

Emacs Tipps & Tricks

Emacs is the Program I live in.

I don't use Emacs for everything, because it is not best for everything, but any tool that cannot be integrated with Emacs requires considerably more context switches than if it can be integrated.

Also see the [org-mode tips](#). Org-mode is what binds Emacs together for me.

Other larger topics have their own articles:

- [Emacs for Javascript development](#) — it keeps up on the raw coding part, and the integration turns it into the best tool. Jumping from the org-mode planning document into the code project and back knows no equal.
- [What I need from IntelliJ and what I miss when not using Emacs](#) — why I don't (yet?) use Emacs for Java development.

Contents

Initialize use-package

This is the basis for most of the setups here. Put it into `$HOME/.emacs.de/init.el`

```
(require 'package)
(add-to-list 'package-archives '("melpa" . "https://melpa.org/packages/") t)
;; Also see `package-archive-priorities` and `package-pinned-packages`.
(package-initialize)
;; This is only needed once, near the top of the file
(eval-when-compile
  ;; Following line is not needed if use-package.el is in ~/.emacs.d
  (add-to-list 'load-path "<path where use-package is installed>")
  (require 'use-package))
```

TODO Simple EXWM setup

[EXWM](#) is a window manager running in Emacs. It's actually awesome to work in it, though it still has some rough edges.

I started using exwm seriously when Gnome Shell killed my keyboard layout once too often while switching users and Chromium corrupted its shortcuts when I set my keyboard layout again. Now exwm is my regular work environment.

I'm typing this from my Emacs running exwm.

Setup (needs **Initialize use-package**):

```
;;; Setup EXWM
(use-package exwm :ensure t
  :custom ;; move/resize floating buffers
  ;; with Alt left-click/Alt right-click
  (exwm-input-move-event [M-down-mouse-1])
  (exwm-input-resize-event [M-down-mouse-3])
  ;; make window borders easier to grab to
  ;; enable resizing outside the modeline
  (exwm-floating-border-width 2)
  (window-divider-default-right-width 6)
  (window-divider-default-bottom-width 0) ;; use the modeline
  (desktop-environment-update-exwm-global-keys nil)
  ;; use a larger systemtray for (exwm-systemtray-mode)
  (exwm-systemtray-height 32)
  ;; Make buffer name more meaningful
  (exwm-update-title-hook
   '((lambda nil
        (exwm-workspace-rename-buffer exwm-class-name))))
  ;; always enable switching to any buffer from any workspace
  (exwm-workspace-show-all-buffers t)
  :config
  ;; Allow resizing with mouse, of non-floating windows.
  (setq window-divider-default-bottom-width 2)
  ;; do not open new frame for ediff: that would break
  (setq ediff-window-setup-function #'ediff-setup-windows-plain)
  (window-divider-mode)
  ;; show the time in the modeline (also see the customization in the variables)
  (display-time-mode)
  ;; disable CTRL-z (pause), because it breaks my workflows and exwm
  (global-unset-key (kbd "C-z")))

;;; Start pinentry, so passwords for ssh and gnupg use Emacs mechanisms
(use-package pinentry
  :ensure t
  :config
  (pinentry-start))

;;; Setup type-break mode such that it does not block EXWM
```

```

(use-package type-break
  :custom
  (type-break-demo-boring-stats t)
  (type-break-mode-line-message-mode t)
  :config
  ;; ignore errors for type-break mode. A missing type-break stats
  ;; file can break startup otherwise.
  (ignore-errors (type-break-mode t))
  ;; the regular y-or-n-p or yes-or-no-p break exwm when in an X11 window.
  (add-hook 'exwm-init
    (lambda ()
      (setq type-break-query-function
        (lambda (msg)
          (ding)
          (alert msg
            :severity 'high
            :title "M-x type-break"
            :icon "warning"))))))))

```

I currently start my session as normal in Gnome Shell (to get all the monitor setup and tweaks), then start Emacs and just run

M-x exwm-init

(answer yes: replace existing window manager)

To be able to switch back, you can get the current window manager with

```

wmctrl -m
# in guix you can install and run it in one step:
# guix shell wmctrl -- wmctrl -m

```

Simple EXWM setup for two screens

The tutorials I found to setup EXWM for two screens are much too complex.

In addition to the changes above, you just need exwm-randr.

I have two screens: HDMI-1, the primary screen, and DP-1, the secondary that is somewhat smaller than the primary.

Use arandr to find the correct position for the secondary screen. For me it is 1920x120: The width of the primary screen and the difference in height (resolution) between both.

Setup (needs **Initialize use-package**):

```

;; Enable exwm-randr before exwm-init gets called
(use-package exwm-randr

```

```

;; :if dw/exwm-enabled
:after (exwm)
:custom
;; two workspaces
(exwm-workspace-number 2)
;; move the second workspace to the secondary monitor,
;; the others are on the primary display
(exwm-randr-workspace-monitor-plist '(1 "DP-1"))
;; enable switching to any buffer from any workspace
(exwm-workspace-show-all-buffers t)
(exwm-layout-show-all-buffers t)
:config
(exwm-randr-enable)
;; update the screen setup when a screen is turned on or off
(add-hook 'exwm-randr-screen-change-hook
  (lambda ()
    (start-process-shell-command
      "xrandr" nil
      "xrandr --output HDMI-3 --primary --auto --pos 0x0 --output DP-1 --auto --pos 1920x

```

Controlling pulseaudio from EXWM

I need mouse-controlled volume. The desktop-environment package provides it, but out of the box only for amixer. I adjusted it for pulseaudio.

Also I added the volume to the modline, with scrollwheel control: Scroll up or down to increase or decrease volume.

Setup (needs `Initialize use-package`):

```

(use-package desktop-environment :ensure t
  :custom
  (desktop-environment-screenshot-directory "~/Bilder")
  (desktop-environment-volume-normal-decrement "-5%")
  (desktop-environment-volume-normal-increment "+5%")
  (desktop-environment-volume-get-command
    "LC_ALL=C pacmd list-sinks|grep -A 15 '* index'| awk '/volume: front/{ print $5 }'")
  (desktop-environment-volume-set-command
    ;; auto-detect the active sink.
    "LC_ALL=C pactl set-sink-volume $(pacmd list-sinks|grep -o '* index.*' | grep -o '
  (desktop-environment-volume-small-decrement "-1%")
  (desktop-environment-volume-small-increment "+1%")
  :config
  (desktop-environment-mode)
  ;; the sigma and pi commands are optimized for https://www.neo-layout.org/

```

```
(global-set-key (kbd "M-σ") 'desktop-environment-volume-decrement-slowly)
(global-set-key (kbd "M-π") 'desktop-environment-volume-increment-slowly)
(global-set-key (kbd "M--") 'desktop-environment-volume-decrement)
(global-set-key (kbd "M-+") 'desktop-environment-volume-increment))
```

```
(define-minor-mode display-volume-mode
  "Toggle display of volume in mode lines.
```

Depends on desktop-environment.

When Display Time mode is enabled, it queries the volume from your system on every displaying using desktop-environment-volume-get (which you can customize)."

```
:global t :group 'desktop-environment
(or global-mode-string (setq global-mode-string '(""))))
(setq display-volume-keymap (make-sparse-keymap))
(define-key display-volume-keymap (kbd "<mode-line> <mouse-4>")
  'desktop-environment-volume-increment-slowly)
(define-key display-volume-keymap (kbd "<mode-line> <mouse-5>")
  'desktop-environment-volume-decrement-slowly)
(setq display-volume-modeline-entry
  '(:eval (propertize (format " V:%s%% " (desktop-environment-volume-get))
    'keymap display-volume-keymap)))
(if display-volume-mode
  (progn
    (or (memq display-volume-modeline-entry global-mode-string)
      (setq global-mode-string
        (append global-mode-string (list display-volume-modeline-entry))))))
  (display-volume-mode))
```

elfeed and emms: listen to podcast with convenience

[Elfeed](#) enables the nicest podcast integration I know: Treat podcast entries as regular RSS entries, but hit **A** to enqueue them in [emms](#).

Usage:

- Prepare emms with M-x `emms-playlist-mode-go`
- Update your feeds with M-x `elfeed-update`
- Read your feeds with M-x `elfeed`; hit **enter** to open an entry, then **n** and **p** to switch between them *quickly* (that's the speed I wish to have everywhere).

- Hit **A** to enqueue the file in emms.
- Start listening to media with **M-x emms-start**.
- Keep queueing up further interesting entries from elfeed.
- Do something else while listening :-)
- Pause emms with **M-x emms-pause** when needed.
- Setup (needs **Initialize use-package**)

```
(use-package elfeed :ensure t)
(elfeed-add-feed "https://www.deutschlandfunk.de/informationen-am-morgen-102.xml")
(require 'emms-setup)
(emms-all)
(emms-default-players)
(setq emms-source-file-default-directory "/path/to/your/media/files/")
```

[2022-02-25 Fr]

Save the frame configuration to a register

With **C-x r f LETTER** (**frame-configuration-to-register**) and **C-x r j LETTER** (**jump-to-register**) you can store and restore the the exact layout of buffers in Emacs.

When you use **exwm** that's almost a super-power, because you can prepare several exact window setups for different tasks, but it is also useful in regular emacs usage

This is similar to switching between perspectives in Eclipse, but if you use **exwm**, this encompasses *all programs*.

Use the regular window splitting in Emacs (**C-x 2** for each vertical split, **C-x 3** for each horizontal split), then hit **C-x r f LETTER** to store the exact setup in the letter **LETTER**. Then hack away, move around, split and unify buffers, whatever you need. Then hit **C-x r j LETTER** to restore the saved setup, down to the positions of the cursors in all the files.

*When I have the files in front of me that I need right now and a colleague asks me something, **C-x r f a** stores the window, **C-x 1** switches to single-window layout and we look together. When we're done, **C-x r j a** restores my context and I continue hacking.*

I have not used more than 3 frame-configurations at the same time yet, but even like that this has already been a huge asset.

Aside: You can also use the registers to store content, position in the file, and even the position of all Emacs windows. For details see <https://www.emacswiki.org/emacs/Registers>

[2022-06-18 Sa]

select pgp key to use for mu4e

If recipients cannot decrypt your emails, check the Mml Secure Key Preferences:

M-x customize-variable mml-secure-key-preferences

There you can add their key.

[2022-07-21 Do]

make-window-dedicated: prevent replacing of buffers

When you use commands that open new buffers or can split windows — or if emms opens videos in exwm buffers — it is annoying when emacs replaces some content you always want to see. To fix that, you can use make-window-dedicated:

```
(defun make-window-dedicated (arg)
  "Set the current window as dedicated,
so it will not be chosen as target for other buffers.
With C-u (ARG != 1; some prefix argument)
set window as non-dedicated."
  (interactive "p")
  (set-window-dedicated-p nil (if (= 1 arg) t nil)))
```

Usage:

- Enter the window with the buffer you want to keep visible.
- M-x make-window-dedicated to prevent replacing the buffer.
- C-u M-x make-window-dedicated in a dedicated window to make it non-dedicated.

[2022-08-18 Do]

Create simple packages (tutorial)

Here's a complete and quick to read description for creating and submitting your own Emacs packages. It covers the whole process and shows how to customize the compilation mode:

<https://spin.atomicobject.com/2016/05/27/write-emacs-package/>

LSP and DAP mode (language server and debug adapter)

With language servers and debug adapters, Emacs can be used for languages that require complex IDE support to work efficiently.

See <https://emacs-lsp.github.io/dap-mode/page/configuration/>
and <https://github.com/emacs-lsp/dap-mode>

For Java this does not scale to the source repository at work, but for Typescript it is good enough.

For Javascript [js2-mode](#) is better.

[2022-10-02 So]

Use ido everywhere, except in specific functions

Ido is great to select existing entries, with [ido-cr+](#) even more so, but if I want to create a new one, or just want the last matching folder, it can be annoying. To precisely disable ido (and ido-cr+) there, use M-x customize-variable to change `ido-read-file-name-non-ido` and `ido-cr+-disable-list`. I do that in my ido-preview setup:

Setup (needs [Initialize use-package](#)):

```
(use-package ido-completing-read+ :ensure t :defer 1
  :config
  ;; disable ido-cr+ where it does not fit.
  (add-to-list 'ido-cr+-disable-list 'journal t)
  (add-to-list 'ido-cr+-disable-list 'gnus-mime-save-part t)
  (add-to-list 'ido-cr+-disable-list 'bbdb-read-string)
  :custom
  (ido-cr+-auto-update-blacklist t)
  (ido-cr+-function-whitelist nil)
  (ido-cr+-max-items 30000)
  (ido-cr+-replace-completely nil)
  (ido-ubiquitous-mode t))

(use-package ido-preview ;; no need to ensure: it is part of emacs
  :defer 2
  :config
```



```

(add-hook 'ido-setup-hook
  (lambda()
    (define-key ido-completion-map (kbd "C-M-p") (lookup-key ido-completion-map
      (define-key ido-completion-map (kbd "C-M-n") (lookup-key ido-completion-map
      (define-key ido-completion-map (kbd "C-p") 'ido-preview-backward)
      (define-key ido-completion-map (kbd "C-n") 'ido-preview-forward)))
    ;; disable ido where it does not fit.
    (add-to-list 'ido-read-file-name-non-ido 'journal t)
    (add-to-list 'ido-read-file-name-non-ido 'gnus-mime-save-part t)
    :custom
    (ido-all-frames t)
    (ido-buffer-disable-smart-matches nil)
    (ido-enable-dot-prefix t)
    (ido-enable-flex-matching t)
    (ido-everywhere t)
    (ido-max-work-file-list 10)
    (ido-max-dir-file-cache 20)
    ;; reduce number of prospects to reduce window size changes
    (ido-max-prospects 10)
    (ido-mode (quote both) nil (ido))
    (ido-read-file-name-non-ido
      '(tramp-rename-these-files tramp-rename-files
        journal gnus-mime-save-part))
    (ido-use-filename-at-point (quote guess))
    (ido-use-url-at-point t))

;; Ignore ido save errors; they can block emacs shutdown on disk-full,
;; and the history is not important enough for that.
(defun ido-kill-emacs-hook ()
  (ignore-errors (ido-save-history)))

;; my disable list for ido-cr+:
;; (ido-cr+-disable-list
;; '(read-file-name-internal read-buffer
;;   internal-complete-buffer todo-add-category
;;   gnus-emacs-completing-read gnus-iswitchb-completing-read
;;   grep-read-files magit-builtin-completing-read ess-completing-read
;;   Info-read-node-name tmm-prompt org-tags-completion-function
;;   ffap-read-file-or-url ffap-read-file-or-url-internal
;;   sly-read-symbol-name org-olpath-completing-read bbdb-read-string
;;   journal gnus-mime-save-part)

```

[2022-10-27 Do]

type-break with image-slideshow from workrave using slideview

Show workrave exercises during typing breaks. Requires [workrave](#) installed. This replaces workrave in exwm for me, because workrave tends to lock up the screen (I do not know why).

Setup (needs `Initialize use-package`):

```
;; add demo images to type-break
(use-package slideview :ensure t
  :config
  (add-hook 'image-mode-hook 'slideview-mode)
  (defun type-break-demo-slideview ()
    "Take a typing break with a training slideshow."
    (and (get-buffer "*Slideview*")
         (kill-buffer "*Slideview*"))
    (condition-case ()
      (progn
        (with-temp-buffer
          (rename-buffer "*Slideview*")
          (let* ((files (directory-files
                        "~/ .guix-profile/share/workrave/exercises/" t))
                 (len-files (length files))
                 ;; compensate that random selection of a range
                 ;; start favors later entries.
                 (compensate 5)
                 (random-exercise-index (- (random len-files) compensate))
                 (starting-exercise-index
                  (if (< random-exercise-index compensate)
                      (random (min compensate len-files))
                      random-exercise-index))
                 (exercice (nth starting-exercise-index files)))
            (find-file exercice)))
        (let ((timer (run-with-timer 30 10 'slideview-next-file)))
          ;; Wait for user to come back.
          (read-event)
          (type-break-catch-up-event)
          (cancel-timer timer)))
        (kill-buffer "*Slideview*"))
      (quit
       (read-event)
       (type-break-catch-up-event)
       (and (get-buffer "*Slideview*")
            (kill-buffer "*Slideview*")))))
```

```
(add-to-list 'type-break-demo-functions 'type-break-demo-slideview)
)
```

[2022-12-12 Mo]

find-current-as-root

THIS IS BROKEN FOR ME AT THE MOMENT! (2024)

Error: tramp-get-ls-command: Couldn't find a proper 'ls' command

I often find myself needing to edit a file in /etc/.

To avoid having to remember the tramp syntax for this, I have the command M-x find-current-as-root. This simply re-opens the current file in the current buffer with root permissions.

To get it, just add the following to your ~/.emacs.d/init.el or ~/.emacs:

```
;;; Open files as root - quickly
(defun find-file-root-prefix "/sudoedit::"
  "Tramp root prefix to use.")

(defun find-file-as-root ()
  "Like `ido-find-file', but automatically edit the file with
root-privileges (using tramp/sudo), if the file is not writable by
user."
  (interactive)
  (let ((file (ido-read-file-name "Edit as root: ")))
    (unless (file-writable-p file)
      (setq file (concat find-file-root-prefix file)))
    (find-file file)))
;; or some other keybinding...
;; (global-set-key (kbd "C-x F") 'djcb-find-file-as-root)

(defun find-current-as-root ()
  "Reopen current file as root"
  (interactive)
  (set-visited-file-name (concat find-file-root-prefix (buffer-file-name)))
  (setq buffer-read-only nil))
```

[2022-12-15 Do]

see complete changes with M-x diff-hl-set-reference-rev

When you're working on a patch series you may want to see not just the lines changed compared to the last commit, but the change by your patch series. You can do that in by selecting the last commit before your changes as reference revision:

```
M-x diff-hl-mode  
M-x diff-hl-set-reference-rev RET <revision>
```

Now your buffers fringes will highlight added, removed and changed lines compared to this reference revision.

That can come in very handy when you're creating atomic commits.

Or when you step back into a project after a 2 years break to finish a pull-request.

[2023-01-17 Di]

Org-Agenda with desktop notifications and Outlook calendar ics

This is my emacs OWA calendar setup. Replace `example.com` and `SECRET` by the right values.

Setup (needs `Initialize use-package`):

```
(use-package org-agenda  
  :defer 6  
  :custom  
  (org-agenda-diary-file "~/.emacs.d/diaries/calexport")  
  (calendar-mark-diary-entries-flag t)  
  (calendar-view-diary-initially-flag t)  
  (alert-default-style 'libnotify)  
  (appt-disp-window-function 'alert-for-appt)  
  (org-agenda-include-diary t)  
  (appt-delete-window-function (lambda ()))  
  (org-agenda-clock-consistency-checks  
   (quote  
    (:max-duration "12:00" :min-duration 0 :max-gap "0:05" :gap-ok-around  
     ("4:00" "12:00")  
     :default-face  
     ((:background "DarkRed")  
      (:foreground "white"))  
     :overlap-face nil :gap-face nil :no-end-time-face nil :long-face nil :short-
```

```

(org-agenda-clockreport-parameter-plist (quote (:link t :maxlevel 2 :properties ("E
(org-agenda-start-with-clockreport-mode nil)
:config
;; Rebuild the reminders everytime the agenda is displayed
(add-hook 'org-agenda-finalize-hook (lambda () (org-agenda-to-appt t)))
;; Run once when Emacs starts
(org-agenda-to-appt t)
;; Activate appointments so we get notifications
(appt-activate t)
;; Add calendar, option 3 https://www.ict4g.net/adolfo/notes/emacs/emacs-caldav.ht
(setq diary-location "~/.emacs.d/diaries/")
(add-hook 'diary-list-entries-hook 'diary-include-other-diary-files)
(add-hook 'diary-mark-entries-hook 'diary-mark-included-diary-files)
(setq calendars
  '(("calexport" . "https://example.com/owa/SECRET@example.com/SECRET/calendar.
(defun getcal (url file)
  "Download ics file and add it to file"
  (let ((tmpfile (url-file-local-copy url)))
    (icalendar-import-file tmpfile file)
    ;; fixup %2B (+) from +49 phone numbers ;; TODO: report bug for icalendar-impor
    (let ((unhexed (url-unhex-string (buffer-string))))
      (erase-buffer)
      (insert unhexed))
    ;; preserve previous calendar entries in case of network problems
    (when (string-blank-p (buffer-string)) (undo))
    (kill-buffer (car (last (split-string tmpfile "/"))))))
(defun getcals ()
  "Load a set of ICS calendars into Emacs diary files"
  (interactive)
  (save-mark-and-excursion
    (save-window-excursion
      (with-silent-modifications
        (mapcar #'(lambda (x)
                    (let ((file (concat diary-location (car x)))
                        (url (cdr x)))
                      (message (concat "Loading " url " into " file))
                      (find-file file)
                      ;; (flush-lines "~[& ]") ;; if you import ical as non marking
                      (erase-buffer) ;; to avoid duplicating events
                      (getcal url file)))
                  calendars))))))
(defun appt-reparse-diary-file ()
  "force reparsing the diary file"
  (appt-check t))

```

```
(add-to-list 'midnight-hook 'getcalcs)
(add-to-list 'midnight-hook 'appt-reparse-diary-file))
```

[2023-01-17 Di]

Reduce overhead over ssh X11 forwarding

Popping up dialogs is pretty disturbing when working over SSH X11 forwarding. This disables the dialog boxes and keeps everything within the Emacs frame.

```
(setq use-dialog-box nil
      use-system-tooltips nil)
```

[2024-06-20 Do]

VC-mode enables partial commits for every version tracking system (Git, Mercurial, ...)

Just open the directory with `vc mode`, get the diff, adjust the diff, and commit from there.

```
C-x v d RETURN
= (to show the complete diff)
k on the hunk header to remove the hunk (one part of the diff)
C-c C-s to split a hunk (you can then delete parts)
C-x v v to commit the cleaned diff
```

To undo a change, just reverse the diff with `C-c C-r` and then apply the respective reversed hunk with `C-c C-a`.

Aside: `monky` provides a magit-inspired Mercurial-interface, but with fewer options than magit itself. It may be a good match if you want to stage files for commit instead of removing hunks you don't want to commit (as is done with vc-mode).

[2024-07-19 Fr]

Minimal face adjustments

These are the changes to the default faces that I really need:

```
(custom-set-faces
 ;; show VCS additions more strongly.
 '(diff-hl-insert ((t (:inherit diff-added
                        :background "#ccffcc"
```

```

                :foreground "green4"))))
;; show the active window with color, because I
;; always had to look twice to search the focus.
'(mode-line ((t (:background "light goldenrod"
                :foreground "black"
                :box (:line-width (1 . -1)
                :style released-button)))))
;; show org-mode block start and end more strongly.
'(org-block-begin-line ((t (:inherit org-meta-line
                :background "wheat"))))
'(org-block-end-line ((t (:inherit org-meta-line
                :background "wheat"))))
;; highlight the region more strongly.
'(region ((t (:extend t :background "cornsilk"))))
[2024-10-11 Fr]

```

xref/dumb-jump setup for typescript: mouse and keyboard

Emacs [dumb jump](#) with ripgrep integration provides faster jump-to-definition than `lsp` (language server) solutions and needs no caching that could go stale (looking at you, IntelliJ).

What I want is the single shortcut `C-M-g` for jump-to-definition when I'm on a reference and jump-to-references when I'm on a definition.

Also I want a `CTRL-click` mouse action to jump to the definition or references.

This snippet sets up both, as well as `C-M-p` for jumping backwards.

Setup (needs `Initialize use-package`):

```

(use-package dumb-jump :ensure t :defer 10
  :custom
  (dumb-jump-rg-search-args '())
  :config
  (require 'xref)
  ;; Only use completing-read if you use vertical completion. I use ido, so I do not
  ;; (setq xref-show-definitions-function #'xref-show-definitions-completing-read
  ;;       xref-show-xrefs-function      #'xref-show-definitions-completing-read)
  (defun find-definition-or-references ()
    (interactive)
    (let ((buffer-and-point (cons (buffer-name) (point))))
      (xref-prompt-for-identifier nil))

```



```


        "export public static set test" "export protected abstract
        :not ("public testnot"))
(:type "type" :supports ("ag" "grep" "rg" "git-grep") :language "typescript"
:regex "(export\\s+)?interface\\s+JJJ\\b"
:tests ("interface test" "export interface test")
:not ("interface testnot"))
(:type "type" :supports ("ag" "grep" "rg" "git-grep") :language "typescript"
:regex "(export\\s+)?type\\s+JJJ\\b"
:tests ("type test" "export type test")
:not ("type testnot"))
(:type "enum" :supports ("ag" "grep" "rg" "git-grep") :language "typescript"
:regex "(export\\s+)?enum\\s+JJJ\\b"
:tests ("enum test" "export enum test")
:not ("enum testnot"))))
;; Custom definition for public methods without "public" keyword.
;; Fragile! Requires brace on same line.
;; (:type "function" :supports ("ag" "grep" "rg" "git-grep") :language "typescript"
;; :regex "\\bJJJ\\s*\\|\\(\\.\\*\\|\\{"
;; :tests ("test() {" "test(foo: bar) {"
;; :not ("testnot() {")))
;; understand types (this is non-standard for dumb-jump, but seems to work)
(add-to-list 'dumb-jump-language-contexts '(:type "type" :language "typescript"
:left ": " :right ";\|\\|\\|\\|,")
(add-to-list 'dumb-jump-language-contexts '(:type "type" :language "typescript"
:left "(type =|interface)")
;; use dumb-jump as xref-searcher (no setup and fast)
(add-hook 'xref-backend-functions #'dumb-jump-xref-activate)
;; use C-M-g as shortcut
(define-key global-map (kbd "C-M-g") 'find-definition-or-references)
(define-key dumb-jump-mode-map (kbd "C-M-g") 'find-definition-or-references)
(define-key global-map (kbd "C-M-p") 'xref-pop-marker-stack)
;; setup CTRL-left click handling
(defun jump-to-mouse-position (event &optional promote-to-region)
  (interactive "e\np")
  (mouse-set-point event promote-to-region)
  (find-definition-or-references))
(global-unset-key [C-down-mouse-1])
(define-key global-map [C-mouse-1] 'jump-to-mouse-position))

```

[2024-11-08 Fr]

Browse Unicode Letters

You can browse the letters in the lower unicode planes (nicer than with a unicode list online) by simply calling `M-x describe-char` for a letter and then clicking on the `code point in charset` link.

If you for example have the pointer on the letter  (warning sign) and you use `M-x describe-char`, then you see something like

```
position: 33357 of 33966 (98%), restriction: <33037-33967>, column: 51
character: (displayed as ) (codepoint 9888, #o23240, #x26a0)
charset: unicode-bmp (Unicode Basic Multilingual Plane (U+0000..U+FFFF))
code point in charset: 0x26A0
script: symbol
syntax: w which means: word
category: .:Base
to input: type "C-x 8 RET 26a0" or "C-x 8 RET WARNING SIGN"
```

Click on the `code point in charset: 26A0` and it shows the Unicode characters from 0000 to FFFF.

For example:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 260x | | | | | | | | | | | | | | | | |
| 261x | | | | | | | | | | | | | | | | |
| 262x | | | | | | | | | | | | | | | | |
| 263x | | | | | | | | | | | | | | | | |
| 264x | | | | | | | | | | | | | | | | |
| 265x | | | | | | | | | | | | | | | | |
| 266x | | | | | | | | | | | | | | | | ♪ |
| 267x | | | | | | | | | | | | | | | | |
| 268x | | | | | | | | | | | | | | | | |
| 269x | | | | | | | | | | | | | | | | |
| 26Ax | | | | | | | | | | | | | | | | |
| 26Bx | | | | | | | | | | | | | | | | |
| 26Cx | | | | | | | | | | | | | | | | |
| 26Dx | | | | | | | | | | | | | | | | |
| 26Ex | | | | | | | | | | | | | | | | |
| 26Fx | | | | | | | | | | | | | | | | |

(but aligned as table)

Aside: you can insert any letter by name using `M-x insert-char`.

/2025-03-29 Sa/

Simple Python Setup with eglot/lsp

Setup Emacs for Python development with eglot and file completion with ido. Requires ripgrep and pylsp or similar installed.

Use `C-c p f` to select files in the repository and `C-c p s` to search in repository files.

Open the project files sidebar with `C-x C-n` to see other files.

Setup (needs `Initialize use-package`):

```
;; setup in ~/.emacs.d/init.el
(use-package flycheck-eglot :defer 30 :ensure t)
(use-package flycheck-pycheckers :defer 30 :ensure t)
(use-package flycheck-mypy :defer 30 :ensure t)
(use-package pyvenv :defer 30 :ensure t)
(use-package pyvenv-auto :defer 31 :ensure t)

;; lsp setup
(use-package eglot
  :defer 30
  :ensure t
  :hook ((python-mode . eglot-ensure) ;; start eglot for python
        (python-mode . flyspell-prog-mode) ;; spell checking
        (python-mode . hs-minor-mode) ;; collapse code
        (python-mode . flycheck-mode) ;; linter
        ;; tree-sitter version
        (python-ts-mode . eglot-ensure)
        (python-ts-mode . flyspell-prog-mode)
        (python-ts-mode . hs-minor-mode)
        (python-ts-mode . flycheck-mode)))

;; setup with use-package in ~/.emacs.d/init.el
;; sidebar
(use-package dired-sidebar
  :bind (("C-x C-n" . dired-sidebar-toggle-sidebar))
  :ensure t
  :defer 30
  :commands (dired-sidebar-toggle-sidebar)
  :custom
  (dired-sidebar-subtree-line-prefix "__")
  (dired-sidebar-theme 'vscode)
  (dired-sidebar-width 40) ;; for Python
  (dired-sidebar-use-term-integration t)
  :init
  (add-hook 'dired-sidebar-mode-hook
```

```

        (lambda ()
          (unless (file-remote-p default-directory)
            (auto-revert-mode))))

:config
(push 'toggle-window-split dired-sidebar-toggle-hidden-commands)
(push 'rotate-windows dired-sidebar-toggle-hidden-commands))

;; open files in the project
(use-package projectile :ensure t :defer 1
  :config
  (projectile-mode)
  (define-key projectile-mode-map (kbd "C-c p") 'projectile-command-map)
  (define-key projectile-command-map (kbd "s") 'projectile-ripgrep)
  (define-key projectile-command-map (kbd "f") 'projectile-find-file)
  (add-to-list 'project-find-functions
    (lambda (x) (cons 'transient (projectile-project-root x))))
  :custom
  (projectile-switch-project-action 'projectile-find-file)
  ;; hide output from too long lines
  (ripgrep-arguments '("-M 256")))

(use-package ido
  :config
  (ido-mode 1))

[2025-04-03 Do]

```

reliable auto-revert: disable notify

auto-revert-mode does not reliably update files edited from another user-account. To fix:

M-x customize-variable, then turn auto-revert-use-notify **off**

[2025-05-13 Di]

Emacs shell-mode with full history search

M-x shell provides incremental history search via M-r, then C-r and C-s move through the results.

- M-r: start incremental search (toggle between string and regexp when repeated)
- C-r: previous result

- **C-s**: next result

In short: M-r does what C-r does in bash, except that moving between results is with C-s and C-r.

This resolves the main reason why I couldn't use shell-mode as daily terminal driver.

Setting M-x comint-input-ring-size to 100000 makes it match my HISTSIZE for the shell.

C-u M-x shell opens additional shell buffers.

[2025-07-21 Mo]

Show ansi colors (shell-colors) in any buffer

To display ansi colors in arbitrary buffers, you can use the `ansi-color` package:

```
(require 'ansi-color)
(defun display-ansi-colors ()
  (interactive)
  (ansi-color-apply-on-region (point-min) (point-max)))
```

Just call M-x display-ansi-colors to replace the escapes by the colorized text. For read-only files, you first have to make them editable with C-x C-q.

I also use that to colorize my compilation buffer:

```
(defun colorize-compilation-buffer ()
  "show shell colors in the compilation buffer"
  (read-only-mode -1)
  (ansi-color-apply-on-region compilation-filter-start (point))
  (read-only-mode))
(add-hook 'compilation-filter-hook 'colorize-compilation-buffer)
```

[2025-08-12 Di]

helm-org-rifle as knowledge base

To quickly search through my notes, I use [helm-org-rifle](#). It's fast, convenient, and also searches my agenda-files. It may not be new, but it continues to feel fresh and it just keeps working.

To recover some old note, just use M-x `know` and start typing.

To store some note, just use M-x `org-capture`, then hit k and type or paste it in.

My setup:

```

(defvar knowledge-base-filepath "~/emacs-knowledge-base/know.org"
  "Path to the file to read and write the knowledge base")
(use-package helm-org-rifle :ensure t :defer 10 :after org-agenda
  :config
  (defun know()
    (interactive)
    (with-current-buffer (find-file knowledge-base-filepath)
      (helm-org-rifle)))
  (require 'org-capture) ;; for the templates
  (add-to-list 'org-capture-templates
    `("k" "knowledge base entry" entry
      (file ,knowledge-base-filepath)
      "" :clock-in t :clock-resume t)
    t))

```

[2026-01-15 Do]