

File created: 24-Oct-89 13:33:24 {ICE}<KOOMEN>LISPUSERS>MEDLEY>TILED-SEDIT.;5

changes to: (FNS POST.TILED.SEDIT.SAVE.WINDOW.REGION TILED.SEDIT.RESET POST.TILED.SEDIT.GET.WINDOW.REGION)
(VARS TILED-SEDITCOMS)

previous date: 18-Jan-88 14:40:28 {ICE}<KOOMEN>LISPUSERS>MEDLEY>TILED-SEDIT.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

;;
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(RPAQQ TILED-SEDITCOMS

;; Provides a similar facility for SEdit as the LispUsers package TILEDEDIT provides for DEdit, i.e., instead of prompting the user for regions, generates
;; successive regions in a circular fashion, eachtime through the full window loop offsetting the next window by 12,-12. Users can select their
;; preference through the TILING-ORDER argument to the function TILED.SEDIT.RESET, which must be either NIL (no tiling), T (default tiling order) or
;; a list of the symbols TL (top-left) TR (top-right) BL (bottom-left) and BR (bottom-right)

;; User Interface

(FNS TILED.SEDIT.RESET)

;; Support

(PROP MAKEFILE-ENVIRONMENT TILED-SEDIT)

(INITVARS (*TiledSEditMargin* 25)

(*TiledSEditXShift* 15)

(*TiledSEditYShift* 15)

(*TiledSEditRegions* NIL))

(RECORDS TILED.SEDIT.REGION)

(FNS POST.TILED.SEDIT.GET.WINDOW.REGION POST.TILED.SEDIT.SAVE.WINDOW.REGION TILED.SEDIT.NEW.REGION

TILED.SEDIT.SWITCHFN)

(DECLARE%: EVAL@COMPILE DONTEVAL@LOAD DONTCOPY [P (OR (HASDEF 'SEdit::EDIT-CONTEXT 'RECORDS)

(EVAL (SYSRECLOOK1 'SEdit::EDIT-CONTEXT)

(LOCALVARS . T)

(GLOBALVARS *TiledSEditXShift* *TiledSEditYShift* *TiledSEditRegions* *TiledSEditRegionWidth*

TiledSEditRegionHeight *TiledSEditKeepWhenShrunk* *TiledSEditCorners*

TiledSEditNextCornerPtr *TiledSEditNextTopLeftRegion* *TiledSEditNextBottomLeftRegion*

TiledSEditNextTopRightRegion *TiledSEditNextBottomRightRegion*))

(DECLARE%: DONTEVAL@COMPILE DONTEVAL@LOAD DOCOPY (P (TILED.SEDIT.RESET T]))

;; Provides a similar facility for SEdit as the LispUsers package TILEDEDIT provides for DEdit, i.e., instead of prompting the user for regions, generates
;; successive regions in a circular fashion, eachtime through the full window loop offsetting the next window by 12,-12. Users can select their
;; preference through the TILING-ORDER argument to the function TILED.SEDIT.RESET, which must be either NIL (no tiling), T (default tiling order) or
;; a list of the symbols TL (top-left) TR (top-right) BL (bottom-left) and BR (bottom-right)

;; User Interface

(DEFINEQ

(TILED.SEDIT.RESET

[LAMBDA (TILING-ORDER XSHIFT YSHIFT SCREEN)

; Edited 24-Oct-89 12:09 by Koomen

[if (NULL TILING-ORDER)

then ;; Reset the world

(SETQ *TiledSEditRegions*)

else ;; Determine new order

; BEWARE!!! INFINITE LIST!!!

[LET [(ORDER (if (EQ TILING-ORDER T)

then (LIST :TL :BL :TR :BR)

else (for CORNER inside TILING-ORDER collect (SELECTQ CORNER

((:TL :TOPLEFT :TOP-LEFT :TOP.LEFT)

:TL)

((:BL :BOTTOMLEFT :BOTTOM-LEFT

:BOTTOM.LEFT)

:BL)

((:TR :TOPRIGHT :TOP-RIGHT :TOP.RIGHT)

:TR)

((:BR :BOTTOMRIGHT :BOTTOM-RIGHT

:BOTTOM.RIGHT)

:BR)

(ERROR "Unsupported TILING-ORDER spec:"
CORNER)]

(SETQ TILING-ORDER (COPY ORDER))

(SETQ *TiledSEditNextCornerPtr* (SETQ *TiledSEditCorners* (NCONC ORDER ORDER]

;; Determine starting placements

(SETQ *TiledSEditXShift* (OR (FIXP XSHIFT)
15))

(SETQ *TiledSEditYShift* (OR (FIXP YSHIFT)
15))

```

[if (NOT (REGIONP SCREEN))
  then (SETQ SCREEN (LET ((MARGIN (OR (FIXP SCREEN)
                                     25)))
                        (CREATERECTION MARGIN MARGIN (IDIFFERENCE SCREENWIDTH MARGIN)
                                         (IDIFFERENCE SCREENHEIGHT MARGIN))
      (LET* ((WIDTH (LRSH (IDIFFERENCE (fetch (REGION WIDTH) of SCREEN)
                                         (LLSH *TiledSEditXShift* 2))
                          1))
             (HEIGHT (LRSH (IDIFFERENCE (fetch (REGION HEIGHT) of SCREEN)
                                         (LLSH *TiledSEditYShift* 2))
                            1))
             (TL-LEFT (fetch (REGION LEFT) of SCREEN))
             (BL-LEFT TL-LEFT)
             (BL-BOTTOM (IPLUS *TiledSEditYShift* *TiledSEditYShift* (fetch (REGION BOTTOM) of SCREEN)))
             (BR-BOTTOM BL-BOTTOM)
             (TL-BOTTOM (IPLUS BL-BOTTOM HEIGHT *TiledSEditYShift* *TiledSEditYShift*))
             (TR-BOTTOM TL-BOTTOM)
             (TR-LEFT (IPLUS TL-LEFT WIDTH *TiledSEditXShift* *TiledSEditXShift*))
             (BR-LEFT TR-LEFT))
      (SETQ *TiledSEditNextTopLeftRegion* (CREATERECTION TL-LEFT TL-BOTTOM WIDTH HEIGHT))
      (SETQ *TiledSEditNextBottomLeftRegion* (CREATERECTION BL-LEFT BL-BOTTOM WIDTH HEIGHT))
      (SETQ *TiledSEditNextTopRightRegion* (CREATERECTION TR-LEFT TR-BOTTOM WIDTH HEIGHT))
      (SETQ *TiledSEditNextBottomRightRegion* (CREATERECTION BR-LEFT BR-BOTTOM WIDTH HEIGHT)))

```

:: Move currently open SEdit windows (keep relative order), and recompute Tiled SEdit regions

```

(LET ((OLDREGIONS (CAR *TiledSEditRegions*))
      CONTEXT OTHERS)
  (SETQ *TiledSEditRegions* (CONS))
  [for W in (OPENWINDOWS) when (SETQ CONTEXT (WINDOWPROP W 'SEdit::EDIT-CONTEXT))
    do (for TSR in OLDREGIONS when (EQ (fetch TSR.CONTEXT of TSR)
                                       CONTEXT)
      do (replace TSR.REGION of TSR with W)
      (RETURN)
      finally (push OTHERS (CONS W CONTEXT))
    (for TSR in OLDREGIONS when (WINDOWP (fetch TSR.REGION of TSR))
      do (SHAPEW (fetch TSR.REGION of TSR)
                 (POST.TILED.SEDIT.GET.WINDOW.REGION (fetch TSR.CONTEXT of TSR)
                                                         :CREATE)))
    (for PAIR in OTHERS do (SHAPEW (CAR PAIR)
                                   (POST.TILED.SEDIT.GET.WINDOW.REGION (CDR PAIR)
                                                                           :CREATE))

```

```

(TILED.SEDIT.SWITCHFN (NULL TILING-ORDER)
 'SEdit:GET-WINDOW-REGION
 'PRE.TILED.SEDIT.GET.WINDOW.REGION
 'POST.TILED.SEDIT.GET.WINDOW.REGION)
(TILED.SEDIT.SWITCHFN (NULL TILING-ORDER)
 'SEdit:SAVE-WINDOW-REGION
 'PRE.TILED.SEDIT.SAVE.WINDOW.REGION
 'POST.TILED.SEDIT.SAVE.WINDOW.REGION)
TILING-ORDER])

```

)

:: Support

```
(PUTPROPS TILED-SEdit MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "INTERLISP" :BASE 10))
```

```
(RPAQ? *TiledSEditMargin* 25)
```

```
(RPAQ? *TiledSEditXShift* 15)
```

```
(RPAQ? *TiledSEditYShift* 15)
```

```
(RPAQ? *TiledSEditRegions* NIL)
```

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

```
(RECORD TILED.SEDIT.REGION (TSR.CONTEXT . TSR.REGION))
```

)

```
(DEFINEQ
```

(POST.TILED.SEDIT.GET.WINDOW.REGION

```

[LAMBDA (CONTEXT REASON) ; Edited 24-Oct-89 12:17 by Koomen
  (COPY (OR [if (AND SEDIT:KEEP-WINDOW-REGION (EQ REASON :EXPAND))
              then
                ;; Make sure it's there (wouldn't be if just enabled KeepWhenShrunk)
                (for TSR in (CAR *TiledSEditRegions*) when (EQ (fetch TSR.CONTEXT of TSR)
                                                                CONTEXT)
                  do
                    ;; Don't return the tile, but the actual window region, in case of reshape
                    (RETURN (WINDOWREGION (fetch (SEdit::EDIT-CONTEXT SEDIT::DISPLAY-WINDOW)
                                                  of CONTEXT))
                (for TSR in (CAR *TiledSEditRegions*) unless (fetch TSR.CONTEXT of TSR)
                  do (replace TSR.CONTEXT of TSR with CONTEXT)
                    (RETURN (fetch TSR.REGION of TSR))
                  finally (SETQ TSR (TILED.SEDIT.NEW.REGION CONTEXT))

```

(TCONC *TiledSEditRegions* TSR)
(RETURN (fetch TSR.REGION of TSR))

(POST.TILED.SEDIT.SAVE.WINDOW.REGION

; Edited 24-Oct-89 13:32 by Koomen

[LAMBDA (CONTEXT REASON)
(if (OR (NOT SEDIT:KEEP-WINDOW-REGION)
(NEQ REASON :SHRINK))
then (for TSR in (CAR *TiledSEditRegions*) when (EQ (fetch TSR.CONTEXT of TSR)
CONTEXT)
do (RETURN (replace TSR.CONTEXT of TSR with NIL]))

(TILED.SEDIT.NEW.REGION

; Edited 17-Sep-87 12:51 by Koomen

[LAMBDA (CONTEXT)
(LET* ((NEXTREGION (SELECTQ (pop *TiledSEditNextCornerPtr*)
(:TL *TiledSEditNextTopLeftRegion*)
(:BL *TiledSEditNextBottomLeftRegion*)
(:TR *TiledSEditNextTopRightRegion*)
(:BR *TiledSEditNextBottomRightRegion*)
(SHOULDNT "Bad corner spec!")))
(THISREGION (COPY NEXTREGION)))
(replace (REGION LEFT) of NEXTREGION with (IPLUS (fetch (REGION LEFT) of NEXTREGION)
TiledSEditXShift))
(replace (REGION BOTTOM) of NEXTREGION with (IDIFFERENCE (fetch (REGION BOTTOM) of NEXTREGION)
TiledSEditYShift))
(create TILED.SEDIT.REGION
TSR.CONTEXT _ CONTEXT
TSR.REGION _ THISREGION])

(TILED.SEDIT.SWITCHFN

; Edited 16-Sep-87 11:18 by Koomen

[LAMBDA (RESTOREFLG FN SAVEFN REPLFN)
(if (NOT (DEFINEDP SAVEFN))
then (PUTD SAVEFN (GETD FN)))
(PUTD FN (GETD (if (OR RESTOREFLG (NOT (DEFINEDP REPLFN)))
then SAVEFN
else REPLFN]))

)

(DECLARE%: EVAL@COMPILE DONTEVAL@LOAD DONTCOPY

(OR (HASDEF 'SEdit::EDIT-CONTEXT 'RECORDS)
(EVAL (SYSRECLook1 'SEdit::EDIT-CONTEXT]

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(LOCALVARS . T)
)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS *TiledSEditXShift* *TiledSEditYShift* *TiledSEditRegions* *TiledSEditRegionWidth*
TiledSEditRegionHeight *TiledSEditKeepWhenShrunk* *TiledSEditCorners* *TiledSEditNextCornerPtr*
TiledSEditNextTopLeftRegion *TiledSEditNextBottomLeftRegion* *TiledSEditNextTopRightRegion*
TiledSEditNextBottomRightRegion)
)
)

(DECLARE%: DONTEVAL@COMPILE DONTEVAL@LOAD DOCOPY

(TILED.SEDIT.RESET T)
)

(PUTPROPS TILED-SEdit COPYRIGHT ("Johannes A. G. M. Koomen" 1987 1988 1989))

FUNCTION INDEX

POST.TILED.SEDIT.GET.WINDOW.REGION2 TILED.SEDIT.RESET1
POST.TILED.SEDIT.SAVE.WINDOW.REGION3 TILED.SEDIT.SWITCHFN3
TILED.SEDIT.NEW.REGION3

VARIABLE INDEX

TiledSEditMargin2 *TiledSEditRegions*2 *TiledSEditXShift*2 *TiledSEditYShift*2

RECORD INDEX

TILED.SEDIT.REGION2

PROPERTY INDEX

TILED-SEDIT2
