

File created: 5-Dec-2020 16:38:32 {DSK}<Users>arunwelch>SKYDRIVE>DOCUMENTS>UNIX>LISP>LDE>ROOM
S>MEDLEY-35>RANDOM-WINDOW-TYPES.;2

previous date: 17-Aug-90 14:45:06 {DSK}<Users>arunwelch>SKYDRIVE>DOCUMENTS>UNIX>LISP>LDE>ROOMS>MEDLEY-35>RANDOM-
WINDOW-TYPES.;1

Read Table: XCL

Package: ROOMS

Format: XCCS

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```
(IL:RPAQQ IL:RANDOM-WINDOW-TYPESCOMS
  ;; Window types for various LispUsers modules
  (FILE-ENVIRONMENTS IL:RANDOM-WINDOW-TYPES)
  (IL:P (REQUIRE "ROOMS"))
  ;; Window type for WHO-LINE
  (IL:WINDOW-TYPES :WHO-LINE)
  ;; Window types for the CALENDAR program
  (IL:WINDOW-TYPES :CALENDAR-YEAR :CALENDAR-MONTH)
  ;; Window type for the PRINTERMENU program
  (IL:WINDOW-TYPES :PRINTER-MENU-WINDOW)
  ;; Window type for some clocks
  (IL:WINDOW-TYPES :CROCK-WINDOW :BICLOCK)
  ;; Window types for AddressBook and PhoneDirectory
  (IL:COMS (IL:WINDOW-TYPES :ADDRESSBOOK :PHONE-DIRECTORY)
    (IL:FUNCTIONS ADDRESS-BOOK-WINDOW-P PHONE-DIRECTORY-WINDOW-P FIND-WINDOW))
  ;; Window type for GRID-ICONS
  (IL:WINDOW-TYPES :GRID-ICON-COMS-EDITOR)
  (IL:COMS
    ;; special handlers for FILEWATCH. these are somewhat broken
    (IL:WINDOW-TYPES :FILE-WATCH)
    (IL:FUNCTIONS FILE-WATCH-EXIT-FUNCTION FILE-WATCH-ENTRY-FUNCTION)
    (IL:P (PUSHNEW 'FILE-WATCH-EXIT-FUNCTION *ROOM-EXIT-FUNCTIONS*)
      (PUSHNEW 'FILE-WATCH-ENTRY-FUNCTION *ROOM-ENTRY-FUNCTIONS*))))))
```

;; Window types for various LispUsers modules

```
(DEFINE-FILE-ENVIRONMENT IL:RANDOM-WINDOW-TYPES :COMPILER :COMPILE-FILE
  :READTABLE "XCL"
  :PACKAGE "ROOMS")
```

```
(REQUIRE "ROOMS")
```

;; Window type for WHO-LINE

```
(DEF-WINDOW-TYPE :WHO-LINE :RECOGNIZER (LAMBDA (WINDOW)
  (DECLARE (GLOBAL IL:*WHO-LINE*)
    (EQ WINDOW IL:*WHO-LINE*)))
  :ABSTRACTER (LAMBDA (WINDOW)
    NIL)
  :RECONSTITUTER (LAMBDA (PROPS)
    (DECLARE (GLOBAL IL:*WHO-LINE*)
      (IL:INSTALL-WHO-LINE-OPTIONS)
      IL:*WHO-LINE*))
  :NO-SHAPE T ; don't scale placements
  :TITLE ""
  :FILES (IL:WHO-LINE IL:RANDOM-WINDOW-TYPES))
```

;; Window types for the CALENDAR program

```
(DEF-WINDOW-TYPE :CALENDAR-YEAR :RECOGNIZER (LAMBDA (W)
  (EQ (IL:WINDOWPROP W 'IL:REPAINTFN)
    'IL:REPAINTYEAR))
  :ABSTRACTER (LAMBDA (W)
    (LIST (IL:WINDOWPROP W 'IL:YEAR#)))
  :RECONSTITUTER (LAMBDA (DATA)
    (DESTRUCTURING-BIND
      (YEAR)
      DATA
      (FLET ((FIND-CALENDAR-YEAR NIL (FIND-IF
        #'(LAMBDA (W)
          (AND (EQ (IL:WINDOWPROP W 'IL:REPAINTFN)
```

```

' IL:REPAINTYEAR)
(EQL (IL:WINDOWPROP W ' IL:YEAR#)
YEAR)))
(IL:OPENWINDOWS)))
(OR (FIND-CALENDAR-YEAR)
(PROGN (IL:CALENDAR NIL NIL YEAR)
(FIND-CALENDAR-YEAR))))))
:TITLE (LAMBDA (PLACEMENT REGION DSP)
(PRINT-PEP-TITLE-STRING (OR (IL:WINDOWPROP (PLACEMENT-WINDOW PLACEMENT)
' IL:YEAR#)
"YEAR"))
REGION DSP :NO-TITLE-BAR? T))
:FILES (IL:CALENDAR IL:RANDOM-WINDOW-TYPES))

```

```

(DEF-WINDOW-TYPE :CALENDAR-MONTH :RECOGNIZER (LAMBDA (W)
(EQ (IL:WINDOWPROP W ' IL:REPAINTFN)
' IL:REPAINTMONTH))
:ABSTRACTER (LAMBDA (W)
(LIST (IL:WINDOWPROP W ' IL:YEAR#)
(IL:WINDOWPROP W ' IL:MONTH#)))
:RECONSTITUTER (LAMBDA (DATA)
(DESTRUCTURING-BIND
(YEAR MONTH)
DATA
(FLET ((FIND-CALENDAR-MONTH NIL (FIND-IF
#' (LAMBDA (W)
(AND (EQ (IL:WINDOWPROP W ' IL:REPAINTFN)
' IL:REPAINTYEAR)
(EQL (IL:WINDOWPROP W ' IL:YEAR#)
YEAR)
(EQL (IL:WINDOWPROP W ' IL:MONTH#)
MONTH))))
(IL:OPENWINDOWS))))))
(OR (FIND-CALENDAR-MONTH)
(PROGN (IL:CALENDAR MONTH NIL YEAR)
(FIND-CALENDAR-MONTH))))))
:TITLE (LAMBDA (PLACEMENT REGION DSP)
(PRINT-PEP-TITLE-STRING (LET ((MONTH-NUMBER (IL:WINDOWPROP (PLACEMENT-WINDOW PLACEMENT)
' IL:MONTH#)))
(IF MONTH-NUMBER
(NTH (1- MONTH-NUMBER)
' ("Jan" "Feb" "Mar" "Apr" "May" "Jun" "Jul" "Aug" "Sep"
"Oct" "Nov" "Dec"))
"MONTH")))
REGION DSP :NO-TITLE-BAR? T))
:FILES (IL:CALENDAR IL:RANDOM-WINDOW-TYPES))

```

:: Window type for the PRINTERMENU program

```

(DEF-WINDOW-TYPE :PRINTER-MENU-WINDOW :RECOGNIZER (LAMBDA (W)
(AND (BOUNDP ' IL:PRINTERMENU.WINDOW)
(EQ W IL:PRINTERMENU.WINDOW)))
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA))
(UNLESS (AND (BOUNDP ' IL:PRINTERMENU.WINDOW)
IL:PRINTERMENU.WINDOW)
(IL:PRINTERMENU))
IL:PRINTERMENU.WINDOW)
:ABSTRACTER (LAMBDA (W)
(DECLARE (IGNORE W))
NIL)
:TITLE "PrinterMenu"
:FILES (IL:PRINTERMENU IL:RANDOM-WINDOW-TYPES))

```

:: Window type for some clocks

```

(DEF-WINDOW-TYPE :CROCK-WINDOW :RECOGNIZER (LAMBDA (W)
(AND (BOUNDP ' IL:CROCKWINDOW)
(EQ W IL:CROCKWINDOW)))
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA))
(UNLESS (AND (BOUNDP ' IL:CROCKWINDOW)
(IL:WINDOWP IL:CROCKWINDOW))
(IL:CROCK (IL:CREATEREGION 0 0 100 100)))
IL:CROCKWINDOW)
:ABSTRACTER (LAMBDA (W)
(DECLARE (IGNORE W))
NIL)
:TITLE "Crock"
:FILES (IL:CROCK IL:RANDOM-WINDOW-TYPES))

```

```

(DEF-WINDOW-TYPE :BICLOCK :RECOGNIZER (LAMBDA (WINDOW)

```

(EQ (IL:WINDOWPROP WINDOW 'IL:RESHAPEFN) 'IL:BICLOCKRSFN))

:ABTRACTER (LAMBDA (WINDOW)
(DECLARE (IGNORE WINDOW))
NIL)
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA)
(GLOBAL IL:BICLOCKWINDOW))
(IF (BOUNDP 'IL:BICLOCKWINDOW)
IL:BICLOCKWINDOW
(IL:BICLOCK)))
:TITLE (LAMBDA (PLACEMENT REGION DSP)
(PRINT-PEP-TITLE-STRING "Clock" REGION DSP :NO-TITLE-BAR? T))
:FILES (IL:BICLOCK IL:RANDOM-WINDOW-TYPES))

:: Window types for AddressBook and PhoneDirectory

(DEF-WINDOW-TYPE :ADDRESSBOOK :DEPENDENCIES (:TEXTSTREAM)
:RECOGNIZER ADDRESS-BOOK-WINDOW-P
:ABSTRACTER (LAMBDA (WINDOW)
(DECLARE (IGNORE WINDOW))
NIL)
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA)
(OR (FIND-WINDOW #'ADDRESS-BOOK-WINDOW-P T)
(IL:|MakeAddressBook|)))
:TITLE "Address"
:FILES (IL:ADDRESSBOOK IL:RANDOM-WINDOW-TYPES))

(DEF-WINDOW-TYPE :PHONE-DIRECTORY :RECOGNIZER PHONE-DIRECTORY-WINDOW-P
:ABSTRACTER (LAMBDA (WINDOW)
(DECLARE (IGNORE WINDOW))
NIL)
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA)
(OR (FIND-WINDOW #'PHONE-DIRECTORY-WINDOW-P T)
(IL:|Let-your-fingers-do-the-walking|)))
:TITLE "Phone"
:FILES (IL:PHONE-DIRECTORY IL:RANDOM-WINDOW-TYPES))

(DEFUN ADDRESS-BOOK-WINDOW-P (WINDOW)
(EQ (IL:WINDOWPROP WINDOW 'IL:|ProcessName|)
'IL:|Address Book|))

(DEFUN PHONE-DIRECTORY-WINDOW-P (WINDOW)
(EQ (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN)
'IL:|Phone-Window-ButtonEventFn|))

(DEFUN FIND-WINDOW (TEST &OPTIONAL INCLUDE-HIDDEN-P)
(DOLIST (WINDOW (ALL-WINDOWS INCLUDE-HIDDEN-P))
(WHEN (FUNCALL TEST WINDOW)
(RETURN WINDOW))))

:: Window type for GRID-ICONS

(DEF-WINDOW-TYPE :GRID-ICON-COMS-EDITOR :RECOGNIZER (LAMBDA (WINDOW)
(EQ (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN)
'IL:LOADED-FILES-ICON-WINDOW-BUTTONEVENTFN))
:ABSTRACTER (LAMBDA (WINDOW)
(DECLARE (IGNORE WINDOW))
NIL)
:RECONSTITUTER (LAMBDA (DATA)
(DECLARE (IGNORE DATA)
(GLOBAL IL:LOADED-FILES-ICON-WINDOW))
IL:LOADED-FILES-ICON-WINDOW)
:FILES (IL:GRID-ICONS IL:RANDOM-WINDOW-TYPES))

:: special handlers for FILEWATCH. these are somewhat broken

(DEF-WINDOW-TYPE :FILE-WATCH :RECOGNIZER (LAMBDA (WINDOW)
(EQ (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN)
'IL:FW-BUTTONEVENTFN))

(DEFUN FILE-WATCH-EXIT-FUNCTION (ROOM)
(DECLARE (GLOBAL IL:|FW-Running?| IL:|FW-Anchor| IL:|FW-Position|))
(WHEN (FBOUNDP 'IL:FILEWATCH)
(COND
(IL:|FW-Running?| (ROOM-PROP ROOM :FILE-WATCH-ON? T)

```

(ROOM-PROP ROOM :FILE-WATCH-ANCHOR IL:|FW-Anchor|)
(ROOM-PROP ROOM :FILE-WATCH-POSITION (EXTERNALIZE-POSITION IL:|FW-Position|))
(LET* ((CHANGED? NIL)
      (NEW-PLACEMENTS (DELETE-IF #'(LAMBDA (PLACEMENT)
                                   (AND (EQ (IL:WINDOWPROP (PLACEMENT-WINDOW PLACEMENT)
                                                         'IL:BUTTONEVENTFN)
                                         'IL:FW-BUTTONEVENTFN)
                                         (SETQ CHANGED? T))))
      (ROOM-PLACEMENTS ROOM)))
  (WHEN CHANGED?
    (SETF (ROOM-PLACEMENTS ROOM)
          NEW-PLACEMENTS)
    (ROOM-CHANGED ROOM :PLACEMENTS)))
(IL:FILEWATCH :OFF)
(IL:PROCESS.RESULT (IL:FIND.PROCESS "FileWatcher")
  T))
(T (ROOM-PROP ROOM :FILE-WATCH-ON? NIL)
  (REMF (ROOM-PROPS ROOM)
        :FILE-WATCH-ANCHOR)
  (REMF (ROOM-PROPS ROOM)
        :FILE-WATCH-POSITION))))

```

```

(DEFUN FILE-WATCH-ENTRY-FUNCTION (ROOM)
  (DECLARE (GLOBAL IL:|FW-Properties|))
  (WHEN (FBOUNDP 'IL:FILEWATCH)
    (LET ((POS (ROOM-PROP ROOM :FILE-WATCH-POSITION))
          (ANCHOR (ROOM-PROP ROOM :FILE-WATCH-ANCHOR)))
      (WHEN POS
        (SETF (GETF IL:|FW-Properties| 'IL:POSITION)
              (INTERNALIZE-POSITION POS)))
      (WHEN ANCHOR
        (SETF (GETF IL:|FW-Properties| 'IL:ANCHOR)
              ANCHOR))
      (WHEN (ROOM-PROP ROOM :FILE-WATCH-ON?)
        (IL:FILEWATCH :ON)
        (IL:BLOCK))))))
(PUSHNEW 'FILE-WATCH-EXIT-FUNCTION *ROOM-EXIT-FUNCTIONS*)
(PUSHNEW 'FILE-WATCH-ENTRY-FUNCTION *ROOM-ENTRY-FUNCTIONS*)
(IL:PUTPROPS IL:RANDOM-WINDOW-TYPES IL:COPYRIGHT ("Venue & Xerox Corporation" 1988 1989 1990 2020))

```

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