```
31-Mar-2024 06:57:25 {DSK}<home>larry>il>medley>lispusers>WHEELSCROLL.;2
 File created:
      edit by:
               1 mm
  changes to:
                (VARS WHEELSCROLLCOMS)
                (FNS ENABLEWHEELSCROLL)
previous date:
                2-Oct-2023 10:15:55 {DSK}<home>larry>il>medley>lispusers>WHEELSCROLL.;1
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                 XCCS
(RPAQQ WHEELSCROLLCOMS
        [(FNS ENABLEWHEELSCROLL WHEELSCROLL WHEELSCROLL.DOIT INSTALL-WHEELSCROLL)
        :: These are the highest meta-ctrl characters, they will be unaffected by teh state of ctrl and meta mode keys
         (DECLARE%: EVAL@COMPILE DONTCOPY (CONSTANTS * WHEELSCROLLCHARS))
         (GLOBALVARS WHEELSCROLLENABLED WHEELSCROLLDELTA WHEELSCROLLSETTLETIME \WHEELSCROLLINPROGRESS)
        ;; To restore the keyactions for PAD..., if the keyaction table has been reinitialized
         [ADDVARS (AFTERSYSOUTFORMS (AND WHEELSCROLLENABLED (ENABLEWHEELSCROLL T)))
                 (AFTERMAKESYSFORMS (AND WHEELSCROLLENABLED (ENABLEWHEELSCROLL T]
         (INITVARS (WHEELSCROLLENABLED NIL)
                 (WHEELSCROLLDELTA 20)
                 (HWHEELSCROLLDELTA NIL)
                 (WHEELSCROLLSETTLETIME 50)
                 (\WHEELSCROLLINPROGRESS NIL))
         (DECLARE%: DONTEVAL@LOAD DOCOPY (P (INSTALL-WHEELSCROLL)
                                                (ENABLEWHEELSCROLL T])
(DEFINEQ
(ENABLEWHEELSCROLL
                                                                        : Edited 31-Mar-2024 06:30 by Imm
  [LAMBDA (ON EXCLUDENORIZONTAL)
                                                                         Edited 2-Oct-2023 10:05 by rmk
Edited 23-Oct-2021 16:31 by larry
Edited 11-Jun-2021 12:50 by rmk:
                                                                         Edited 28-May-2021 11:46 by rmk:
    ;; So we can toggle this scrolling.
    (if ON
        then (/PUTASSOC 'WHEELSCROLL WHEELSCROLLINTERRUPTS LISPINTERRUPTS)
              ;; In some situations these other keyactions seem to be installed, hit them all.
              (for KAT in (LIST \CURRENTKEYACTION \COMMANDKEYACTION \DEFAULTKEYACTION)
                 do (for k in [if excludehorizontal
                                   then `((PAD1 ,\WSUP)
                                          (PAD2 ,\WSDOWN)
                                          (PAD4 IGNORE)
                                          (PAD5 IGNORE))
                                else `((PAD1 ,\WSUP)
                                        (PAD2 ,\WSDOWN)
                                        (PAD4 ,\WSLEFT)
                                        (PAD5 ,\WSRIGHT]
                        do (KEYACTION (CAR K)
                                   (CONS (CL:IF (EQ (CADR K)
                                                      'IGNORE)
                                               'IGNORE
                                               '(, (CADR K)
                                                 (CADR K)))
                                          'IGNORE)
                                   KAT)))
              (for I in wheelscrollinterrupts do (Interruptchar (CAR I)
                                                            (CADR I)
                                                            (CADDR I)))
              (SETQ WHEELSCROLLENABLED T)
      else
           (/PUTASSOC 'WHEELSCROLL NIL LISPINTERRUPTS)
            (for I in wheelscrollinterrupts do (Interruptchar (CAR I)
                                                         NIL))
           (for KAT in (LIST \CURRENTKEYACTION \COMMANDKEYACTION \DEFAULTKEYACTION)
              do (KEYACTION 'PAD1 '(IGNORE . IGNORE)
                         KAT)
                  (KEYACTION 'PAD2 '(IGNORE . IGNORE)
                          KAT)
                  (KEYACTION 'PAD4 '(IGNORE . IGNORE)
                         KAT)
                  (KEYACTION 'PAD5 '(IGNORE . IGNORE)
                          KAT))
           (SETQ WHEELSCROLLENABLED NIL])
(WHEELSCROLL
  [LAMBDA (DIRECTION DELTA)
                                                                        ; Edited 21-Feb-2021 09:38 by rmk:
```

;; The wheel may accidentally turn (giving the interrupt) when the users intention is simply to push the middle button. And there may be another ;; accidental turn (also giving an interrupt) when the user is releasing the middle button. We don't yet have a good solution to this problem. (This is

```
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(\WSRIGHT 159))

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS WHEELSCROLLENABLED WHEELSCROLLDELTA WHEELSCROLLSETTLETIME \WHEELSCROLLINPROGRESS)

;; To restore the keyactions for PAD..., if the keyaction table has been reinitialized

(ADDTOVAR AFTERSYSOUTFORMS (AND WHEELSCROLLENABLED (ENABLEWHEELSCROLL T)))

(ADDTOVAR AFTERMAKESYSFORMS (AND WHEELSCROLLENABLED (ENABLEWHEELSCROLL T)))

(RPAQ? WHEELSCROLLENABLED NIL)

(RPAQ? WHEELSCROLLDELTA 20)

(RPAQ? HWHEELSCROLLDELTA NIL)
```

(RPAQ? WHEELSCROLLSETTLETIME 50)
(RPAQ? WHEELSCROLLINPROGRESS NIL)

(DECLARE%: DONTEVAL@LOAD DOCOPY

 $\begin{aligned} & \textbf{(INSTALL-WHEELSCROLL)} \\ & \textbf{(ENABLEWHEELSCROLL} \quad \textbf{T)} \end{aligned}$

{MEDLEY}lispusers>WHEELSCROLL.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:09 --

FUNCTION INDEX			
ENABLEWHEELSCROLL1	INSTALL-WHEELSCROLL2	WHEELSCROLL1	WHEELSCROLL.DOIT2
VARIABLE INDEX			
AFTERMAKESYSFORMS3 AFTERSYSOUTFORMS3		WHEELSCROLLDELTA3 WHEELSCROLLENABLED3	WHEELSCROLLSETTLETIME3 \WHEELSCROLLINPROGRESS3
CONSTANT INDEX			
\WSDOWN2	\WSLEFT2	\WSRIGHT2	\WSUP2