ユーティリティ関数群

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init.el に記述していた便利関数を、utility.el として分離しています。init.el では autoload を用いて utility.el を遅延読み込みするように設定してます。このようなファイルの分離で60[ms]ほど起動を高速化できます。

注意: コピペだけでは動かない可能性があります。

1. org バッファを評価

org-buffer を評価して Emacs の設定ファイルを生成 / 読み込みまでを自動化します。この

設定では、 init.org と utility.org の2つのバッファでのみ評価されるようになっています。

2. ユーティリティ関数

2.1. サボっていると Kyoko さんに怒られる

MacOS 用の関数です。別途、Kyoko さんの音声をインストールしておく必要があります。 Mavericks だと、Otoya さんも使えます。

2.2. org-buffer を dokuwiki 形式に変換し、kill-ring に格納

外部プログラム org2dokuwiki.pl を使います。

2.3. コンソールでカレントバッファのあるディレクトリに移動する

Finder で開きたいだけならば、 M-! でミニバッファに open . と打ち込むだけです。

```
(defcustom open-current-directory-console-program "iTerm2.app"
 "Specify a console program"
 :type 'string
 :group 'takaxp-mac)
(defun open-current-directory ()
 " Open Current Directory for MacOSX
 0) Put this function in your .emacs
 1) M-x open-current-directory
 2) Terminal will open automatically
 3) Type M-v to paste and move to a path to the current directory in Emacs"
 (interactive)
 (let ((file-path (buffer-file-name (current-buffer))))
   (unless (string= file-path nil)
    (let ((directory
          (substring file-path 0
                   (length file-path)
                    (length (buffer-name (current-buffer)))))))
      (message "%s" directory)
      (shell-command-to-string (concat "echo cd " directory " |pbcopy"))
      (shell-command-to-string
       (concat "open -a " open-current-directory-console-program))))))
```

*

3. ファイルに含まれるテーブルを使って定時に growl のアラート を表示する

```
(defun set-alarms-from-file (file)
 "Make alarms from org-mode tables. If you have an org-mode file
      with tables with the following format:
       |-----
       | Flag | Time | Content
       |-----
           | 07:00 | Wakeup
            | Read papers
       When it is 7:00 and 12:00, Growl notify with a message which is
specified
      content column from the table. \"Read papers\" will be ignored.
      \"Clean up your desk\" will be shown by sticky mode"
    ((lines (read-line file)))
  (cancel-function-timers 'my:desktop-notify) ;; clear existing timers
  (while lines
    (set-alarm-from-line (decode-coding-string (car lines) 'utf-8))
    (setq lines (cdr lines))
            (message "")
    ;;
    ))))
(defun set-alarm-from-line (line)
    ((hour nil)
    (min nil)
```

```
(current-hour nil)
     (current-min nil)
     (action nil))
   (when (string-match "\([0-2]?[0-9]\):\([0-5][0-9]\)" line)
     (setq hour (substring line (match-beginning 1) (match-end 1)))
     (setq min (substring line (match-beginning 2) (match-end 2)))
     (when (string-match
          "\\\s-*\\([^\\]+[^ ]\\)\\s-*\\$" line (match-end 2))
      (setq action
           (substring line (match-beginning 1) (match-end 1)))))
   (when (and (and hour min) action)
             (message "[%s:%s] => %s" hour min action)
    (setg current-hour (format-time-string "%H" (current-time)))
     (setq current-min (format-time-string "%M" (current-time)))
     (when (> (+ (* (string-to-number hour) 60)
               (string-to-number min))
            (+ (* (string-to-number current-hour) 60)
               (string-to-number current-min)))
      (let
          ((s nil))
        (when (string-match "^{\}|\\s-*X\\s-*\|" line)
          (setq s 'sticky))
                (set-notify-growl hour min action s)
        (set-notify-osx-native hour min action s)
        (set-notify-mail hour min action s)
        ))))))
(when (eval-after-autoload-if-found
      '(todochiku-message) "todochiku" nil t nil
      '((setq todochiku-icons-directory "~/Dropbox/emacs.d/todochiku-icons")
       (add-to-list 'todochiku-icons '(emacs . "emacs.png"))
       ) )
 (require 'cl))
(defun my:desktop-notify (type title hour min action s)
 "NOTE: this function need (require 'todochiku)"
 (cond
  ;; ((string= type "growl")
  ;; (todochiku-message
     title (format "%s:%s %s" hour min action) "Emacs" s))
  ((string= type "osx-native")
   (shell-command-to-string
    (concat "terminal-notifier -title \"Emacs\" -message \""
          (format "%s:%s %s" hour min action) "\"")))
  (t nil)))
(defun set-notify-mail (hour min action s)
 (run-at-time (format "%s:%s" hour min) nil
            'my:desktop-notify
            "mail" "りまいんだ" hour min action nil))
(defun set-notify-growl (hour min action s)
 (run-at-time (format "%s:%s" hour min) nil
            'my:desktop-notify
            "growl" "== REMINDER ==" hour min action s))
(defun set-notify-osx-native (hour min action s)
 "terminal-notifier is required."
 (run-at-time (format "%s:%s" hour min) nil
            'my:desktop-notify
```

```
"osx-native" "Emacs" hour min action nil))

(defun read-line (file)
  "Make a list from a file, which is divided by LF code"
  (with-temp-buffer
    (insert-file-contents-literally file)
    (split-string
      (buffer-string) "\n" t)))
```

3.1. 頻繁に利用するファイルを ring 形式でたどる

http://d.hatena.ne.jp/rubikitch/20111120/elispbook

3.2. 引数の org バッファを開く

```
(defun show-org-buffer (file)
  "Show an org-file on the current buffer"
  (interactive)
  (if (get-buffer file)
        (let ((buffer (get-buffer file)))
        (switch-to-buffer buffer)
        (message "%s" file))
        (find-file (concat "~/Dropbox/org/" file))))
```

3.3. org バッファにいつものヘッダを追加する

3.4. 議事録ひな形を書き入れる

3.5. ランダムの文字列を取得する

引数で桁数を渡すと、ランダムな数値の文字列を取得できます。org-mode で適当なタイト ルのツリーを生成したい時に使っています。

```
(defun get-random-string (length)
 "Get a string contain the length digit number with random selection"
 (interactive)
 (random t)
 (cond ((> length 0)
       (let
           ((count length)
            (string nil)
            (tmp nil))
         (while (< 0 count)</pre>
           (setq count (1- count))
           (setq tmp string)
           (setq string
                (concat tmp (number-to-string (random 10)))))
         (message "%s" string)))
       (t "0")))
```

3.6. Auto-install をセットアップする

いつも auto-install を使うわけではないので、必要時に init-auto-install を実行してパラメータを設定してから auto-install でパッケージを取得するようにしています。 cask+pallet 環境に移行してからは使っていません。

3.7. 行頭に" - "を挿入する

3.7.1. キーバインド

```
C-u C-M-- とすれば、[]を付加できます。
```

```
(global-set-key (kbd "C-M--") 'add-itemize-head)
```

3.8. 日付などを簡単に挿入する

http://www.fan.gr.jp/~ring/doc/elisp 20/elisp 38.html#SEC608

```
(defun insert-formatted-current-date ()
 "Insert a timestamp at the cursor position. C-u will add [] brackets."
 (interactive)
 (insert (format-time-string "%Y-%m-%d")))
(defun insert-formatted-current-time ()
 (interactive)
 (insert (format-time-string "%H:%M")))
(defun insert-formatted-signature ()
 (interactive)
 (insert (concat (format-time-string "%Y-%m-%d") " user-full-name
              " <" user-mail-address ">")))
(defun insert-formatted-current-date (arg)
 "Insert a timestamp at the cursor position. C-u will add [] brackets."
 (interactive "p")
 (case arg
   (4 (if (equal major-mode 'org-mode)
         (org-time-stamp-inactive)
       (insert (format-time-string "[%Y-%m-%d]"))))
   (t (insert (format-time-string "%Y-%m-%d")))))
(defun insert-formatted-current-time ()
 (interactive)
 (insert (format-time-string "%H:%M")))
(defun insert-formatted-signature ()
 (interactive)
 (insert (concat (format-time-string "%Y-%m-%d") " user-full-name
              " <" user-mail-address ">")))
```

3.8.1. キーバインド

```
(global-set-key (kbd "C-0") 'insert-formatted-current-date)
```

3.9. XHTML を利用したガントチャート生成

最近使っていません。

```
(defcustom my:auto-install-batch-list-el-url nil
 "URL of a auto-install-batch-list.el"
 :type 'string
 :group 'takaxp-utility)
;; Publish an xml file to show a Gantt Chart
(defcustom default-timeline-csv-file nil
 "source.csv"
 :type 'string
 :group 'takaxp-utility)
(defcustom default-timeline-xml-business-file nil
 "XML file for business schedule"
 :type 'string
 :group 'takaxp-utility)
(defcustom default-timeline-xml-private-file nil
 "XML file for private schedule"
 :type 'string
 :group 'takaxp-utility)
(defcustom default-timeline nil
 "a template index.html"
 :type 'string
 :group 'takaxp-utility)
(defun export-timeline-business ()
 "Export schedule table as an XML source to create an web page"
 (interactive)
 (when (and default-timeline
           (and default-timeline-csv-file
              default-timeline-xml-business-file))
   (shell-command-to-string (concat "rm -f " default-timeline-csv-file))
   (org-table-export default-timeline-csv-file "orgtbl-to-csv")
   (shell-command-to-string (concat "org2gantt.pl > "
                               default-timeline-xml-business-file))
   (shell-command-to-string (concat "open " default-timeline))))
(defun export-timeline-private ()
 "Export schedule table as an XML source to create an web page"
 (interactive)
 (when (and default-timeline
           (and default-timeline-csv-file
               default-timeline-xml-private-file))
   (shell-command-to-string (concat "rm -f " default-timeline-csv-file))
   (org-table-export default-timeline-csv-file "orgtbl-to-csv")
   (shell-command-to-string (concat "org2gantt.pl > "
                               default-timeline-xml-private-file))
   (shell-command-to-string (concat "open " default-timeline))))
```

3.10. 定期実行関数

org バッファからカレンダーを生成し、外部サーバに投げます。また、MobileOrg に最新情

報を流しています。

```
(with-eval-after-load "org"
  (run-with-idle-timer 600 t 'reload-ical-export)
  (run-with-idle-timer 1000 t 'org-mobile-push))

(defun reload-ical-export ()
  "Export org files as an iCal format file"
  (interactive)
  (when (string= major-mode 'org-mode)
        (my:ox-icalendar)))
```

3.11. ブラウザの設定

```
;; http://stackoverflow.com/questions/4506249/how-to-make-emacs-org-mode-open-
links-to-sites-in-google-chrome
;; http://www.koders.com/lisp/fidD53E4053393F9CD578FA7D2AA58BD12FDDD8EB89.aspx?
s="skim
(eval-after-autoload-if-found
 '(my:browse-url-chrome) "browse-url" nil t nil
 '((defun my:browse-url-chrome (url &optional new-window)
    "Set default browser to open a URL"
    (interactive (browse-url-interactive-arg "URL: "))
    (start-process "google-chrome" nil "google-chrome" url))
  ;; Open a link with google-chrome for Linux
  (when (not (eq window-system 'ns))
    (setq browse-url-browser-function 'browse-url-generic
         browse-url-generic-program "google-chrome")
  ))
                                  ; (setq browse-url-browser-function 'browse-
url-default-macosx-browser)
                                  ; (setq browse-url-browser-function 'browse-
url-default-windows-browser)
                                  ; (setq browse-url-browser-function 'browse-
url-chrome)
```

3.12. ミニバッファに日時を表示

3.13. バックアップファイルの削除

```
(defun delete-backup-files (&optional day-shift)
 "Delete backup files created in yesterday.
 > find ~/.emacs.d/backup -type f -name '*YY-MM-DD *' -print0 | xargs -0"
 (interactive)
 (unless day-shift
  (setq day-shift 1))
 (let* ((backup-dir "~/.emacs.d/backup")
       (cmd (concat "find " backup-dir " -type f -name \'*"
                  (format-time-string
                   "%y-%m-%d "
                   (time-subtract (current-time)
                               (seconds-to-time
                                (* day-shift (* 24 3600)))))
                  "*\' -print0 | while read -r -d \'\' file; "
                  " do echo -n \" \\\"$file\\\"\"; done | xargs -0"))
       (files (shell-command-to-string cmd)))
          (message "%s" cmd)
   (unless (string= files "")
    (message "%s" files)
    (shell-command-to-string (concat "rm -r " files)))))
```

3.14. その他

```
;;; Test function from GNU Emacs (O'REILLY, P.328)
(defun count-words-buffer ()
 "Count the number of words in the current buffer"
 (interactive)
 (save-excursion
   (let ((count 0))
    (goto-char (point-min))
    (while (< (point) (point-max))</pre>
      (forward-word 1)
      (setq count (1+ count)))
    (message "buffer contains %d words." count))))
 ;;; Test function for AppleScript
 ;;; Cite: http://sakito.jp/emacs/emacsobjectivec.html
(defun do-test-applescript ()
 (interactive)
 (do-applescript
  (format
   (concat
   "display dialog \"Hello world!\" \r"))))
(defun describe-timer ()
 "A modified. see http://masutaka.net/chalow/2009-12-05-1.html"
 (interactive)
 (let ((tl timer-list) time
      (timer nil))
   (pop-to-buffer (get-buffer-create "*timer*"))
   (erase-buffer)
   (insert
   "TIME
                  FUNCTION\n"
   "----\n")
   (while tl
    (setq timer (car tl))
    (insert
     (concat
      (format-time-string "%m/%d %T"
```

4. 未設定 / テスト中

4.1. byte-compile の警告を抑制する

4.2. [window-resizer.el] 分割したウインドウサイズを変更する

http://d.hatena.ne.jp/khiker/20100119/window resize

以下の警告を参考に書き換えた。

```
In my:window-resizer:
utility.el:333:23:Warning: `last-command-char' is an obsolete variable (as of
   Emacs at least 19.34); use `last-command-event' instead.
;;;###autoload
(defun takaxp:window-resizer ()
 "Control separated window size and position.
  Type {j,k,l,m} to adjust windows size."
 (interactive)
 (let ((window-obj (selected-window))
       (current-width (window-width))
       (current-height (window-height))
       (dx (if (= (nth 0 (window-edges)) 0) 1
            -1))
       (dy (if (= (nth 1 (window-edges)) 0) 1
            -1))
      action c)
   (catch 'end-flag
     (while t
       (setq action
            (read-key-sequence-vector (format "size[%dx%d]"
                                         (window-width)
                                         (window-height))))
       (setq c (aref action 0))
       (cond ((= c ?1)
             (enlarge-window-horizontally dx))
            ((= c ?h)
             (shrink-window-horizontally dx))
            ((= c ?j)
             (enlarge-window dy))
            ((= c ?k)
             (shrink-window dy))
            ;; otherwise
            (t
```

```
(let ((last-command-event (aref action 0))
          (command (key-binding action)))
      (when command
          (call-interactively command)))
      (message "Quit")
      (throw 'end-flag t)))))))
```

4.3. [idle-requie]

```
(require 'idle-require)
(idle-require-mode 1)
```

4.4. [pdf-preview]

```
(require 'pdf-preview)
```

4.5. [EasyPG]

```
(when (require 'epa-setup nil t)
  (epa-file-enable))
```

4.6. [eblook]

```
;; eblook
(when (require 'eblook nil t)
  (autoload 'edict-search-english "edic"
    "Search for a translation of an English word" t)
  (autoload 'edict-search-kanji "edict"
    "Search for a translation of a Kanji sequence" t)
  (setq *edict-files* '("/Users/taka/Dropbox/Dic/LDOCE4"))
  (setq *edict-files* '("/Users/taka/Downloads/edict/edict")))
```

4.7. [iBuffer]

iBuffer で list-buffers をオーバーライド (C-x C-b で表示)

```
(defalias 'list-buffers 'ibuffer)
```

4.8. キーバインド

```
;; Multiple combination
; Editing with a rectangle region
(global-set-key (kbd "C-x r C-SPC") 'rm-set-mark)
(global-set-key (kbd "C-x r C-x") 'rm-exchange-point-and-mark)
(global-set-key (kbd "C-x r C-w") 'rm-kill-region)
(global-set-key (kbd "C-x r M-w") 'rm-kill-ring-save)
```

5. provide

```
(provide 'utility)
```