (fetch (PAGEREGION REGIONFILLMETHOD) of BOX)
  (FOLIO ; A page-number ("Folio") region. Shoul be only one
```

```
(PUTASSOC 'PAGENOS 'Yes PAGELOOKS)
(SETQ SPECS (fetch REGIONLOCALINFO of BOX))
```

:: This should be done whenever the pageframe is created.

```
(PUTASSOC 'CHARLOOKS (\TEDIT.PARSE.CHARLOOKS.LIST (LISTGET SPECS 'CHARLOOKS)
  TEDIT.DEFAULT.FOLIO.LOOKS)
```

```
(SETQ PQUAD (LISTGET (LISTGET SPECS 'PARALOOKS)
  'QUAD))
```

```
(PUTASSOC 'QUAD PQUAD PAGELOOKS)
(SETQ PAGENUMBERX (fetch (REGION LEFT) of REGION))
```

:: RMK: Very odd: why 4 and 2 inches here? The formatter knows how to shift. Problem is that X specifies the left edge of the page region?

```
(SELECTQ PQUAD
  (LEFT)
  (RIGHT (add PAGENUMBERX (ITIMES 4 PTSPERINCH)))
  (CENTERED (add PAGENUMBERX (ITIMES 2 PTSPERINCH))))
NIL)
```

```
(PUTASSOC 'PAGENUMBERX (FQUOTIENT PAGENUMBERX PTSPERPICA)
  PAGELOOKS)
```

```
(PUTASSOC 'PAGENUMBERY (FQUOTIENT (fetch (REGION BOTTOM) of REGION)
  PTSPERPICA)
```

```
PAGELOOKS))
```

(HEADING :: A page-heading region, could be several. Their type/x/y values are collect in a flat list inside a HEADINGS property. \TEDIT.PAGEMENU.HEADINGS.SETSTATEFN pops them off to fill in the successive heading blocks.

```
[SETQ HEADINGS (NCONC HEADINGS (LIST (CONS 'HEADINGTYPE
  (LISTGET (fetch REGIONLOCALINFO
    of BOX)
    'HEADINGTYPE))
  (CONS 'HEADINGX (FQUOTIENT
    (fetch (REGION LEFT)
    of REGION)
    PTSPERPICA))
  (CONS 'HEADINGY (FQUOTIENT
    (fetch (REGION BOTTOM)
```

of REGION)
PTSPERPICA])

```
(TEXT ;; A regular-text region=column.
  (add COLUMNS 1)
  (SELECTQ COLUMNS
    (1 (SETQ COLWIDTH (fetch (REGION WIDTH) of REGION))
      ; All have same width (points)
      (SETQ RIGHTINCR (fetch (REGION LEFT) of REGION))
      ; Left of first column relative to paper's edge
      ;; First column gives the left, bottom, and top margins. Note: no FIXR so e.g. 6.5 picas. right margin
      ;; depends on columns
      (PUTASSOC 'LEFTMARGIN (FQUOTIENT RIGHTINCR PTSPERPICA)
        PAGELOOKS)
      (PUTASSOC 'BOTTOMMARGIN (FQUOTIENT (fetch (REGION BOTTOM) of REGION)
        PTSPERPICA)
        PAGELOOKS)
      (PUTASSOC 'TOPMARGIN (FQUOTIENT (IDIFFERENCE (fetch (REGION HEIGHT)
        of PAPER)
        (fetch (REGION PTOP) of REGION))
        PTSPERPICA)
        PAGELOOKS)
      ; More than 1, constant INTERCOL
      (2 (SETQ INTERCOL (IDIFFERENCE (fetch (REGION LEFT) of REGION)
        RIGHTINCR)))
        ; INTERCOL starts at 0, for first/only column
        (add RIGHTINCR COLWIDTH INTERCOL))
      NIL)
  (add RIGHTINCR COLWIDTH INTERCOL))
  NIL)
finally (CL:UNLESS (CDR (ASSOC 'PAGENOS PAGELOOKS))
  (PUTASSOC 'PAGENOS 'No PAGELOOKS))
  (PUTASSOC 'RIGHTMARGIN (FQUOTIENT (IDIFFERENCE (fetch (REGION WIDTH) of PAPER)
    RIGHTINCR)
    PTSPERPICA)
    PAGELOOKS)
  (PUTASSOC 'COLUMNS COLUMNS PAGELOOKS)
  (CL:IF (IGREATERP COLUMNS 1)
    (PUTASSOC 'INTERCOL INTERCOL PAGELOOKS))
  (PUTASSOC 'HEADINGS HEADINGS PAGELOOKS))
(RETURN PAGELOOKS])
```

(\TEDIT.APPLY.PAGELOOKS

[LAMBDA (OBJ MENUSEL MENUWINDOW MENUSTREAM)

; Edited 29-Dec-2024 20:16 by rmk
; Edited 20-Oct-2024 09:40 by rmk
; Edited 29-Sep-2024 15:05 by rmk
; Edited 25-Aug-2024 09:14 by rmk
; Edited 21-Aug-2024 12:18 by rmk
; Edited 10-Aug-2024 11:19 by rmk
; Edited 29-Jul-2024 18:05 by rmk
; Edited 27-Jul-2024 11:25 by rmk
; Edited 2-May-2024 14:26 by rmk
; Edited 29-Apr-2024 13:36 by rmk
; Edited 27-Mar-2024 15:20 by rmk
; Edited 21-Dec-2023 12:31 by rmk
; Edited 8-Aug-2023 00:02 by rmk
; Edited 21-Oct-2022 18:51 by rmk
; Edited 4-Jun-93 12:04 by sybalsky:mv:envos

```
(TEDIT.PROMPTCLEAR (\TEDIT.MAINSTREAM MENUSTREAM))
(\TEDIT.CHANGE.PAGELOOKS (\TEDIT.MAINW MENUSTREAM)
  (\TEDIT.MENU.PARSE MENUSTREAM))
(TEDIT.BACKTOMAIN MENUSTREAM])
```

(\TEDIT.CHANGE.PAGELOOKS

[LAMBDA (MAINTTEXTSTREAM PAGELOOKS)

; Edited 24-Dec-2024 21:28 by rmk
; Edited 20-Oct-2024 17:17 by rmk
; Edited 30-Aug-2024 23:43 by rmk
; Edited 15-Aug-2024 14:48 by rmk
; Edited 12-Aug-2024 23:34 by rmk
; Edited 10-Aug-2024 12:11 by rmk

```
(PROG ((MAINTTEXTOBJ (TEXTOBJ MAINTTEXTSTREAM))
  (PAGEID (LISTGET PAGELOOKS 'PAGEID))
  [PAGENOS (STRING.EQUAL 'Yes (LISTGET PAGELOOKS 'PAGENOS)
    PAGEPROPS)
  (CL:WHEN (EQ 'OFF PAGEID)
    (TEDIT.PROMPTPRINT MAINTTEXTSTREAM "Please specify a page type" T T)
    (RETURN))
  (for PLTAIL on PAGELOOKS by (CDDR PLTAIL) do (SELECTQ (CADR PLTAIL)
    (ON (RPLACA PLTAIL T))
    ((OFF NEUTRAL)
    (RPLACA PLTAIL NIL))
    NIL))
  (CL:WHEN [AND PAGENOS (NOT (AND (LISTGET PAGELOOKS 'PAGENUMBERX)
    (LISTGET PAGELOOKS 'PAGENUMBERY)
    (TEDIT.PROMPTPRINT MAINTTEXTOBJ "Please set both X and Y locations for page numbers" T T)
    (RETURN))
```

```
(CL:UNLESS (LISTGET PAGELOOKS 'COLUMNS)
  (LISTPUT PAGELOOKS 'COLUMNS 1)
  (RETURN))
(CL:UNLESS (OR (EQ 1 (LISTGET PAGELOOKS 'COLUMNS))
  (LISTGET PAGELOOKS 'COLWIDTH)
  (LISTGET PAGELOOKS 'SPACEBETWEENCOLUMNS))
  (TEDIT.PROMPTPRINT MAINTEXTOBJ "Please specify the space between columns" T T)
  (RETURN))
[push PAGEPROPS 'STARTINGPAGE# (LISTGET PAGELOOKS 'STARTINGPAGE#)
  'LANDSCAPE?
  (EQ 'ON (LISTGET PAGELOOKS 'LANDSCAPE))
  'FOLIOINFO
  (LIST (SELECTQ (LISTGET PAGELOOKS 'FOLIOFORMAT)
    (|123| 'ARABIC)
    (xiv 'LOWERROMAN)
    (XIV 'UPPERROMAN)
    'ARABIC)
  (LISTGET PAGELOOKS 'FOLIOPRETEXT)
  (LISTGET PAGELOOKS 'FOLIOPOSTTEXT])
```

:: **EMPTY** may come from field values in the pagelooks menu

```
(TEDIT.PAGEFORMAT MAINTEXTOBJ (TEDIT.SINGLE.PAGEFORMAT PAGENOS (LISTGET PAGELOOKS 'PAGENUMBERX)
  (LISTGET PAGELOOKS 'PAGENUMBERY)
  (LISTGET PAGELOOKS 'CHARLOOKS)
  (LISTGET PAGELOOKS 'QUAD)
  (LISTGET PAGELOOKS 'LEFTMARGIN)
  (LISTGET PAGELOOKS 'RIGHTMARGIN)
  (LISTGET PAGELOOKS 'TOPMARGIN)
  (LISTGET PAGELOOKS 'BOTTOMMARGIN)
  (LISTGET PAGELOOKS 'COLUMNS)
  (LISTGET PAGELOOKS 'COLWIDTH)
  (LISTGET PAGELOOKS 'SPACEBETWEENCOLUMNS)
  (LISTGET PAGELOOKS 'HEADINGS)
  'PICAS PAGEPROPS (LISTGET PAGELOOKS 'PAPERSIZE))
  PAGEID])
```

(\TEDIT.PAGEMENU.CHARLOOKS.STATEFN

[LAMBDA (CHARLOOKSPC OBJ MENUTEXTOBJ)

; Edited 28-Aug-2024 15:07 by rmk
; Edited 9-Aug-2024 23:53 by rmk

:: The STATEFN for the page-number CHARLOOKS piece. This accumulates the character properties from the following pieces and stores them
:: in as the STATE of CHARLOOKSPC. Assumes that this is the end of menu, otherwise we have to be able to tell \TEDIT.MENU.PARSE the
:: property of the last object it should examine (DISTANCE?), and it has to report that piece.

```
[IMAGEOBJPROP OBJ 'STATE (CONS (LIST 'CHARLOOKS (\TEDIT.MENU.PARSE MENUTEXTOBJ CHARLOOKSPC 'DISTANCE)
  (IMAGEOBJPROP OBJ 'PARSEENDPIECE])
```

)

(DEFINEQ

(\TEDIT.PAGEMENU.CREATE.HEADINGS

[LAMBDA (N)

; Edited 8-Nov-2024 08:36 by rmk
; Edited 20-Oct-2024 17:21 by rmk
; Edited 29-Sep-2024 12:53 by rmk
; Edited 13-Aug-2024 19:50 by rmk
; Edited 10-Aug-2024 11:45 by rmk
; Edited 26-Jul-2024 17:58 by rmk

:: Puts out N heading types 2 per line separated by tabs. The LASTHEADINGTYPEY property signals that the run of headings has ended (for
:: \TEDIT.PAGEMENU.HEADINGS.SETSTATEFN).

```
(for I from 1 to N by 2 join [COPY ' (EOL 3 (FIELD (IDENTIFIER HEADINGTYPE)
  (PRELABEL "Heading Type:")
  (FIELDTYPE SYMBOL)
  (EMPTYVALUE NIL))
  (FIELD (IDENTIFIER HEADINGTYPEX)
  (PRELABEL " X:")
  (FIELDTYPE NUMBER)
  (EMPTYVALUE NIL))
  (FIELD (IDENTIFIER HEADINGTYPEY)
  (PRELABEL " Y:")
  (FIELDTYPE NUMBER)
  (EMPTYVALUE NIL))
  TAB
  (FIELD (IDENTIFIER HEADINGTYPE)
  (PRELABEL "Heading Type:")
  (FIELDTYPE SYMBOL)
  (EMPTYVALUE NIL))
  (FIELD (IDENTIFIER HEADINGTYPEX)
  (PRELABEL " X:")
  (FIELDTYPE NUMBER)
  (EMPTYVALUE NIL))
  (FIELD (IDENTIFIER HEADINGTYPEY)
  (PRELABEL " Y:")
  (FIELDTYPE NUMBER)
  (EMPTYVALUE NIL))
  finally (PUTASSOC 'IDENTIFIER (CONS 'LASTHEADINGTYPEY)
```

(CAR (LAST \$\$VAL))

(\TEDIT.PAGEMENU.HEADINGS.SETSTATEFN

[LAMBDA (HEADINGSPC HEADINGS MENUSTREAM)

; Edited 29-Sep-2024 12:53 by rmk
; Edited 16-Aug-2024 10:18 by rmk
; Edited 9-Aug-2024 11:58 by rmk

:: This is the SETSTATEFN for the HEADINGSPC. Its value HEADINGS is a list of type/x/y subsequences that are popped off as their respective
:: imageobjects are encountered. So it looks like an ALIST, but its later values are uncovered as earlier ones are removed. The order of
:: HEADINGS has to match the order of the image objects.

:: Return value is the piece containing the LASTHEADINGTYPEY object.

(for PC OBJ SETSTATEFN inpieces (NEXTPIECE HEADINGSPC) when [AND (SETQ OBJ (POBJ PC))
(SETQ SETSTATEFN (IMAGEOBJPROP OBJ
'SETSTATEFN])

do (CL:WHEN SETSTATEFN
(SETQ PC (PROG1 (APPLY* SETSTATEFN PC (CDR (pop HEADINGS))
MENUSTREAM)
(TEDIT.OBJECT.CHANGED MENUSTREAM OBJ PC))))
(CL:WHEN (EQ 'LASTHEADINGTYPEY (IMAGEOBJPROP OBJ 'IDENTIFIER))
(RETURN PC]))

(\TEDIT.PAGEMENU.HEADINGS.STATEFN

[LAMBDA (HEADINGSPC HEADINGSOBJ MENUTEXTOBJ)

; Edited 29-Sep-2024 12:53 by rmk
; Edited 29-Aug-2024 11:05 by rmk
; Edited 16-Aug-2024 08:39 by rmk
; Edited 10-Aug-2024 11:39 by rmk

:: The STATEFN for the HEADINGS piece. This accumulates the heading properties for the following pieces (assuming type/x/y triples) until the
:: LASTHEADINGY piece. The resulting list of triples is stored as the STATE of the HEADINGSPC

(for PC OBJ STATEFN HEADINGS VALS inpieces (NEXTPIECE HEADINGSPC) when [AND (SETQ OBJ (POBJ PC))
(SETQ STATEFN (IMAGEOBJPROP
OBJ
'STATEFN])

do (SETQ PC (APPLY* STATEFN PC OBJ MENUTEXTOBJ))
(push VALS (IMAGEOBJPROP OBJ 'STATE))
(CL:WHEN (MEMB (IMAGEOBJPROP OBJ 'IDENTIFIER)
'(HEADINGTYPEY LASTHEADINGTYPEY))
(CL:WHEN (thereis V in VALS suchthat V)
(push HEADINGS (DREVERSE VALS))
(SETQ VALS NIL))
(CL:WHEN (EQ 'LASTHEADINGTYPEY (IMAGEOBJPROP OBJ 'IDENTIFIER))
[IMAGEOBJPROP (PCONTENTS HEADINGSPC)
'STATE
(CONS (LIST 'HEADINGS (DREVERSE HEADINGS))
(RETURN PC))]))

)

(DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS

(ADDTOVAR NLAMA)

(ADDTOVAR NLAML)

(ADDTOVAR LAMA)

)

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