Custumizing TeX_{MACS}

Nicolas Ratier

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1. The T_EX_{MACS} Keyboard

- 5 modifier keys (**SCHeMA**)
- Edit \rightarrow Preferences \rightarrow Keyboard \rightarrow Caps-lock key \rightarrow Map to H modifier



- \rightarrow S- (Shift key combinations)
- \rightarrow C- (Control key combinations)
- \rightarrow H- (Hyper key combinations)
- \rightarrow M- (Meta key combinations)
- \rightarrow A- (Alternate key combinations)

For writing upper letters (as usual)

For frequently used editing commands

For producing special symbols

For general purpose commands which can be used in all modes

For commands which depend on the mode that you are in

2. How T_EX_{MACS} defined its own menus

• The main menu is defined in the file:

\$TEXMACS_PATH/progs/menus/menu-main.scm

```
(menu-bind texmacs-menu
 (=> "File" (link file-menu))
 (=> "Edit" (link edit-menu))
 (if (not (in-graphics?)) (=> "Insert"
                                              (link insert-menu)))
 (if (in-source?)
                           (=> "Source"
                                              (link source-menu)))
  (if (in-text?)
                                              (link text-menu)))
                           (=> "Text"
                                              (link mathematics-menu)))
 (if (in-math?)
                           (=> "Mathematics"
 (if (in-io?)
                           (=> "Session"
                                              (link session-main-menu)))
  (if (in-graphics?)
                           (=> "Graphics"
                                              (link graphics-menu)))
  (if (in-table?)
                           (=> "Table"
                                              (link table-menu)))
  (link texmacs-extra-menu)
  (if (not (in-graphics?)) (=> "Format"
                                              (link format-menu)))
  (=> "Document" (link document-menu))
  (if (project-attached?) (=> "Project"
                                              (link project-menu)))
  (=> "View"
                 (link view-menu))
  (=> "Go"
                 (link go-menu))
                 (link tools-menu))
 (=> "Tools"
  (=> "Help"
                 (link help-menu)))
```

- The constructor (menu-bind) is used to define (or modify) a menu
- The constructor (link) is used to link a submenu (defined elsewhere)

• The "File" submenu is defined in the file

\$TEXMACS_PATH/progs/menus/menu-file.scm

```
(menu-bind file-menu
 ("New"
                       (new-buffer))
 ("Load" ...
                       (choose-file "Load file" "" 'load-buffer))
                       (save-buffer))
 ("Save"
                   (choose-file "Save TeXmacs file" "texmacs" 'save-buffer))
 ("Save as" ...
 ("Revert"
                       (revert-buffer))
 (-> "Page setup"
                       (link page-setup-menu))
 (-> "Print"
                       (link print-menu))
 (-> "Import"
                       (promise (import-menu-promise #f)))
 (-> "Export"
     (promise (export-menu-promise #f))
     ("Pdf"
                   ... (choose-file "Save pdf file" "pdf" 'print-to-file))
     ("PostScript" ... (choose-file "Save postscript file" "postscript" 'print-to-file)))
 ("Close buffer"
                       (safely-kill-buffer))
 ("Close TeXmacs"
                       (safely-quit-TeXmacs)))
```

3. How to create its own menus

You must use you personal initialization file:

\$TEXMACS_HOME_PATH/progs/my-init-texmacs.scm

```
(menu-bind texmacs-extra-menu
 (=> "AAA" (link aaa-menu))
 (=> "BBB" (link aaa-menu)))
;; The AAA menu
(menu-bind aaa-menu
 ("AAA 111" (insert "Menu: aaa 111"))
 ("AAA 222" (insert "Menu: aaa 222"))
 (-> "AAA 333" (link file-menu))
 (-> "AAA 444" (link file-menu)))
```

- The constructor => is used to create pulldown menu
- The constructor -> is used to create pullright menu
- The constructor . . . is used to separate items of a menu

4. How to create its own keyboard shortcuts

```
;; Keyboard shortcuts only valid in text-mode
(kbd-map
 (:mode in-text?)
 ("M-A-w"
                (insert "Welcome in RMLL 2005"))
 ("e q u ." (begin (insert "Eq. (") (make 'reference) (insert "equ:")))
 ("f i g ." (begin (insert "Fig. ") (make 'reference) (insert "fig:")))
 ("t a b ." (begin (insert "Table ") (make 'reference) (insert "tab:")))
 ("r e f ." (begin
                                             (insert "bib:"))))
                              (make 'cite)
;; Keyboard shortcuts only valid in math-mode
(kbd-map
 (:mode in-math?)
 ("g r a d ." (insert "<nabla>"))
 ("d i v ." (insert "<nabla><cdot>"))
 ("r o t ." (insert "<nabla><times>")))
(kbd-map
 (:mode in-math?)
 ("e q u ." (begin (make 'label) (insert "equ:"))))
```

• Example

Welcome in RMLL 2005 grad, div, rot: $\nabla \nabla \cdot \nabla \times$

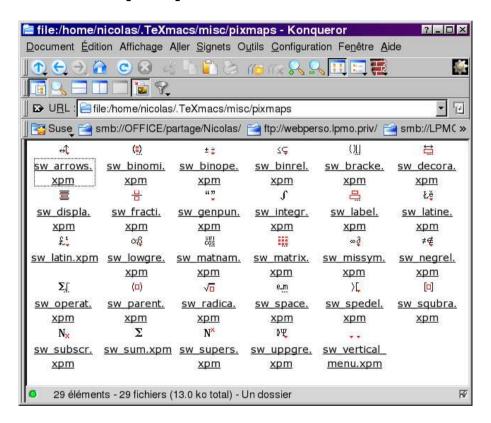
5. How to create its own icons menu

```
:: User defined icons
(menu-bind texmacs-extra-icons
 (=> (balloon (icon "sw_lowgre.xpm") "Lowercase Greek")
      (tile 4 (link sciword-lowercase-greek)))
 (=> (balloon (icon "sw_uppgre.xpm") "Uppercase Greek")
     (tile 2 (link sciword-uppercase-greek)))
 (=> (balloon (icon "sw_binope.xpm") "Binary Operations")
     (tile 5 (link sciword-binary-operations)))
 (=> (balloon (icon "sw_binrel.xpm") "Binary Relations")
     (tile 7 (link sciword-binary-relations)))
 (=> (balloon (icon "sw_negrel.xpm") "Negated Relations")
     (tile 5 (link sciword-negated-relations)))
 (=> (balloon (icon "sw_arrows.xpm") "Arrows")
     (tile 5 (link sciword-arrows)))
 (=> (balloon (icon "sw_missym.xpm") "Miscellaneous Symbols")
     (tile 5 (link sciword-miscellaneous-symbols)))
 (=> (balloon (icon "sw_spedel.xpm") "Specials Delimiters")
     (tile 2 (link sciword-specials-delimiters))))
```

The constructor | is used to separate icons of a menu

```
;; Lowercase Greek
(menu-bind sciword-lowercase-greek
                      (symbol "<beta>")
                                                                   (symbol "<delta>")
  (symbol "<alpha>")
                                              (symbol "<gamma>")
 (symbol "<epsilon>") (symbol "<varepsilon>") (symbol "<zeta>")
                                                                   (symbol "<eta>")
 (symbol "<theta>") (symbol "<vartheta>")
                                              (symbol "<iota>")
                                                                   (symbol "<kappa>")
 (symbol "<lambda>") (symbol "<mu>")
                                              (symbol "<nu>")
                                                                   (symbol "<xi>")
 (symbol "<pi>")
                      (symbol "<varpi>")
                                              (symbol "<rho>")
                                                                   (symbol "<sigma>")
 (symbol "<varsigma>") (symbol "<tau>")
                                              (symbol "<upsilon>") (symbol "<phi>")
 (symbol "<varphi>") (symbol "<chi>")
                                              (symbol "<psi>")
                                                                   (symbol "<omega>")
 (symbol "<varkappa>") (symbol "<varrho>"))
;; Uppercase Greek
(menu-bind sciword-uppercase-greek
 (symbol "<Gamma>") (symbol "<Delta>")
 (symbol "<Theta>") (symbol "<Lambda>")
 (symbol "<Xi>") (symbol "<Pi>")
 (symbol "<Sigma>") (symbol "<Upsilon>")
 (symbol "<Phi>") (symbol "<Psi>")
 (symbol "<Omega>") (symbol "<digamma>"))
. . .
```

The icons in *.xpm format must be put in the directory \$TEXMACS_HOME_PATH/misc/pixmaps



The user's icons must be made visible:

View → User provided icons