```
(RPAQQ ARMODESCOMS
       (;; provide a mechanism for change the database which the AR system uses

        ;; the interface to switch modes

        (FNS AR.MODE)
        (GLOBALVARS AR.MODE)

        ;; things for the background menu interface to mode changes

        (FNS AR.ADD.TO.BACKGROUND.MENU AR.MODE.SUBITEMS)
        (FILES DEFAULTSUBITEMFN)
        (VARS (AR.MODE.SUBITEMS)
              (\\AR.ENVIRONMENTS))
        (GLOBALVARS AR.MODE.SUBITEMS \\AR.ENVIRONMENTS)

        ;; the ar environment -- everything you need to switch modes

        (RECORDS AR.ENVIRONMENT)
        (GLOBALVARS AR.ENVIRONMENTS)

        ;; installation

        (P (AR.ADD.TO.BACKGROUND.MENU)

           ;; if there's nothing set up already assume it's the Lisp mode and construct the environment

           (|if| (NOT (BOUNDP 'AR.ENVIRONMENTS))
                 |then|
                 (LET ((ORIGINALENVIRONMENT (|create| AR.ENVIRONMENT)))
                      (|for| FIELD |in| (RECORDFIELDNAMES 'AR.ENVIRONMENT)
                             |do|
                             (RECORDACCESS FIELD ORIGINALENVIRONMENT (RECLOOK 'AR.ENVIRONMENT)
                                    'REPLACE
                                    (EVAL FIELD)))
                      (SETQ AR.ENVIRONMENTS (LIST 'LISP ORIGINALENVIRONMENT)))
                 (AR.MODE 'LISP)))))
```

;; provide a mechanism for change the database which the AR system uses

;; the interface to switch modes

```
(DEFINEQ

(AR.MODE
  (LAMBDA (MODE)                                          ; Edited  5-Aug-88 18:22 by Burwell
    (|if| (NULL MODE)
          |then| (PROMPTPRINT "AR mode is " AR.MODE)
                 AR.MODE
          |else| (LET ((ENVIRONMENT.FOR.MODE (LISTGET AR.ENVIRONMENTS MODE)))
                      (|if| ENVIRONMENT.FOR.MODE
                            |then| (|if| (OR (FIND.PROCESS 'AR.QUERY.FORM.TEMP)
                                             (FIND.PROCESS 'AR.FORM.TEMP)
                                             (FIND.PROCESS 'AR.FORM.MENU)
                                             (FIND.PROCESS 'AR.FORM)
                                             (FIND.PROCESS 'AR.QUERY.FORM))
                                         |then| (PROMPTPRINT "Please close open AR windows before changing modes.")
                                         |else| (SETQ AR.MODE MODE)
                                                (|for| VAR |in| (RECORDFIELDNAMES 'AR.ENVIRONMENT)
                                                       |do| (SET VAR (RECORDACCESS VAR ENVIRONMENT.FOR.MODE (RECLOOK
                                                                                                              'AR.ENVIRONMENT))
                                                              ))
                                                (PROMPTPRINT "AR mode set to " MODE))
                            |else| (PROMPTPRINT "AR mode " MODE " not recognized.")))))))
)

(DECLARE\: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS AR.MODE)
)
```

;; things for the background menu interface to mode changes

```
(DEFINEQ
```

(AR.ADD.TO.BACKGROUND.MENU

```
  (LAMBDA NIL                                                      ; Edited  2-Aug-88 15:58 by Burwell
    (|if| (NOT (|for| E |in| |BackgroundMenuCommands| |thereis| (EQUAL "AR Mode" (AND (LISTP E)
                                                                                      (CAR E)))))
        |then| (|push| |BackgroundMenuCommands| `("AR Mode" '(AR.MODE)
                                                  "Displays current AR mode."
                                                  (EVAL (AR.MODE.SUBITEMS))))
            (SETQ |BackgroundMenu| NIL))))
```

(AR.MODE.SUBITEMS

```
  (LAMBDA NIL                                                      ; Edited  2-Aug-88 15:56 by Burwell
    (|if| (EQUAL AR.ENVIRONMENTS \\AR.ENVIRONMENTS)
        |then| AR.MODE.SUBITEMS
      |else| (LET ((MODES (|for| MODE |in| AR.ENVIRONMENTS |by| (CDDR MODE) |collect| MODE)))
                (SETQ AR.MODE.SUBITEMS (|for| MODE |in| MODES
                                              |collect| `(,MODE '(AR.MODE ',MODE)
                                                          ,(CONCAT "Set AR mode to " MODE))))
                (SETQ \\AR.ENVIRONMENTS (COPY AR.ENVIRONMENTS))
                AR.MODE.SUBITEMS))))
)

(FILESLOAD DEFAULTSUBITEMFN)

(RPAQQ AR.MODE.SUBITEMS NIL)

(RPAQQ \\AR.ENVIRONMENTS NIL)

(DECLARE\: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS AR.MODE.SUBITEMS \\AR.ENVIRONMENTS)
)
```

;; the ar environment -- everything you need to switch modes

```
(DECLARE\: EVAL@COMPILE

(RECORD AR.ENVIRONMENT (AR.NO.MESSAGE.FLG AR.INDEX.DEFAULT.FILE.NAME AR.INFO.FILE.NAME AR.DIRECTORY
                         AR.FORM.FORMAT AR.FORM.SPECS AR.SUBMIT.NUM.FILE.NAME AR.DISPLAY.FIELDS
                         AR.SUMMARY.FIELDS AR.CLEANUP.SORT.ORDER AR.SORT.SPEC.ITEMS AR.QUERY.SPEC.ITEMS
                         AR.INDEX.CACHE.FILE.NAME AR.IDENTIFICATION.STRING AR.INTERESTING.SUBMIT.FIELDS))
)

(DECLARE\: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS AR.ENVIRONMENTS)
)
```

;; installation

(**AR.ADD.TO.BACKGROUND.MENU**)

;; if there's nothing set up already assume it's the Lisp mode and construct the environment

```
(|if| (NOT (BOUNDP 'AR.ENVIRONMENTS))
    |then| (LET ((ORIGINALENVIRONMENT (|create| AR.ENVIRONMENT)))
              (|for| FIELD |in| (RECORDFIELDNAMES 'AR.ENVIRONMENT) |do| (RECORDACCESS FIELD ORIGINALENVIRONMENT
                                                                          (RECLOOK 'AR.ENVIRONMENT)
                                                                          'REPLACE
                                                                          (EVAL FIELD)))
              (SETQ AR.ENVIRONMENTS (LIST 'LISP ORIGINALENVIRONMENT)))
          (AR.MODE 'LISP))

(PUTPROPS ARMODES COPYRIGHT ("Xerox Corporation" 1988))
```

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