File created: 19-Sep-2022 19:20:51 **{DSK}<home>matt>medley>LISPUSERS>HISTMENU.;4**

changes to: (VARS HISTMENUCOMS)
(FNS HistMenuOp)

previous date: 15-Sep-2022 21:50:50 {DSK}<home>matt>medley>LISPUSERS>HISTMENU.;3

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

```
;;
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(RPAQQ HISTMENUCOMS ((VARS * HISTMENUVARS)
                     (INITVARS HistMenuExecOnly)
                     (FNS * HISTMENUFNS)
                     (BITMAPS HistoryBitMap HistoryMask)
                     (PROP (FILETYPE MAKEFILE-ENVIRONMENT)
                           HISTMENU)))

(RPAQQ HISTMENUVARS (BadHistoryItems HistDefaultSlice HistItemsShown HistMenuItemHeight HistMenuWidth
                           HistOpMenuItems HistWindowWidth HistEventWidth UpdateOnDeleteFlg (HistRightMenu)
                           (HistOpMenu)
                           (HistoryWindow)
                           (HistoryMenu)))

(RPAQQ BadHistoryItems (EDIT ?= OK T NIL ^))

(RPAQQ HistDefaultSlice 30)

(RPAQQ HistItemsShown 51)

(RPAQQ HistMenuItemHeight 15)

(RPAQQ HistMenuWidth 164)

(RPAQQ HistOpMenuItems
       ((REDO 'REDO "REDO event selected")
        (FIX 'FIX "Edit event selected")
        (UNDO 'UNDO "UNDO event selected")
        (?? '?? "Show event selected")
        (Delete 'Delete "Delete event from history menu")))

(RPAQQ HistWindowWidth 164)

(RPAQQ HistEventWidth 60)

(RPAQQ UpdateOnDeleteFlg T)

(RPAQQ HistRightMenu NIL)

(RPAQQ HistOpMenu NIL)

(RPAQQ HistoryWindow NIL)

(RPAQQ HistoryMenu NIL)

(RPAQ? HistMenuExecOnly NIL)

(RPAQQ HISTMENUFNS (HistEventString HistHeldFn HistMenuOp HistRightButtonFn HistoryIcon HistoryMenu LastNEvents
                          UpdateHistory UpdateHistoryWindow))

(DEFINEQ

(HistEventString
  [LAMBDA (entry)                                        (* dgb%: "10-FEB-83 10:32")

              (* Put together a string which looks like input for menu. Put spaces between atoms, remove <c.r.>, and make top level NIL
              be "()" %. entry is a history list entry of form (event value . proplist)%.
              Computed entries are cached in the propList under the property HistoryString)

    (COND
       ((NULL entry)
        '(" "))
       ((LISTGET (CDDDR entry)
               'HistoryString))
       (T (PROG (newLst key (event (CAR entry))
                       str)
                [COND
                   [(AND (EQ (SETQ key (CAR event))
                             'UNDO)
                         (CDR event))                    (* Special form for UNDO. Show form of event that was undone.)
                    (SETQ event (APPEND event '(" -- ")
                                        (CAR (LISPXFIND LISPXHISTORY (CDR event)
                                                    'ENTRY]
                   ((FMEMB key BadHistoryItems)                  (* Not an item to be shown in history)
                    (NCONC entry (LIST 'HistoryString 'Deleted))
                    (RETURN 'Deleted]
                (SETQ newLst (TCONC NIL key))
                (for tail item on (CDR event) do                 (* Add item to the event description to made into a string)
                                                 [COND
                                                    ((EQ HISTSTR0 (SETQ item (CAR tail)))
                                                                 (* leave out <c.r.>)
                                                     (GO SKIP))
                                                    ((NULL item)
                                                     (SETQ item "()"))
                                                    ((ATOM item) (* Put in space between atoms)
                                                     (TCONC newLst '% ]
                                                 (TCONC newLst item)
                                                 SKIP
                   finally (SETQ str (APPLY 'CONCAT (CAR newLst)))
                                                                 (* make a string using CONCAT, and put as property
                                                                 HistoryString)
                         [COND
                            ((IGREATERP (NCHARS str)
                                    HistEventWidth)              (* Avoid going on too long)
                             (SETQ str (CONCAT (SUBSTRING str 1 HistEventWidth)
                                              " ..."]
                         (NCONC entry (LIST 'HistoryString str)))
                (RETURN str])

(HistHeldFn
  [LAMBDA (item menu key)                                        (* dgb%: " 9-FEB-83 16:36")
    (CLRPROMPT)
    (printout PROMPTWINDOW "Will " (SELECTQ key
                                        (MIDDLE "do one of UNDO, FIX, ??, or Delete on ")
                                        "REDO ")
           (CDR item)
           T %# (PRIN3 (CAR item))
           T])

(HistMenuOp
  [LAMBDA (exp menu key)                                         ; Edited 19-Sep-2022 19:20 by Matt Heffron
                                                                 ; Edited 15-Sep-2022 21:49 by Matt Heffron
    (PROG (op)
     ;; Stuff the appropriate text into the Exec window.

     ;; Per Michele Denber: Since it actually goes into the window that has the caret, first check to see if the window with focus is an Exec window.

     ;; Note the original HISTMENU did not do this.

          (COND
             ((NULL (CDR exp))
              (RETURN))
             ([AND HistMenuExecOnly (NOT (FIXP (STRPOS "EXEC" (PROCESSPROP (TTY.PROCESS)
                                                                      'NAME]

              ;; It turns out that this check can be too restrictive.

              ;; E.g., It wouldn't allow for using the HistMenu in a Break window unless "under" an Exec process

              (PROMPTPRINT "Please select an Exec window for this action.")
              (RETURN)))
          (SELECTQ key
               (LEFT (SETQ op 'REDO)
                     (GO DOIT))
               (MIDDLE [SETQ op (MENU (OR (AND (type? MENU HistOpMenu)
                                               HistOpMenu)
                                          (SETQ HistOpMenu (create MENU
                                                                  ITEMS _ HistOpMenuItems]
                       (SELECTQ op
                           (Delete (LISTPUT (CDDDR (LISPXFIND LISPXHISTORY (LIST (CDR exp))
                                                               'ENTRY))
                                          'HistoryString
                                          'Deleted)
                                  (RETURN (AND UpdateOnDeleteFlg (UpdateHistory menu))))
                           (NIL                                  ; nothing selected
                                (RETURN NIL))
                           (GO DOIT)))
               (RETURN))
      DOIT
          (BKSYSBUF op)                                          ; Insert op space event identifier in system buffer
          (BKSYSBUF " ")
          (BKSYSBUF (CDR exp))
          (BKSYSCHARCODE (CHARCODE CR))
      NIL])

(HistRightButtonFn
  [LAMBDA (WINDOW)                                               (* dgb%: "31-MAR-83 18:12")
                                                                 (* Sets up Menu, and then does usual right window stuff,
                                                                augmented by UpdateHistoryWindow)
    [OR (type? MENU (EVALV 'HistRightMenu))
        (SETQ HistRightMenu (create MENU
                                   ITEMS _ '((Bury 'BURYW "Puts this window on the bottom.")
                                             (Move 'MOVEW "Moves window by a corner.")
                                             (Shrink 'SHRINKW "Replaces this window with its icon (or title if
                                                    it doesn't have an icon.")
                                             (Update 'UpdateHistoryWindow "Update the window to show all current
                                                    items"]
    (TOTOPW WINDOW)
    (PROG (COM)
          (RETURN (COND
                     ((SETQ COM (MENU HistRightMenu))
                      (APPLY* COM WINDOW)
                      T])

(HistoryIcon
  [LAMBDA (N histPosition iconPosition)                         (* dgb%: "16-May-84 19:42")

          (* Used with the shrink and expand functions of windows. Creates a history menu, and uses a labelled ScrollBitMap for an
          icon image)

    (PROG (H (W (ICONW HistoryBitMap HistoryMask iconPosition T)))
          (SETQ H (HistoryMenu N histPosition))
          (RETURN (SETQ HistoryWindow (SHRINKW (WFROMMENU H)
                                             W iconPosition 'UpdateHistoryWindow])

(HistoryMenu
  [LAMBDA (histMenuLength histMenuPosition)                     ; Edited 15-Sep-2022 21:49 by Matt Heffron
    ;; Create a menu showing the last histMenuLength events of history.  If histMenuPosition is not given, then allows the user to move window
    (PROG (W wwidth wregion (wheight (ITIMES HistMenuItemHeight HistItemsShown)))
          (OR histMenuLength (SETQ histMenuLength HistDefaultSlice))
     ;; Default HistorySlice is HistDefaultSlice
          (SETQ HistoryMenu (create MENU
                                   ITEMS _ (LastNEvents histMenuLength)
                                   ITEMHEIGHT _ HistMenuItemHeight
                                   ITEMWIDTH _ HistMenuWidth
                                   MENUOUTLINESIZE _ 0
                                   WHENSELECTEDFN _ 'HistMenuOp
                                   WHENHELDFN _ 'HistHeldFn))
          (PROGN [PROG ((MD (fetch MENUUSERDATA of HistoryMenu)))
                       (COND
                          ((NULL MD)
                           (replace MENUUSERDATA of HistoryMenu with (LIST 'HistorySlice histMenuLength)))
                          (T (LISTPUT MD 'HistorySlice histMenuLength]
                 histMenuLength)
          (SETQ wwidth (WIDTHIFWINDOW (fetch (MENU IMAGEWIDTH) of HistoryMenu)))
          (SETQ wheight (HEIGHTIFWINDOW (fetch (MENU IMAGEHEIGHT) of HistoryMenu)
                               T))
          [COND
             ((NOT (type? POSITION histMenuPosition))
              (SETQ histMenuPosition (GETBOXPOSITION wwidth wheight NIL NIL NIL "Position History Window"]
          (SETQ wregion (create REGION
                               LEFT _ (fetch XCOORD of histMenuPosition)
                               BOTTOM _ (fetch YCOORD of histMenuPosition)
                               WIDTH _ wwidth
                               HEIGHT _ wheight))
          (SETQ W (CREATEW wregion "History Window"))
          (WINDOWPROP W 'RIGHTBUTTONFN 'HistRightButtonFn)
          (ADDMENU HistoryMenu W (create POSITION
                                        XCOORD _ 0
                                        YCOORD _ 0)
                 T))
    HistoryMenu])

(LastNEvents
  [LAMBDA (N)                                                   (* dgb%: "11-Sep-84 09:11")
    (PROG (ev (i 1))
          (RETURN (while (ILESSP i N) bind hist1 (lastN _ (ADD1 (OR (CADR LISPXHISTORY)
                                                                   0)))
                                            (hist _ (CAR LISPXHISTORY))
                     when [PROGN (SETQ hist1 (CAR hist))
                                 (SETQ hist (CDR hist))
                                 (NEQ 'Deleted (SETQ ev (HistEventString hist1]
                     collect (SETQ i (ADD1 i))
                           (COND
                              ((OR hist hist1)
                               (CONS ev (ENTRY# LISPXHISTORY hist1)))
                              (T '(" "])

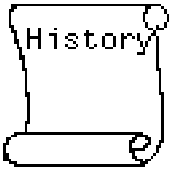
(UpdateHistory
  [LAMBDA (histMenu)                                                (* dgb%: " 9-FEB-83 16:29")
                                                                    (* replace the current set of events with the most recent set)
    (PROG ((historyWindow (WFROMMENU histMenu)))
          [replace ITEMS of histMenu with (LastNEvents (LISTGET (fetch MENUUSERDATA of histMenu)
                                                              'HistorySlice]
          (UPDATE/MENU/IMAGE histMenu)
          (BLTMENUIMAGE histMenu historyWindow])

(UpdateHistoryWindow
  [LAMBDA (window)                                                  (* dgb%: " 4-JUN-82 06:55")

          (* For use with both the HISTMENU package and ICON package.
          Updates a history menu on opening it from its icon)

    (UpdateHistory (CAR (WINDOWPROP window 'MENU])
)
```

(RPAQQ **HistoryBitMap**



)

(RPAQQ **HistoryMask**

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```
(PUTPROPS HISTMENU FILETYPE :TCOMPL)

(PUTPROPS HISTMENU MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "INTERLISP"))

(PUTPROPS HISTMENU COPYRIGHT ("Xerox Corporation" 1984 1987 2022))
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