```
(IL:RPAQQ IL:WALLPAPERCOMS ((FILE-ENVIRONMENTS IL:WALLPAPER)
                            (IL:P (EXPORT '(MAKE-WALLPAPER-WINDOW HACK-BACKGROUND)
                                          "ROOMS"))
                            (IL:FILES (IL:SYSLOAD)
                                   IL:SCREENPAPER)
                            (IL:FUNCTIONS MAKE-WALLPAPER-WINDOW WALLPAPER-WINDOW-BUTTONEVENTFN HACK-BACKGROUND
                                   )
                            (IL:WINDOW-TYPES :WALLPAPER)))


(DEFINE-FILE-ENVIRONMENT IL:WALLPAPER :COMPILER :COMPILE-FILE
   :PACKAGE "ROOMS"
   :READTABLE "XCL")

(EXPORT '(MAKE-WALLPAPER-WINDOW HACK-BACKGROUND)
       "ROOMS")

(IL:FILESLOAD (IL:SYSLOAD)
       IL:SCREENPAPER)


(DEFUN MAKE-WALLPAPER-WINDOW (&OPTIONAL REGION)
   (LET ((WINDOW (IL:CREATEW REGION "Wallpaper" 10)))
        (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN 'WALLPAPER-WINDOW-BUTTONEVENTFN)
        WINDOW))


(DEFUN WALLPAPER-WINDOW-BUTTONEVENTFN (WINDOW)
   (NOTIFY-USER "Pick regions of the screen with LEFT~%Press MIDDLE when satisfied, RIGHT to abort.")
   (LET ((SHADE (IL:SCREENPAPER WINDOW NIL 'IL:PICK)))
        (WHEN SHADE (HACK-BACKGROUND SHADE))))


(DEFUN HACK-BACKGROUND (SHADE &OPTIONAL (ROOM *CURRENT-ROOM*))

;;; set the first shade specification of ROOM to be SHADE, or add a :WHOLE-SCREEN specification ROOM has no shades specified.

   ;; always call this before we hack a room

   (UPDATE-PLACEMENTS)
   (LET ((SPECS (BACKGROUND-EXTERNAL-FORM (ROOM-BACKGROUND ROOM))))
        (DOLIST (SPEC SPECS (PUSH (LIST :WHOLE-SCREEN SHADE)
                                    SPECS))
           (CASE (FIRST SPEC)
              (:WHOLE-SCREEN
                 (SETF (SECOND SPEC)
                        SHADE)
                 (RETURN))
              (:REGION
                 (SETF (GETF SPEC :SHADE)
                        SHADE)
                 (RETURN))))
        (SETF (ROOM-BACKGROUND ROOM)
              (MAKE-BACKGROUND SPECS)))
   ;; always call this after we hack a room

   (ROOM-CHANGED ROOM :EDITED))


(DEF-WINDOW-TYPE :WALLPAPER :RECOGNIZER (LAMBDA (WINDOW)
                                          (EQ (IL:WINDOWPROP WINDOW 'IL:BUTTONEVENTFN)
                                              'WALLPAPER-WINDOW-BUTTONEVENTFN))
   :ABSTRACTER (LAMBDA (WINDOW)
                  (LIST :REGION (EXTERNALIZE-REGION (WINDOW-REGION WINDOW))))
   :RECONSTITUTER (LAMBDA (ARGS)
                     (MAKE-WALLPAPER-WINDOW (INTERNALIZE-REGION (GETF ARGS :REGION))))
   :TITLE "Wallpaper"
   :FILES (IL:WALLPAPER))

(IL:PUTPROPS IL:WALLPAPER IL:COPYRIGHT ("Venue & Xerox Corporation" 1988 1990 2020))
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