Workflow Configuration

Personal configuration for MinEmacs, Bash, Zsha, and other Linux stuff

Abdelhak Bougouffa*

November 12, 2023

Contents

1		repository Notice			 	 	 	 	 		 1 1
2	Intr										1
3	Min	Emacs									2
	3.1	MinEmacs user conf	guration file	s	 	 	 	 	 		 2
		3.1.1 Early configu									
		3.1.2 Modules (mod									
		3.1.3 User configur									
	3.2	General Emacs setti									
		3.2.1 User informa									
		3.2.2 Crypto stuff									3
		3.2.3 Bidirectional									3
		3.2.4 Directories			 	 	 	 	 		 4
		3.2.5 Misc			 	 	 	 	 		 4
		3.2.6 Awqat			 	 	 	 	 		 4
		3.2.7 Projects			 	 	 	 	 		 4
	3.3	Package configuration	n		 	 	 	 	 		 4
		3.3.1 User interfac	e		 	 	 	 	 		 4
		3.3.2 Completion 8	z IDE		 	 	 	 	 		 5
		3.3.3 Natural lang	iages		 	 	 	 	 		 5
	3.4	Applications			 	 	 	 	 		 5
		3.4.1 News feed (e	lfeed)		 	 	 	 	 		 5
		3.4.2 Email (mu4e)			 	 	 	 	 		 E
		3.4.3 Calendar .			 	 	 	 	 		 Ö
		3.4.4 EMPV			 	 	 	 	 		 10
	3.5	Programming			 	 	 	 	 		 10
		3.5.1 Tramp			 	 	 	 	 		 10
		3.5.2 Robot Opera	ting System	(ROS)	 	 	 	 	 		 10
	3.6	Office			 	 	 	 	 		 10
		3.6.1 Org mode .			 	 	 	 	 		 10
	3 7	Machine specific over	rwrites								13

 $^{^{\}ast}\mathrm{a}$ bougouffa at fedora project dot org

CONTENTS

4	Syst	O Company of the comp	13
	4.1	V I	13
		8	13
			13
		4.1.3 Configuring Chrome/Brave	14
5	Git		14
J	5.1		14
	5.2		15
	5.3		17
	5.4		18
	5.5		18
	0.0	1. pacie 1 ma 1. pp 1. 1. apper 1. v.	
6	Con	nmand line tools	19
	6.1	11	19
	6.2	AppImage	21
7	Oh	mar Zah	22
7	7.1	·	22
	7.2		22
	7.3		23
	7.3		23 23
	$7.4 \\ 7.5$		23 24
	7.6	1 "	24
	7.7		24
	1.1	include extra configuration file	21
8	Oh-		24
	8.1		24
	8.2		25
	8.3		26
	8.4		27
	8.5	1 ,	27
	8.6	Include extra configuration file	27
9	Shel	ll configuration	27
J	9.1		27
	9.2		28
	9.3	1 17 1 1	28
	9.4	1	28
	9.5		28
	9.6		29
	9.7	CLI wttrin client	29
	9.8	Minicom	29
	9.9	Rust	29
	9.10	Go	29
	9.11	Clang-format	29
	9.12	CMake	30
	9.13	Node	30
	-		30
	9.15	Other stuff	30
10	Rus	et format	31
τO	itus	o iui iua	ОT

11 eCryptfs 11.1 Unlock and mount script	
12 GDB 12.1 Early init	33 33 33
13 GnuPG	34
14 OCR This	34
15 Slack	35
16 Arch Linux packages	35
17 KDE Plasma	36

1 This repository

This repository (abougouffa/dotfiles) contains my configuration files for **Zsh**, **MinEmacs**, **Vim**, **Alacritty** and other Linux related stuff.

If you want to reuse some of these configurations, you will need to modify some directories and add some user specific information (usernames, passwords...)

1.1 Notice

This is the main configuration file, it contains the literal personal configuration for MinEmacs, and I use it to generate some other Linux configuration files (define aliases, environment variables, user tools, Git configuration...).

For my old deprecated Doom Emacs configuration, see dotfiles/dot_obsolete_configs/dot_doom.d.

2 Intro

I've been using Linux exclusively since 2010, **GNU Emacs** was always installed on my machine, but I didn't discover the **real** Emacs until 2020. In the beginning, I started my Vanilla Emacs configuration from scratch, but after a while, it becomes a mess. As a new Emacs user, I didn't understand the in the beginning how to optimize my configuration and how to do things correctly. I discovered then Spacemacs, which made things much easier, but it was a little slow, and just after, I found the awesome Doom Emacs, which helped me progress and learn more about Emacs and Lisp, but at some point, I faced multiple problems with Doom, so I started my own configuration framework, MinEmacs.

MinEmacs is intended to be a minimal configuration framework. In the beginning, I planned to use only necessary packages. However, it is starting to grow to respond to my daily needs.

```
#!/bin/env bash

# NOTE: This file is generated from "config-literate.org".

# This shell script has been generated from the litterate Org configuration.
# It helps installing required tools (for Arch/Manjaro Linux) and tweak some
# system settings
```

3 MinEmacs

3.1 MinEmacs user configuration files

3.1.1 Early configuration (early-config.el)

```
;;; early-config.el -*- coding: utf-8-unix; lexical-binding: t; -*-
;; NOTE: This file is generated from "config-literate.org".
;; MinEmacs specific stuff
(unless minemacs-verbose
 (setq minemacs-msg-level 2)); print info messages
;; Disable `dashboard'
(setq +dashboard-disable t)
;; Force loading lazy packages immediately, not in idle time
;; (setq minemacs-not-lazy t)
;; Enable full screen at startup
(if-let ((fullscreen (assq 'fullscreen default-frame-alist)))
   (setcdr fullscreen 'fullboth)
  (push '(fullscreen . fullboth) default-frame-alist))
;; Setup a 'debug-on-message' to catch a wired message!
;; (setq debug-on-message "\\(?:error in process filter: \\(?:\\(?:mu4e-warn: \\)?\\[mu4e] No message at

→ point\\)\\)")
;; (setq debug-on-message "Package cl is deprecated")
;; (setenv "MINEMACS_IGNORE_VERSION_CHECK" "1")
```

3.1.2 Modules (modules.el)

```
;;; modules.el -*- coding: utf-8-unix; lexical-binding: t; -*-
;; NOTE: This file is generated from "config-literate.org".
;; This file can be used to override `minemacs-modules'
;; and `minemacs-core-modules'
(setq
;; MinEmacs core modules
minemacs-core-modules
 '(me-splash ; Simple splash screen (inspired by emacs-splash)
  me-keybindings
                 ; general.el, which-key, hydra, ...
  me-evil ; evil, evil-collection, evil-mc, ...
  me-core-ui
                   ; Theme and modeline
  me-completion) ; vertico, marginalia, corfu, cape, consult, ...
 ;; MinEmacs modules
 minemacs-modules
              ; focus, writeroom-mode, emojify, ...
 '(me-ui
             ; yasnippet, unicode-fonts, ligature, ...
; better-jumper, ...
; undo-fu-session, vundo, ...
  me-editor
  me-extra
  me-undo
  me-multi-cursors; iedit, evil-mc, ...
                ; magit, forge, core-review, diff-hl, ...
  me-vc
                 ; project, consult-project-extra, ...
  me-project
                   ; tree-sitter, eglot, editorconfig, ...
  me-prog
  me-checkers
                  ; flymake, flymake-easy, gdb-mi, ...
  me-lsp
                  ; lsp-mode, dap-mode, consult-lsp, ...
  me-debug
                   ; realgud, disaster, ...
  me-emacs-lisp ; parinfer-rust, macrostep, elisp, ...
```

```
me-data
                      ; csv, yaml, toml, json, ...
  me-org
                      ; org, org-modern, ...
 me-notes ; denote, consult-notes, ...
me-email ; mu4e, mu4e-alert, org-msg, ...
me-lifestyle ; awqat, ...
me-docs ; pdf-tools, nov, ...
 me-calendar ; calfw, calfw-org, calfw-ical, ...
me-latex ; tex, auctex, reftex, ...
  me-natural-langs; spell-fu, eglot-ltex, ...
 me-files ; dirvish, dired, vlf, ...
me-tools ; vterm, tldr, docker, systemd, ...
                     ; org-cite, citar, ...
  me-biblio
                     ; Emacs daemon tweaks
; Emacs from terminal
; elfeed, ...
  me-daemon
  me-tty
 me-rss
 me-robot ; Robotics stuff (ros, robot-mode, ...)
me-embedded ; Embedded systems (arduino, openocd, bitbake, ...)
 me-math ; maxima, ess, ...
                       ; OpenSCAD, ...
  me-modeling
 me-workspaces; tabspaces, tab-bar, ...
                     ; frame & window tweaks, ...
 me-window
 me-media
                      ; empv, ...
 me-fun ; xkcd, speed-type, ...
me-binary) ; hexl, decompile (using objdump)...
;; MinEmacs disabled packages
minemacs-disabled-packages
(append
 '(dashboard ein)))
```

3.1.3 User configuration (config.el)

```
;;; config.el -*- coding: utf-8-unix; lexical-binding: t; -*-
;; NOTE: This file is generated from "config-literate.org".
```

3.2 General Emacs settings

3.2.1 User information

3.2.2 Crypto stuff

```
(setq-default
;; Encrypt files to my self by default
epa-file-encrypt-to '("F808A020A3E1AC37"))
```

3.2.3 Bidirectional settings

This combo should speedup opening files:

```
(setq-default
;; Better support for files with long lines
bidi-paragraph-direction 'left-to-right
;; Speeds redisplay, may break paranthesis rendering for bidirectional files
bidi-inhibit-bpa t)
```

3.2.4 Directories

3.2.5 Misc

3.2.6 Awqat

3.2.7 Projects

3.3 Package configuration

3.3.1 User interface

```
Theme & font
(setq minemacs-theme 'doom-one-light); 'apropospriate-light
```

Writing mode

3.3.2 Completion & IDE

LSP Register LSP over Tramp for Python using pyls. The pyls LSP server should be installed on the distant machine for this to work.

```
(with-eval-after-load 'lsp-mode
  (lsp-register-client
   (make-lsp-client
   :new-connection (lsp-tramp-connection "pyls")
   :major-modes '(python-mode python-ts-mode)
   :remote? t
   :server-id 'pyls-remote)))
```

3.3.3 Natural languages

Offline dictionaries Needs sdcv to be installed, needs also *StarDict* dictionaries, you can download some from here and here for french.

Spell-fu

```
(with-eval-after-load 'spell-fu (+spell-fu-register-dictionaries! "en" "fr"))
```

3.4 Applications

3.4.1 News feed (elfeed)

Set RSS news feeds

```
(with-eval-after-load 'elfeed
  (setq elfeed-feeds
        '(("https://arxiv.org/rss/cs.RO" robotics academic)
          ("https://interstices.info/feed" science academic)
          ("https://spectrum.ieee.org/rss/robotics/fulltext" robotics academic)
          ("https://spectrum.ieee.org/rss/aerospace/fulltext" academic aerospace)
          ("https://spectrum.ieee.org/rss/computing/fulltext" academic computing)
          ("https://spectrum.ieee.org/rss/blog/automaton/fulltext" academic automation robotics)
          ("https://www.technologyreview.com/feed" tech science)
          ("https://itsfoss.com/feed" linux foss)
          ("https://lwn.net/headlines/rss" linux foss)
          ("https://linuxhandbook.com/feed" linux foss)
          ("https://www.omgubuntu.co.uk/feed" linux foss)
          ("https://this-week-in-rust.org/rss.xml" rust prog)
          ("https://planet.emacslife.com/atom.xml" emacs prog foss)
          ("https://developers.redhat.com/blog/feed" linux foss))))
```

3.4.2 Email (mu4e)

Configuring mu4e as email client needs three parts:

- Incoming mail configuration IMAP (using mbsync)
- Outgoing mail configuration SMTP (using smtpmail or msmtp)
- Email indexer and viewer (via mu and mu4e)

IMAP (mbsync) You will need to:

- Install mu and isync (sudo pacman -S mu isync)
- Set up a proper configuration file for your accounts at ~/.mbsyncrc
- Run mu init --maildir=~/Maildir --my-address=user@host1 --my-address=user@host2
- Run mbsync -c ~/.mbsyncrc -a
- For sending mails from mu4e, add a ~/.authinfo file, file contains a line in this format machine MAIL.DOMAIN.TLD login USER port 587 password PASSWD
- Encrypt the ~/.authinfo file using GPG gpg -c ~/.authinfo and delete the original unencrypted file.

I use a mbsyncrc file for multi-accounts, with some hacks for Gmail accounts (to rename the [Gmail]/... folders). Here is an explained configuration example.

In the configuration file, there is a parameter named Pass which should be set to the password in plain text. Most of the examples you can find online uses this parameter, but in real life, nobody uses it, it is extremely unsafe to put the password in plain text configuration file. Instead, mbsync configuration file provides the alternative PassCmd parameter, which can be set to an arbitrary shell command which gets the password for you. You can set it for example to call the pass password manager to output the account password, or to bw command (for Bitwarden users). For me, I'm using it with Emacs' ~/.authinfo.gpg, the PassCmd in my configuration uses GPG and awk to decrypt and filter the file content to find the required account's password. I set PassCmd to something like this:

Remember the line format in the ~/.authinfo.gpg file:

```
machine smtp.googlemail.com login username@gmail.com port 587 password PASSWD
```

This PassCmd command above, decrypts the ~/.authinfo.gpg, passes it to awk to search the line containing "machine smtp.googlemail.com login username@gmail.com" and prints the last field (the last field \$NF in the awk command corresponds to the password, as you can see in the line format).

The whole ~/.mbsync file should look like this:

```
# mbsync config file
# GLOBAL OPTIONS
BufferLimit 50mb
                             # Global option: Default buffer size is 10M, too small for modern machines.
Sync All
                             # Channels global: Sync everything "Pull Push New ReNew Delete Flags" (default option)
Create Both
                             # Channels global: Automatically create missing mailboxes on both sides
Expunge Both
                             # Channels global: Delete messages marked for deletion on both sides
CopyArrivalDate yes
                             # Channels global: Propagate arrival time with the messages
# SECTION (IMAP4 Accounts)
IMAPAccount work
                             # IMAP Account name
Host mail.host.ccc
                             # The host to connect to
User user@host.ccc
                             # Login user name
SSLVersions TLSv1.2 TLSv1.1 # Supported SSL versions
# Extract password from encrypted ~/.authinfo.gpg
# File format: "machine <SERVER> login <LOGIN> port <PORT> password <PASSWORD>"
# This uses sed to extract <PASSWORD> from line matching the account's <SERVER>
PassCmd "gpg2 -q --for-your-eyes-only --no-tty --logger-file /dev/null --batch -d ~/.authinfo.gpg | awk '/machine

    smtp.domain.tld/ {print $NF}'"

AuthMechs *
                             # Authentication mechanisms
                             # Protocol (STARTTLS/IMAPS)
SSLType IMAPS
CertificateFile /etc/ssl/certs/ca-certificates.crt
# END OF SECTION
# IMPORTANT NOTE: you need to keep the blank line after each section
```

```
# SECTION (IMAP Stores)
IMAPStore work-remote
                           # Remote storage name
Account work
                           # Associated account
# END OF SECTION
# SECTION (Maildir Stores)
MaildirStore work-local  # Local storage (create directories with mkdir -p ~/Maildir/<ACCOUNT-NAME>)
Path ~/Maildir/work/
                           # The local store path
Inbox ~/Maildir/work/Inbox # Location of the INBOX
SubFolders Verbatim
                          # Download all sub-folders
# END OF SECTION
# Connections specify links between remote and local folders
# they are specified using patterns, which match remote mail
# folders. Some commonly used patters include:
# - "*" to match everything
# - "!DIR" to exclude "DIR"
# - "DIR" to match DIR
# SECTION (Channels)
Channel work
                           # Channel name
Far :work-remote:
                           # Connect remote store
Near: work-local: # to the local one
Patterns "INBOX" "Drafts" "Sent" "Archives/*" "Spam" "Trash"
SyncState *
                           # Save state in near side mailbox file ".mbsyncstate"
# END OF SECTION
# ------
IMAPAccount gmail
Host imap.gmail.com
User user@gmail.com
PassCmd "gpg2 -q --for-your-eyes-only --no-tty --logger-file /dev/null --batch -d ~/.authinfo.gpg | awk '/machine

    smtp.domain.tld/ {print $NF}'"

AuthMechs LOGIN
SSLType IMAPS
CertificateFile /etc/ssl/certs/ca-certificates.crt
IMAPStore gmail-remote
Account gmail
MaildirStore gmail-local
Path ~/Maildir/gmail/
Inbox ~/Maildir/gmail/Inbox
# For Gmail, I like to make multiple channels, one for each remote directory
# this is a trick to rename remote "[Gmail]/mailbox" to "mailbox"
Channel gmail-inbox
Far :gmail-remote:
Near :gmail-local:
Patterns "INBOX"
SyncState *
Channel gmail-trash
Far :gmail-remote:"[Gmail]/Trash"
Near :gmail-local:"Trash"
SyncState *
Channel gmail-drafts
Far :gmail-remote:"[Gmail]/Drafts"
Near :gmail-local:"Drafts"
SyncState *
Channel gmail-sent
```

```
Far :gmail-remote:"[Gmail]/Sent Mail"
Near :gmail-local: "Sent Mail"
SyncState *
Channel gmail-all
Far :gmail-remote:"[Gmail]/All Mail"
Near :gmail-local:"All Mail"
SyncState *
Channel gmail-starred
Far :gmail-remote:"[Gmail]/Starred"
Near :gmail-local:"Starred"
SyncState *
Channel gmail-spam
Far :gmail-remote:"[Gmail]/Spam"
Near :gmail-local:"Spam"
SyncState *
# GROUPS PUT TOGETHER CHANNELS, SO THAT WE CAN INVOKE
# MBSYNC ON A GROUP TO SYNC ALL CHANNELS
# FOR INSTANCE: "mbsync gmail" GETS MAIL FROM
# "gmail-inbox", "gmail-sent", and "gmail-trash"
# SECTION (Groups)
Group gmail
Channel gmail-inbox
Channel gmail-sent
Channel gmail-trash
Channel gmail-drafts
Channel gmail-all
Channel gmail-starred
Channel gmail-spam
# END OF SECTION
```

SMTP (msmtp) I was using the standard smtpmail to send mails; but recently, I'm getting problems when sending mails. I passed a whole day trying to fix mail sending for one of my accounts, at the end of the day, I got a working setup; BUT, sending the first mail always ask me about password! I need to enter the password to be able to send the mail, Emacs asks me then if I want to save it to ~/.authifo.gpg, when I confirm saving it, it got duplicated in the .authinfo.gpg file.

This seems to be a bug; I also found somewhere that smtpmail is buggy, and that msmtp seems to be a good alternative, so now I'm using a msmtp-based setup, and it works like a charm!

For this, we will need an additional configuration file, ~/.msmtprc, I configure it the same way as mbsync, specifying this time SMTP servers instead of IMAP ones. I extract the passwords from ~/.authinfo.gpg using GPG and awk, the same way we did in mbsync's configuration.

The following is a sample file ~/.msmtprc.

```
# Set default values for all following accounts.
defaults
auth
                         on
tls
                         on
tls_starttls
                         /etc/ssl/certs/ca-certificates.crt
tls_trust_file
logfile
                         ~/.msmtp.log
# Gmail
account
                         gmail
                         plain
auth
                         smtp.googlemail.com
host
port
                         587
```

```
from
                         username@gmail.com
user
                         "gpg -q --for-your-eyes-only --no-tty --logger-file /dev/null --batch -d ~/.authinfo.gpg |
passwordeval
→ awk '/machine smtp.googlemail.com login .*@gmail.com/ {print $NF}'"
add_missing_date_header on
## Gmail - aliases
                        alias-account : gmail
account
from
                        alias@mail.com
                        other-alias : gmail
account
                        other.alias@address.org
from
# Work
                        work
account
auth
host
                        smtp.domaine.tld
port
                        587
from
                        username@domaine.tld
user
                        username
                        "gpg -q --for-your-eyes-only --no-tty --logger-file /dev/null --batch -d ~/.authinfo.gpg |
passwordeval
\rightarrow awk '/machine smtp.domaine.tld/ {print $NF}'"
tls_nocertcheck # ignore TLS certificate errors
```

Mail client and indexer (mu and mu4e) I configure my email accounts in a private file in private/mu4e-accounts.el, which will be loaded after this common part:

```
;; To disable auto starting mu4e in background
(setq +mu4e-auto-start nil)
(with-eval-after-load 'mu4e
 ;; Custom files
 (setq mail-personal-alias-file (concat minemacs-config-dir "private/mail-aliases.mailrc")
       mu4e-icalendar-diary-file (concat org-directory "icalendar-diary.org"))
 :: Add a unified inbox shortcut
  (add-to-list
   'mu4e-bookmarks
   '(:name "Unified inbox" :query "maildir:/.*inbox/" :key ?i) t)
  ;; Add shortcut to view spam messages
  (add-to-list
   'mu4e-bookmarks
   '(:name "Spams" :query "maildir:/.*\\(spam\\|junk\\).*/" :key ?s) t)
 ;; The `+mu4e-extras-ignore-spams-query' function is defined in
  ;; `me-mu4e-extras'.
 (with-eval-after-load 'me-mu4e-extras
   ;; Add shortcut to view yesterday's messages
   (add-to-list
     'mu4e-bookmarks
     `(:name "Yesterday's messages" :query ,(+mu4e-extras-ignore-spams-query "date:1d..today") :key ?y) t))
 ;; Load my accounts
 (+load minemacs-config-dir "private/mu4e-accounts.el")
 (+load minemacs-config-dir "private/mu4e-extra-commands.el"))
```

3.4.3 Calendar

```
(with-eval-after-load 'calfw-ical
  (+load minemacs-config-dir "private/calfw-sources.el"))
```

I like to use an MPD powered EMMS, so when I restart Emacs I do not lose my music.

3.5 Programming 3 MINEMACS

3.4.4 EMPV

```
(with-eval-after-load 'empv
   ;; Set the radio channels, you can get streams from https://www.radio-browser.info
   empv-radio-channels
   '("E1-Bahdja FM" . "http://webradio.tda.dz:8001/E1Bahdja_64K.mp3")
("E1-Chaabia" . "https://radio-dzair.net/proxy/chaabia?mp=/stream")
("Quran Radio" . "http://stream.radiojar.com/Otpy1h0kxtzuv")
                                    . "http://stream.radiojar.com/Otpy1h0kxtzuv")
     ("Algeria International" . "https://webradio.tda.dz/Internationale_64K.mp3")
                          . "https://str0.creacast.com/jowradio")
      ("JOW Radio"
                                 . "http://direct.franceinter.fr/live/franceinter-hifi.aac")
      ("France Iter"
     ("France Culture" . "http://direct.franceinfo.fr/live/franceinfo-hifi.aac")
("France Musique" . "http://icecast.radiofrance.fr/francemusique-hifi.aac")
     ("FIP"
                                  . "http://icecast.radiofrance.fr/fip-hifi.aac")
      ("Beur FM"
                                   . "http://broadcast.infomaniak.ch/beurfm-high.aac")
                                    . "http://icecast.skyrock.net/s/natio_mp3_128k"))
   ;; See https://docs.invidious.io/instances/
   empv-invidious-instance "https://invidious.projectsegfau.lt/api/v1"))
```

3.5 Programming

3.5.1 Tramp

```
(with-eval-after-load 'tramp
  (setq
   ;; Do not use a separate history file for tramp sessions (buggy!)
  tramp-histfile-override nil
  ;; Use Bash as a default remote shell
  tramp-default-remote-shell "/bin/bash"
  ;; Use bash for encoding and decoding commands on the local host
  tramp-encoding-shell "/bin/bash"))
```

3.5.2 Robot Operating System (ROS)

```
(with-eval-after-load 'ros
  (setq ros-workspaces
        (list
         (ros-dump-workspace
         :tramp-prefix "/docker:ros@ros-machine:"
          :workspace "~/ros_ws"
         :extends '("/opt/ros/noetic/"))
         (ros-dump-workspace
          :tramp-prefix "/docker:ros@ros-machine:"
         :workspace "~/ros2_ws"
          :extends '("/opt/ros/foxy/"))
         ({\tt ros-dump-workspace}
          :tramp-prefix "/ssh:swd_sk0172.16.96.42:"
          :workspace "~/ros_ws"
          :extends '("/opt/ros/noetic/"))
         (ros-dump-workspace
          :tramp-prefix "/ssh:swd_sk0172.16.96.42:"
          :workspace "~/ros2_ws"
          :extends '("/opt/ros/foxy/")))))
```

3.6 Office

3.6.1 Org mode

Org mode tweaks

3.6 Office 3 MINEMACS

```
(with-eval-after-load 'org
   ;; Let's put our Org files here
   org-directory "~/Dropbox/Org/"
   ;; Do not ask before tangling
   org-confirm-babel-evaluate nil
   ;; The last level which is still exported as a headline
   org-export-headline-levels 5
   ;; Default file for notes (for org-capture)
   org-default-notes-file (concat org-directory "inbox.org")
   +org-inbox-file (concat org-directory "inbox.org")
   +org-projects-file (concat org-directory "projects.org")
   ;; Custom todo keyword faces
   org-todo-keyword-faces
   '(("IDEA" . (:foreground "goldenrod" :weight bold))
     ("NEXT" . (:foreground "IndianRed1" :weight bold))
     ("STRT" . (:foreground "OrangeRed" :weight bold))
     ("WAIT" . (:foreground "coral" :weight bold))
("KILL" . (:foreground "DarkGreen" :weight bold))
     ("PROJ" . (:foreground "LimeGreen" :weight bold))
     ("HOLD" . (:foreground "orange" :weight bold)))
   ;; Custom org-capture templates, see: https://orgmode.org/manual/Capture.html
   org-capture-templates
   (("t" "Todo" entry (file+headline ,+org-inbox-file "Inbox")
      "* TODO %?\n%i\n%a")
     ("i" "Idea" entry (file+headline ,+org-inbox-file "Ideas")
      "* IDEA %?\n%T\n%i\n%a")
     ("p" "Project note" entry (file ,+org-projects-file)
       "* %?\n%T\n%i\n%a")
     ("n" "Note" entry (file+headline ,+org-inbox-file "Notes")
      "* NOTE %?\n%T\n%i\n%a")))
  (setq org-tag-persistent-alist
        '((:startgroup . nil)
          ("home" . ?h)
          ("research" . ?r)
          ("work" . ?w)
(:endgroup . nil)
          (:startgroup . nil)
          ("tool" . ?o)
                        . ?d)
          ("dev"
          ("report"
                       . ?p)
          (:endgroup . nil)
          (:startgroup . nil)
          ("easy"
                      . ?e)
          ("medium"
                       . ?m)
          ("hard"
                        . ?a)
          (:endgroup
                       . nil)
          ("urgent"
                       . ?u)
                        . ?k)
          ("key"
                        . ?b)
          ("bonus"
                       . ?i)
          ("ignore"
          (setq org-tag-faces
        '(("home" . (:foreground "goldenrod" :weight bold))
          ("research" . (:foreground "goldenrod" :weight bold))
          ("work" . (:foreground "goldenrod" :weight bold))
                       . (:foreground "IndianRed1" :weight bold))
          ("tool"
          ("dev"
                       . (:foreground "IndianRed1" :weight bold))
          ("report"
                       . (:foreground "IndianRed1" :weight bold))
                       . (:foreground "red" :weight bold))
. (:foreground "red" :weight bold))
          ("urgent"
          ("key"
                       . (:foreground "red" :weight bold))
. (:foreground "green4" :weight bold))
. (:foreground "orange" :weight bold))
          ("easy"
          ("medium"
```

3.6 Office 3 MINEMACS

```
. (:foreground "red"
        ("hard"
                                                 :weight bold))
        ("bonus"
                    . (:foreground "goldenrod" :weight bold))
                    . (:foreground "Gray"
                                                 :weight bold))
        ("ignore"
        ("noexport" . (:foreground "LimeGreen" :weight bold))))
;; stolen from https://github.com/yohan-pereira/.emacs#babel-config
;; (defun +org-confirm-babel-evaluate (lang body)
    (not (string= lang "scheme"))) ;; Don't ask for scheme
;; (setq org-confirm-babel-evaluate #'+org-confirm-babel-evaluate)
(setq org-agenda-files (list +org-inbox-file
                             +org-projects-file
                              (concat org-directory "gcal-agenda.org"))
      org-agenda-deadline-faces
      '((1.001 . error)
        (1.000 . org-warning)
        (0.500 . org-upcoming-deadline)
        (0.000 . org-upcoming-distant-deadline))
      org-list-demote-modify-bullet
      ("+" . "-")
("-" . "+")
("*" . "+")
        ("1." . "a.")))
;; Needs to make a src_latex{\textsc{text}}?, with this hack you can write [[latex:textsc][Some text]].
(+shutup!
 (org-add-link-type
  "latex" nil
  (lambda (path desc format)
    (cond
     ((eq format 'html)
      (format "<span class=\"%s\">%s</span>" path desc))
     ((eq format 'latex)
      (format "{\\%s{%s}}" path desc))))))
(add-hook
 'org-mode-hook
 (defun +org--time-stamp-setup-h ()
   (setq-local
   time-stamp-active t
   time-stamp-format "%04Y-%02m-%02d"
   time-stamp-start "#\\+lastmod:[ \t]*"
    time-stamp-end "$")))
(add-hook 'before-save-hook #'time-stamp))
```

Org + Hugo

```
(with-eval-after-load 'ox-hugo
  (setq org-hugo-auto-set-lastmod t))
```

$Org + \cancel{E}T_{E}X$

```
(with-eval-after-load 'ox-latex
  (add-to-list 'org-latex-packages-alist '("svgnames" "xcolor")))
```

Denote

```
(setq denote-directory "~/Dropbox/Org/notes/")

(with-eval-after-load 'recentf
  (add-to-list 'recentf-exclude denote-directory))
```

Bibliography

Org-cite

Citar

```
(with-eval-after-load 'citar
  (setq citar-library-paths (ensure-list +biblio-storage-path)
      citar-notes-paths (ensure-list +biblio-notes-path)
      citar-bibliography (ensure-list +biblio-libraries-path)))
```

3.7 Machine specific overwrites

There is always some machine-specific configurations, packages, overwrites, and so on. To keep my configuration generic, I like to have a separate file with machine-specific tweaks (for example, change the Email address on a work machine, etc.).

```
(let ((machine-specific-conf (concat minemacs-config-dir "private/machine-specific.el")))
  (when (file-exists-p machine-specific-conf)
    (+load machine-specific-conf)))
```

4 System configuration

4.1 Mime types

4.1.1 Org mode files

Org mode isn't recognized as its own mime type by default, but that can easily be changed with the following file. For system-wide changes try /usr/share/mime/packages/org.xml.

What's nice is that Papirus now has an icon for text/org. One simply needs to refresh their mime database:

```
update-mime-database ~/.local/share/mime
```

Then set Emacs as the default editor:

```
xdg-mime default emacs-client.desktop text/org
```

4.1.2 Registering org-protocol://

The recommended method of registering a protocol is by registering a desktop application, which seems reasonable.

```
[Desktop Entry]
Name=Emacs Org-Protocol
Exec=emacsclient %u
Icon=/home/hacko/.doom.d/assets/org-mode.svg
```

```
Type=Application
Terminal=false
MimeType=x-scheme-handler/org-protocol
```

To associate org-protocol:// links with the desktop file:

```
xdg-mime default org-protocol.desktop x-scheme-handler/org-protocol
```

4.1.3 Configuring Chrome/Brave

As specified in the official documentation, we would like to invoke the org-protocol:// without confirmation. To do this, we need to add this system-wide configuration.

```
read -p "Do you want to set Chrome/Brave to show the 'Always open ...' checkbox, to be used with the

→ 'org-protocol://' registration? [Y | N]: " INSTALL_CONFIRM

if [[ "$INSTALL_CONFIRM" == "Y" ]]
then
    sudo mkdir -p /etc/opt/chrome/policies/managed/

sudo tee /etc/opt/chrome/policies/managed/external_protocol_dialog.json > /dev/null <<'EOF'
{
    "ExternalProtocolDialogShowAlwaysOpenCheckbox": true
}
EOF

sudo chmod 644 /etc/opt/chrome/policies/managed/external_protocol_dialog.json
fi
```

Then add a bookmarklet in your browser with this code:

```
javascript:location.href =
    'org-protocol://roam-ref?template=r&ref='
    + encodeURIComponent(location.href)
+ '&title='
+ encodeURIComponent(document.title)
+ '&body='
+ encodeURIComponent(window.getSelection())
```

5 Git

5.1 Defaults

```
[pull]
  rebase = true

[init]
  defaultBranch = main # there is no master!

[commit]
  gpgsign = true

[format]
  signoff = true

[color]
  ui = auto

[filter "lfs"]
  clean = git-lfs clean -- %f
  smudge = git-lfs smudge -- %f
```

5.2 Git diffs 5 GIT

```
process = git-lfs filter-process
required = true

# Store passwords in-memory, ask every 24h (default 900s)
[credential]
helper = cache --timeout 86400
```

5.2 Git diffs

Based on this gist and this article.

```
diff=tex
*.bib
                              diff=bibtex
*.{c,h,c++,h++,cc,hh,cpp,hpp} diff=cpp
                              diff=matlab
*.m
                              diff=python
*.py
*.rb
                              diff=ruby
*.php
                              diff=php
*.pl
                              diff=perl
*.{html,xhtml}
                              diff=html
*.f
                              diff=fortran
*.{el,lisp,scm}
                              diff=lisp
                              diff=rstats
*.r
*.texi*
                              diff=texinfo
                              diff=org
*.org
*.rs
                              diff=rust
*.odt
                              diff=odt
*.odp
                              diff=libreoffice
*.ods
                              diff=libreoffice
*.doc
                              diff=doc
                              diff=xls
*.xls
                              diff=ppt
*.ppt
*.docx
                              diff=docx
                              diff=xlsx
*.xlsx
*.pptx
                              diff=pptx
*.rtf
                              diff=rtf
*.{png,jpg,jpeg,gif}
                              diff=exif
*.pdf
                              diff=pdf
                              diff=djvu
*.djvu
*.epub
                              diff=pandoc
                              diff=tika
*.chm
*.mhtml?
                              diff=tika
*.{class,jar}
                              diff=tika
*.{rar,7z,zip,apk}
                              diff=tika
```

Then adding some regular expressions for it to $^{\sim}/.config/git/config$:

```
# ===== TEXT FORMATS ======
[diff "org"]
    xfuncname = "^(\\*+ +.*)$"

[diff "lisp"]
    xfuncname = "^(\\(.*)$"

[diff "rstats"]
    xfuncname = "^([a-zA-z.]+ <- function.*)$"</pre>
```

5.2 Git diffs 5 GIT

```
# Taken from:
 → git.savannah.gnu.org/gitweb/?p=coreutils.git;a=blob;f=.gitattributes;h=c3b2926c78c939d94358cc63d051a70d38cfea5d;hb=HEAD
 xfuncname = "^@node[ \t][ \t]*\\([^,][^,]*\\)"
[diff "rust"]
 xfuncname = "^[ \t]*(pub|)[ \t]*((fn|struct|enum|impl|trait|mod)[^;]*)$"
# ===== BINARY FORMATS =====
  And some tools to view diffs on binary files:
[diff "pdf"]
 binary = true
 textconv = sh -c 'pdftotext -layout "$0" -enc UTF-8 -nopgbrk -q -'
 cachetextconv = true
[diff "djvu"]
 binary = true
 textconv = djvutxt # yay -S djvulibre
 cachetextconv = true
[diff "odt"]
 binary = true
 textconv = odt2txt
# textconv = pandoc --standalone --from=odt --to=plain
 cachetextconv = true
[diff "doc"]
 binary = true
# textconv = wvText
 textconv = catdoc # yay -S catdoc
 cachetextconv = true
[diff "xls"]
 binary = true
# textconv = in2csv
# textconv = xlscat -a UTF-8
# textconv = soffice --headless --convert-to csv
 textconv = xls2csv # yay -S catdoc
 cachetextconv = true
[diff "ppt"]
 binary = true
 textconv = catppt # yay -S catdoc
 cachetextconv = true
[diff "docx"]
 binary = true
# textconv = sh -c 'docx2txt.pl "$0" -'
 textconv = pandoc --standalone --from=docx --to=plain
 cachetextconv = true
[diff "epub"]
 textconv = pandoc --standalone --from=epub --to=plain
 binary = true
 cachetextconv = true
[diff "xlsx"]
 binary = true
 textconv = xlsx2csv # pip install xlsx2csv
# textconv = in2csv
# textconv = soffice --headless --convert-to csv
```

5.3 Extensions 5 GIT

```
cachetextconv = true
[diff "pptx"]
 binary = true
# pip install --user pptx2md (currently not wotking with Python 3.10)
# textconv = sh -c 'pptx2md --disable_image --disable_wmf -i "$0" -o ~/.cache/git/presentation.md >/dev/null && cat
  ~/.cache/git/presentation.md'
# Alternative hack, convert PPTX to PPT, then use the catppt tool
 textconv = sh -c 'soffice --headless --convert-to ppt --outdir /tmp "$0" && TMP_FILENAME=$(basename -- "$0") &&

    catppt "/tmp/${TMP_FILENAME%.*}.ppt"¹

 cachetextconv = true
[diff "libreoffice"]
 binary = true
 textconv = soffice --cat
 cachetextconv = true
[diff "rtf"]
 binary = true
 textconv = unrtf --text # yay -S unrtf
 cachetextconv = true
[diff "tika"]
 binary = true
 textconv = tika --config=~/.local/share/tika/tika-conf.xml --text
 cachetextconv = true
[diff "exif"]
 binary = true
 textconv = exiftool # sudo apt install perl-image-exiftool
```

5.3 Extensions

This tool is taken from https://gist.github.com/nottrobin/5758221. It is attributed to David Underhill. It is a script to permanently delete files/folders from a Git repository. To use it, cd to your repository's root, then run the script with a list of paths you want to delete, e.g., git-prune-files path1 path2

```
#!/usr/bin/env bash
set -o errexit

if [ $# -eq 0 ]; then
        echo "Usage: git prune-files <path1> [<path2> ...]" 1>&2
        exit 0

fi

# make sure we're at the root of git repo
if [ ! -d .git ]; then
        echo "Error: must run this script from the root of a git repository" 1>&2
        exit 1

fi

# remove all paths passed as arguments from the history of the repo
files=$0
git filter-branch --index-filter "git rm -rf --cached --ignore-unmatch $files" HEAD

# remove the temporary history git-filter-branch otherwise leaves behind for a long time
rm -rf .git/refs/original/ && git reflog expire --all && git gc --aggressive --prune
```

Or, add an alias to the command to your Git configuration:

5.4 Aliases 5 GIT

```
[alias]
prune-files = "git-prune-files"
```

5.4 Aliases

Let's have some useful aliases, like the git ignore <lamp> to automatically generate .gitignore patterns for a specific language.

```
[alias]
ignore = "!gi() { curl -sL https://www.gitignore.io/api/$@ ;}; gi"
```

5.5 Apache Tika App wrapper

Apache Tika is a content detection and analysis framework. It detects and extracts metadata and text from over a thousand different file types. We will be using the Tika App in command-line mode to show some meaningful diff information for some binary files.

First, let's add a custom script to run tika-app:

```
#!/bin/sh
APACHE_TIKA_JAR="$HOME/.local/share/tika/tika-app.jar"

if [ -f "${APACHE_TIKA_JAR}" ]
then
   exec java -Dfile.encoding=UTF-8 -jar "${APACHE_TIKA_JAR}" "$@" 2>/dev/null
else
   echo "JAR file not found at ${APACHE_TIKA_JAR}"
fi
```

Add tika's installation instructions to the setup.sh file.

```
update_apache_tika () {
 TIKA_JAR_PATH="$HOME/.local/share/tika"
 if [ ! -d "${TIKA_JAR_PATH}" ]
   mkdir -p "${TIKA_JAR_PATH}"
 fi
 TIKA_BASE_URL=https://archive.apache.org/dist/tika/
 TIKA_JAR_LINK="${TIKA_JAR_PATH}/tika-app.jar"
 echo -n "Checking for new Apache Tika App version..."
 # Get the lastest version
 TIKA_VERSION=$(
   curl -s "${TIKA_BASE_URL}" | # Get the page
   pandoc -f html -t plain | # Convert HTML page to plain text.
   X.X.X/)
   sort -rV | # Sort versions, the newest first
   head -n 1 # Get the first (newest) version
 if [ -z "${TIKA_VERSION}" ]
   echo "Failed, check your internet connection."
   exit 1
 fi
 echo "Lastest version is ${TIKA_VERSION}"
```

```
TIKA_JAR="${TIKA_JAR_PATH}/tika-app-${TIKA_VERSION}.jar"
 TIKA_JAR_URL="${TIKA_BASE_URL}${TIKA_VERSION}/tika-app-${TIKA_VERSION}.jar"
 if [ ! -f "${TIKA_JAR}" ]
 then
   echo "New version available!"
   read -p "Do you want to download Apache Tika App v${TIKA_VERSION}? [Y | N]: " INSTALL_CONFIRM
   if [[ "$INSTALL_CONFIRM" == "Y" ]]
     curl -o "${TIKA_JAR}" "${TIKA_JAR_URL}" && echo "Apache Tika App v${TIKA_VERSION} downloaded successfully"
 else
   echo "Apache Tika App is up-to-date, version ${TIKA_VERSION} already downloaded to '${TIKA_JAR}'"
 # Check the existance of the symbolic link
 if [ -L "${TIKA_JAR_LINK}" ]
   unlink "${TIKA_JAR_LINK}"
 # Create a symbolic link to the installed version
 ln -s "${TIKA_JAR}" "${TIKA_JAR_LINK}"
update_apache_tika;
```

When it detects that Tesseract is installed, Tika App will try to extract text from some file types. For some reason, it tries to use Tesseract with some compressed files like *.bz2, *.apk... etc. I would like to disable this feature by exporting an XML config file which will be used when launching the Tika App (using --config=<tika-config.xml>).

6 Command line tools

6.1 Emacs command-line wrapper

A wrapper around emacsclient:

- Accepting stdin by putting it in a temporary file and immediately opening it.
- Guessing that the tty is a good idea when \$DISPLAY is unset (relevant with SSH sessions, among other things).
- With a whiff of 24-bit color support, sets TERM variable to a terminfo that (probably) announces 24-bit color support.
- Changes GUI emacsclient instances to be non-blocking by default (--no-wait), and instead take a flag to suppress this behavior (-w).

I would use sh, but using arrays for argument manipulation is just too convenient, so I'll raise the requirement to bash. Since arrays are the only 'extra' compared to sh, other shells like ksh etc. should work too.

```
#!/usr/bin/env bash
force_tty=false
force_wait=false
stdin_mode=""
args=()
usage () {
  echo -e "Usage: e [-t] [-m MODE] [OPTIONS] FILE [-]
Emacs client convenience wrapper.
Options:
-h, --help
                    Show this message
-t, -nw, --tty
                   Force terminal mode
-w, --wait
                   Don't supply --no-wait to graphical emacsclient
                    Take stdin (when last argument)
-m MODE, --mode MODE Mode to open stdin with
-mm, --maximized
                     Start Emacs client in maximized window
Run emacsclient --help to see help for the emacsclient."
}
while:
do
 case "$1" in
   -t | -nw | --tty)
     force_tty=true
     shift ;;
    -w | --wait)
     force_wait=true
     shift ;;
    -m | --mode)
     stdin_mode=" ($2-mode)"
     shift 2;;
   -mm | --maximized)
       args+=("--frame-parameters='(fullscreen . maximized)")
       shift ;;
   -h | --help)
     usage
     exit 0 ;;
     set -- "$0" "${1%%=*}" "${1#*=}"
     shift ;;
     [ "$#" = 0 ] && break
     args+=("$1")
     shift ;;
  esac
done
if [ ! "${#args[*]}" = 0 ] && [ "${args[-1]}" = "-" ]
 unset 'args[-1]'
 TMP="$(mktemp /tmp/emacsstdin-XXX)"
 cat > "$TMP"
  args+=(--eval "(let ((b (generate-new-buffer \"*stdin*\"))) (switch-to-buffer b) (insert-file-contents \"$TMP\")
  if [ -z "$DISPLAY" ] || $force_tty
 # detect terminals with sneaky 24-bit support
 if { [ "$COLORTERM" = truecolor ] || [ "$COLORTERM" = 24bit ]; } \
  && [ "$(tput colors 2>/dev/null)" -lt 257 ]
```

```
then
   if echo "$TERM" | grep -q "^\w\+-[0-9]"
     termstub="${TERM%%-*}"
     termstub="${TERM#*-}"
   if infocmp "$termstub-direct" >/dev/null 2>&1
     TERM="$termstub-direct"
    else
     TERM="xterm-direct"
   fi # should be fairly safe
  emacsclient --tty -create-frame --alternate-editor="/usr/bin/emacs" "${args[@]}"
else
  if ! $force_wait
 then
    args+=(--no-wait)
  emacsclient -create-frame --alternate-editor="/usr/bin/emacs" "${args[@]}"
fi
```

Useful aliases Now, to set an alias to use e with magit, and then for maximum laziness we can set aliases for the terminal-forced variants.

```
# -*- mode: sh; -*-

# Aliases to run emacs+magit
alias magit='e --eval "(progn (magit-status) (delete-other-windows))"'
alias magitt='e -t --eval "(progn (magit-status) (delete-other-windows))"'

# Aliases to run emacs+mu4e
alias emu='e --eval "(progn (=mu4e) (delete-other-windows))"'
alias emut='e -t --eval "(progn (=mu4e) (delete-other-windows))"'
```

And this to launch Emacs in terminal mode et, I use this as a default \$EDITOR

```
#!/usr/bin/env bash
e -t "$0"
```

And ev for use with \$VISUAL:

```
#!/usr/bin/env bash
e -w "$@"

export EDITOR="$HOME/.local/bin/et"
export VISUAL="$HOME/.local/bin/ev"
```

6.2 AppImage

Install/update the appimageupdatetool.AppImage tool:

```
update_appimageupdatetool () {
   TOOL_NAME=appimageupdatetool
   MACHINE_ARCH=$(uname -m)
   APPIMAGE_UPDATE_TOOL_PATH="$HOME/.local/bin/${TOOL_NAME}"
```

```
APPIMAGE_UPDATE_TOOL_URL="https://github.com/AppImage/AppImageUpdate/releases/download/continuous/${TOOL_NAME}-${MACHINE_ARC
  if [ -f "${APPIMAGE_UPDATE_TOOL_PATH}" ] && "$APPIMAGE_UPDATE_TOOL_PATH" -j "${APPIMAGE_UPDATE_TOOL_PATH}"

→ 2&>/dev/null

    echo "${TOOL_NAME} already up to date"
  else
    if [ -f "${APPIMAGE_UPDATE_TOOL_PATH}" ]
    then
     echo "Update available, downloading latest ${MACHINE_ARCH} version to ${APPIMAGE_UPDATE_TOOL_PATH}"
     mv "${APPIMAGE_UPDATE_TOOL_PATH}" "${APPIMAGE_UPDATE_TOOL_PATH}.backup"
    else
      echo "${TOOL_NAME} not found, downloading latest ${MACHINE_ARCH} version to ${APPIMAGE_UPDATE_TOOL_PATH}"
    fi
    wget -0 "${APPIMAGE_UPDATE_TOOL_PATH}" "${APPIMAGE_UPDATE_TOOL_URL}" && # 2&>/dev/null
       echo "Downloaded ${TOOL_NAME}-${MACHINE_ARCH}.AppImage" &&
        [ -f "${APPIMAGE_UPDATE_TOOL_PATH}.backup" ] &&
        rm "${APPIMAGE_UPDATE_TOOL_PATH}.backup"
    chmod a+x "${APPIMAGE_UPDATE_TOOL_PATH}"
  fi
update_appimageupdatetool;
```

7 Oh-my-Zsh

7.1 Path

Path to your oh-my-zsh installation.

```
# -*- mode: sh -*-

# When logging via Tramp it will look for patterns to detect if a shell is

# present. Fancy shell prompts aren't taken into account.

if [[ $TERM == "dumb" ]]; then
    unsetopt zle
    PS1='$ '
    return

fi

export ZSH="$HOME/.oh-my-zsh"
```

7.2 Themes and customization

Set name of the theme to load, if set to "random", it will load a random theme each time oh-myzsh is loaded, in which case, to know which specific one was loaded, run: echo \$RANDOM_THEME See github.com/ohmyzsh/ohmyzsh/wiki/Themes.

```
# Typewritten customizations
TYPEWRITTEN_RELATIVE_PATH="adaptive"
TYPEWRITTEN_CURSOR="underscore"

ZSH_THEME="typewritten/typewritten"

# Set list of themes to pick from when loading at random
# Setting this variable when ZSH_THEME=random will cause zsh to load
# a theme from this variable instead of looking in $ZSH/themes/
# If set to an empty array, this variable will have no effect.
# ZSH_THEME_RANDOM_CANDIDATES=( "robbyrussell" "agnoster" )
```

7.3 Behavior 7 OH-MY-ZSH

7.3 Behavior

```
# Uncomment the following line to use case-sensitive completion.
# CASE_SENSITIVE="true"
# Uncomment the following line to use hyphen-insensitive completion.
# Case-sensitive completion must be off. _ and - will be interchangeable.
# HYPHEN_INSENSITIVE="true"
# Uncomment the following line to disable bi-weekly auto-update checks.
# DISABLE_AUTO_UPDATE="true"
# Uncomment the following line to automatically update without prompting.
DISABLE_UPDATE_PROMPT="true"
# Uncomment the following line to change how often to auto-update (in days).
export UPDATE_ZSH_DAYS=3
# Uncomment the following line if pasting URLs and other text is messed up.
# DISABLE_MAGIC_FUNCTIONS="true"
# Uncomment the following line to disable colors in ls.
# DISABLE_LS_COLORS="true"
# Uncomment the following line to disable auto-setting terminal title.
# DISABLE_AUTO_TITLE="true"
# Uncomment the following line to enable command auto-correction.
# ENABLE_CORRECTION="true"
# Uncomment the following line to display red dots whilst waiting for completion.
# COMPLETION_WAITING_DOTS="true"
# Uncomment the following line if you want to disable marking untracked files
# under VCS as dirty. This makes repository status check for large repositories
# much. much faster.
# DISABLE_UNTRACKED_FILES_DIRTY="true"
# Uncomment the following line if you want to change the command execution time
# stamp shown in the history command output.
# You can set one of the optional three formats:
# "mm/dd/yyyy"|"dd.mm.yyyy"|"yyyy-mm-dd"
# or set a custom format using the strftime function format specifications,
# see 'man strftime' for details.
# HIST_STAMPS="mm/dd/yyyy"
```

7.4 Plugins

```
# Would you like to use another custom folder than $ZSH/custom?
ZSH_CUSTOM=$HOME/.config/my_ohmyzsh_customizations

# Which plugins would you like to load?
# Standard plugins can be found in $ZSH/plugins/
# Custom plugins may be added to $ZSH_CUSTOM/plugins/
# Example format: plugins=(rails git textmate ruby lighthouse)
# Add wisely, as too many plugins slow down shell startup.
plugins=(
    zsh-autosuggestions
    zsh-arvigation-tools
    zsh-interactive-cd
    archlinux
    ssh-agent
    sudo
```

```
docker
systemd
tmux
python
pip
rust
repo
cp
rsync
ripgrep
fzf
fd
z
```

7.5 Bootstrap Oh-my-Zsh

```
source "$ZSH/oh-my-zsh.sh"
```

7.6 Aliases

```
# Aliases
alias zshconfig="vim ~/.zshrc"
alias ohmyzsh="ranger $ZSH"
```

7.7 Include extra configuration file

```
# Source extra commands
source "$HOME/.shell_extras"
```

8 Oh-my-Bash

8.1 Path

Path to your oh-my-bash installation.

```
# -*- mode: sh -*-
# When logging via Tramp it will look for patterns to detect if a shell is
# present. Fancy shell prompts aren't taken into account.
if [[ $TERM == "dumb" ]]; then
   unsetopt zle
   PS1='$ '
   return
# Enable the subsequent settings only in interactive sessions
case $- in
  *i*);;
    *) return;;
# Path to your oh-my-bash installation.
export OSH="$HOME/.oh-my-bash"
# Which completions would you like to load? (completions can be found in ~/.oh-my-bash/completions/*)
# Custom completions may be added to ~/.oh-my-bash/custom/completions/
# Example format: completions=(ssh git bundler gem pip pip3)
# Add wisely, as too many completions slow down shell startup.
```

```
completions=(
 git
  composer
  ssh
)
# Which aliases would you like to load? (aliases can be found in ~/.oh-my-bash/aliases/*)
# Custom aliases may be added to ~/.oh-my-bash/custom/aliases/
# Example format: aliases=(vagrant composer git-avh)
# Add wisely, as too many aliases slow down shell startup.
aliases=(
  general
# Which plugins would you like to load? (plugins can be found in ~/.oh-my-bash/plugins/*)
# Custom plugins may be added to ~/.oh-my-bash/custom/plugins/
# Example format: plugins=(rails git textmate ruby lighthouse)
# Add wisely, as too many plugins slow down shell startup.
plugins=(
 git
  bashmarks
# Which plugins would you like to conditionally load? (plugins can be found in ~/.oh-my-bash/plugins/*)
# Custom plugins may be added to ~/.oh-my-bash/custom/plugins/
# Example format:
# if [ "$DISPLAY" ] || [ "$SSH" ]; then
#
      plugins+=(tmux-autoattach)
#
  fi
source "$OSH"/oh-my-bash.sh
# User configuration
# export MANPATH="/usr/local/man:$MANPATH"
# You may need to manually set your language environment
# export LANG=en_US.UTF-8
# Preferred editor for local and remote sessions
# if [[ -n $SSH_CONNECTION ]]; then
#
  export EDITOR='vim'
# else
#
   export EDITOR='mvim'
# fi
# Compilation flags
# export ARCHFLAGS="-arch x86_64"
# export SSH_KEY_PATH="~/.ssh/rsa_id"
# Set personal aliases, overriding those provided by oh-my-bash libs,
# plugins, and themes. Aliases can be placed here, though oh-my-bash
# users are encouraged to define aliases within the OSH_CUSTOM folder.
# For a full list of active aliases, run `alias`.
# Example aliases
# alias bashconfig="mate ~/.bashrc"
# alias ohmybash="mate ~/.oh-my-bash"
```

8.2 Themes and customization

Set name of the theme to load. Optionally, if you set this to "random" it'll load a random theme each time that oh-my-bash is loaded.

8.3 Behavior 8 OH-MY-BASH

OSH_THEME="font"

8.3 Behavior

```
# Uncomment the following line to use case-sensitive completion.
# OMB_CASE_SENSITIVE="true"
# Uncomment the following line to use hyphen-insensitive completion. Case
# sensitive completion must be off. _ and - will be interchangeable.
# OMB_HYPHEN_SENSITIVE="false"
# Uncomment the following line to disable bi-weekly auto-update checks.
# DISABLE_AUTO_UPDATE="true"
# Uncomment the following line to change how often to auto-update (in days).
# export UPDATE_OSH_DAYS=13
# Uncomment the following line to disable colors in ls.
# DISABLE_LS_COLORS="true"
# Uncomment the following line to disable auto-setting terminal title.
# DISABLE_AUTO_TITLE="true"
# Uncomment the following line to enable command auto-correction.
# ENABLE_CORRECTION="true"
# Uncomment the following line to display red dots whilst waiting for completion.
# COMPLETION_WAITING_DOTS="true"
# Uncomment the following line if you want to disable marking untracked files
# under VCS as dirty. This makes repository status check for large repositories
# much. much faster.
# DISABLE_UNTRACKED_FILES_DIRTY="true"
# Uncomment the following line if you don't want the repository to be considered dirty
# if there are untracked files.
# SCM_GIT_DISABLE_UNTRACKED_DIRTY="true"
# Uncomment the following line if you want to completely ignore the presence
# of untracked files in the repository.
# SCM_GIT_IGNORE_UNTRACKED="true'
# Uncomment the following line if you want to change the command execution time
# stamp shown in the history command output. One of the following values can
# be used to specify the timestamp format.
# * 'dd.mm.yyyy'
                   # dd.mm.yyyy + time
# * 'yyyy-mm-dd'
                   # yyyy-mm-dd + time
\# * '[mm/dd/yyyy]' \# [mm/dd/yyyy] + [time] with colors
# * '[dd.mm.yyyy]'
                   # [dd.mm.yyyy] + [time] with colors
# * '[yyyy-mm-dd]'
                   # [yyyy-mm-dd] + [time] with colors
# If not set, the default value is 'yyyy-mm-dd'.
# HIST_STAMPS='yyyy-mm-dd'
# Uncomment the following line if you do not want OMB to overwrite the existing
# aliases by the default OMB aliases defined in lib/*.sh
# OMB_DEFAULT_ALIASES="check"
# Would you like to use another custom folder than $OSH/custom?
# OSH_CUSTOM=/path/to/new-custom-folder
# To disable the uses of "sudo" by oh-my-bash, please set "false" to
# this variable. The default behavior for the empty value is "true".
OMB_USE_SUDO=true
```

```
# To enable/disable display of Python virtualenv and condaenv
# OMB_PROMPT_SHOW_PYTHON_VENV=true # enable
# OMB_PROMPT_SHOW_PYTHON_VENV=false # disable
```

8.4 Plugins

```
# Which completions would you like to load? (completions can be found in ~/.oh-my-bash/completions/*)
# Custom completions may be added to ~/.oh-my-bash/custom/completions/
# Example format: completions=(ssh git bundler gem pip pip3)
# Add wisely, as too many completions slow down shell startup.
completions=(
 git
  composer
  ssh
)
# Which aliases would you like to load? (aliases can be found in ~/.oh-my-bash/aliases/*)
# Custom aliases may be added to ~/.oh-my-bash/custom/aliases/
# Example format: aliases=(vagrant composer git-avh)
# Add wisely, as too many aliases slow down shell startup.
aliases=(
 general
# Which plugins would you like to load? (plugins can be found in ~/.oh-my-bash/plugins/*)
# Custom plugins may be added to ~/.oh-my-bash/custom/plugins/
# Example format: plugins=(rails git textmate ruby lighthouse)
# Add wisely, as too many plugins slow down shell startup.
plugins=(
  git
  bashmarks
)
# Which plugins would you like to conditionally load? (plugins can be found in ~/.oh-my-bash/plugins/*)
# Custom plugins may be added to ~/.oh-my-bash/custom/plugins/
# Example format:
# if [ "$DISPLAY" ] || [ "$SSH" ]; then
#
       plugins+=(tmux-autoattach)
#
```

8.5 Bootstrap Oh-my-Bash

```
source "$OSH/oh-my-bash.sh"
```

8.6 Include extra configuration file

```
# Source extra commands
source "$HOME/.shell_extras"
```

9 Shell configuration

9.1 Misc

```
# User configuration
# export MANPATH="/usr/local/man:$MANPATH"

# You may need to manually set your language environment
# export LANG=en_US.UTF-8
```

```
# Preferred editor for local and remote sessions
# if [[ -n $SSH_CONNECTION ]]; then
# export EDITOR='vim'
# else
# export EDITOR='mvim'
# fi
# Compilation flags
# export ARCHFLAGS="-arch x86_64"
# ssh
# export SSH_KEY_PATH="~/.ssh/rsa_id"
# Set personal aliases, overriding those provided by oh-my-bash libs,
# plugins, and themes. Aliases can be placed here, though oh-my-bash
# users are encouraged to define aliases within the OSH_CUSTOM folder.
# For a full list of active aliases, run `alias`.
# Example aliases
# alias bashconfig="mate ~/.bashrc"
# alias ohmybash="mate ~/.oh-my-bash"
```

9.2 pbcopy and pbpaste

I like to define MacOS-like commands (pbcopy and pbpaste) to copy and paste in terminal (from stdin, to stdout). The pbcopy and pbpaste are defined using either xclip or xsel, you would need to install these tools, otherwise we wouldn't define the aliases.

```
# Define aliases to 'pbcopy' and 'pbpaste'
if command -v xclip &> /dev/null; then
    # Define aliases using xclip
    alias pbcopy='xclip -selection clipboard'
    alias pbpaste='xclip -selection clipboard -o'
elif command -v xsel &> /dev/null; then
    # Define aliases using xsel
    alias pbcopy='xsel --clipboard --input'
    alias pbpaste='xsel --clipboard --output'
fi
```

9.3 netpaste

Define a netpaste command to paste to a Pastebin server.

```
alias netpaste='curl -F file=@- 0x0.st' # OR 'curl -F f:1=<- ix.io '
```

9.4 Sudo GUI!

And then define gsuon and gsuoff aliases to run graphical apps from terminal with root permissions, this requires xhost.

```
# To run GUI apps from terminal with root permissions
if command -v xhost &> /dev/null; then
  alias gsuon='xhost si:localuser:root'
  alias gsuoff='xhost -si:localuser:root'
fi
```

9.5 Neovim

Use Neovim instead of VIM to provide vi and vim commands.

```
# NeoVim
if command -v nvim &> /dev/null; then
alias vim="nvim"
alias vi="nvim"
fi
```

9.6 ESP-IDF

Add some aliases to work with the ESP-IDF framework.

9.7 CLI wttrin client

Define an alias to get weather information for my city:

```
alias wttrin='curl wttr.in/$WTTRIN_CITY'
alias wttrin2='curl v2.wttr.in/$WTTRIN_CITY'
```

9.8 Minicom

Enable Meta key and colors in minicom:

```
export MINICOM='--metakey --color=on'
```

9.9 Rust

Define Rust sources path, and add packages installed from cargo to the PATH.

```
export RUST_SRC_PATH="$HOME/.rustup/toolchains/stable-x86_64-unknown-linux-gnu/lib/rustlib/src/rust/src/"
export PATH="$PATH:$HOME/.cargo/bin"
```

I'm using the AUR package clang-format-static-bin, which provide multiple versions of Clang-format, I use it with some work projects requiring a specific version of Clang-format.

9.10 Go

I don't like Go creating stuff in my home directory, lets move the Go workspace by setting the GOPATH environment variable.

```
# The default is $HOME/go
export GOPATH="$HOME/Projects/go"
```

9.11 Clang-format

```
[[ -d "/opt/clang-format-static" ]] && export PATH="$PATH:/opt/clang-format-static"
```

9.12 CMake

Add my manually built libraries to CMake and PATH.

```
export CMAKE_PREFIX_PATH="$HOME/Softwares/src/install"
export PATH="$PATH:$HOME/Softwares/src/install/bin"
```

9.13 Node

Set NPM installation path to local:

```
NPM_PACKAGES="${HOME}/.npm-packages"

# Export NPM bin path
export PATH="$PATH:$NPM_PACKAGES/bin"

# Preserve MANPATH if you already defined it somewhere in your config.
# Otherwise, fall back to `manpath` so we can inherit from `/etc/manpath`.
export MANPATH="${MANPATH-$(manpath)}:$NPM_PACKAGES/share/man"

# Tell Node about these packages
export NODE_PATH="$NPM_PACKAGES/lib/node_modules:$NODE_PATH"
```

Tell NPM to use this directory for its global package installs by adding this in ~/.npmrc:

```
prefix = ~/.npm-packages
```

Some useful stuff (fzf, opam, Doom Emacs...)

9.14 tmux

I like to use tmux by default, even on my local sessions, I like to start a tmux in a default session on the first time I launch a terminal, and then, attach any other terminal to this default session:

```
# If not running inside Emacs (via vterm/eshell...)
if [[-z "${INSIDE_EMACS}" ]]; then
  if command -v tmux &> /dev/null && [[-z "${TMUX}" ]]; then
    tmux attach -t default || tmux new -s default
  fi
fi
```

9.15 Other stuff

```
# You may need to manually set your language environment
# export LANG=en_US.UTF-8

# Preferred editor for local and remote sessions
# if [[ -n $SSH_CONNECTION ]]; then
# export EDITOR='vim'
# else
# export EDITOR='mvim'
# fi

# Compilation flags
# export ARCHFLAGS="-arch x86_64"

# FZF
[[ -f "$HOME/.fzf.zsh" ]] && source "$HOME/.fzf.zsh"

# OPAM configuration
[[ ! -r "$HOME/.opam/opam-init/init.zsh" ]] || source "$HOME/.opam/opam-init/init.zsh" > /dev/null
```

Define some environment variables.

```
Load my bitwarden-cli session, exported to BW_SESSION.

[[ -f "$HOME/.bitwarden-session" ]] && source "$HOME/.bitwarden-session"

Load private configuration when found:

[[ -f "$HOME/.shell_private" ]] && source "$HOME/.shell_private"
```

10 Rust format

For Rust code base, the file \$HOME/.rustfmt.toml contains the global format settings, I like to set it to:

```
# Rust edition 2018
edition = "2018"
# Use Unix style newlines, with 2 spaces tabulation.
newline_style = "Unix"
tab\_spaces = 2
hard_tabs = false
# Make one line functions in a single line
fn_single_line = true
# Format strings
format_strings = true
# Increase the max line width
max_width = 120
# Merge nested imports
merge_imports = true
# Enum and Struct alignement
enum_discrim_align_threshold = 20
struct_field_align_threshold = 20
# Reorder impl items: type > const > macros > methods.
reorder_impl_items = true
# Comments and documentation formating
wrap_comments = true
normalize_comments = true
normalize_doc_attributes = true
format_code_in_doc_comments = true
report_fixme = "Always"
todo = "Always"
```

11 eCryptfs

11.1 Unlock and mount script

```
#!/bin/sh -e
# This script mounts a user's confidential private folder
#
# Original by Michael Halcrow, IBM
# Extracted to a stand-alone script by Dustin Kirkland <kirkland@ubuntu.com>
```

```
# Modified by: Abdelhak Bougouffa <abougouffa@fedoraproject.org>
# This script:
# * interactively prompts for a user's wrapping passphrase (defaults to their
    login passphrase)
# * checks it for validity
# * unwraps a users mount passphrase with their supplied wrapping passphrase
# * inserts the mount passphrase into the keyring
# * and mounts a user's encrypted private folder
PRIVATE_DIR="Private"
PW ATTEMPTS=3
MESSAGE=`gettext "Enter your login passphrase:"`
if [ -f $HOME/.ecryptfs/wrapping-independent ]; then
  # use a wrapping passphrase different from the login passphrase
 MESSAGE=`gettext "Enter your wrapping passphrase:"`
WRAPPED_PASSPHRASE_FILE="$HOME/.ecryptfs/wrapped-passphrase"
MOUNT_PASSPHRASE_SIG_FILE="$HOME/.ecryptfs/$PRIVATE_DIR.sig"
# First, silently try to perform the mount, which would succeed if the appropriate
# key is available in the keyring
if /sbin/mount.ecryptfs_private >/dev/null 2>&1; then
fi
# Otherwise, interactively prompt for the user's password
if [ -f "$WRAPPED_PASSPHRASE_FILE" -a -f "$MOUNT_PASSPHRASE_SIG_FILE" ]; then
  tries=0
  while [ $tries -lt $PW_ATTEMPTS ]; do
    LOGINPASS=`zenity --password --title "eCryptFS: $MESSAGE"`
    if [ $(wc -1 < "$MOUNT_PASSPHRASE_SIG_FILE") = "1" ]; then</pre>
      # No filename encryption; only insert fek
      if printf "%s\0" "$LOGINPASS" | ecryptfs-unwrap-passphrase "$WRAPPED_PASSPHRASE_FILE" - |
      \rightarrow ecryptfs-add-passphrase -; then
       break
        zenity --error --title "eCryptfs" --text "Error: Your passphrase is incorrect"
        tries=$(($tries + 1))
        continue
     if printf "%s\0" "$LOGINPASS" | ecryptfs-insert-wrapped-passphrase-into-keyring "$WRAPPED_PASSPHRASE_FILE" -;
       break
        zenity --error --title "eCryptfs" --text "Error: Your passphrase is incorrect"
        tries=$(($tries + 1))
        continue
     fi
    fi
  done
  if [ $tries -ge $PW_ATTEMPTS ]; then
   zenity --error --title "eCryptfs" --text "Too many incorrect password attempts, exiting"
    exit 1
  fi
  /sbin/mount.ecryptfs_private
 zenity --error --title "eCryptfs" --text "Encrypted private directory is not setup properly"
 exit 1
```

```
fi

if grep -qs "$HOME/.Private $PWD ecryptfs " /proc/mounts 2>/dev/null; then
   zenity --info --title "eCryptfs" --text "Your private directory has been mounted."
fi

xdg-open "$HOME/Private"
exit 0
```

11.2 Desktop integration

```
[Desktop Entry]
Type=Application
Version=1.0
Name=eCryptfs Unlock Private Directory
Icon=unlock
Exec=/home/hacko/.ecryptfs/ecryptfs-mount-private-gui
Terminal=False
```

12 GDB

12.1 Early init

I like to disable the initial message (containing copyright info and other stuff), the right way to do this is either by starting gdb with -q option, or (since GDB v11 I think), by setting in ~/.gdbearlyinit.

```
# GDB early init file
# Abdelhak Bougouffa (c) 2022

# Disable showing the initial message
set startup-quietly
```

12.2 Init

GDB loads \$HOME/.gdbinit at startup, I like to define some default options in this file, this is a WIP, but it won't evolve too much, as it is recommended to keep the .gdbinit clean and simple. For the moment, it does just enable pretty printing, and defines the c and n commands to wrap continue and next with a post refresh, which is helpful with the annoying TUI when the program outputs to the stdout.

```
# GDB init file
# Abdelhak Bougouffa (c) 2022
# Save history
set history save on
set history filename ~/.gdb_history
set history remove-duplicates 2048
# When debugging my apps, debug information of system libraries
# aren't that important
set debuginfod enabled off
# Set pretty print
set print pretty on
# I hate stepping into system libraries when I'm debugging my
# crappy stuff, so lets add system headers to skipped files
skip pending on
python
import os
```

```
# Add paths here, they will be explored recursivly
LIB_PATHS = ["/usr/include" "/usr/local/include"]
for lib_path in LIB_PATHS:
  for root, dirs, files in os.walk(lib_path):
   for file in files:
      cmd = f"skip file {os.path.join(root, file)}"
      gdb.execute(cmd, True, to_string=True)
end
skip enable
skip pending on
guile
<<gdb-init-guile>>
skip enable
# This fixes the annoying ncurses TUI gliches and saves typing C-1 each time to refresh the screen
define cc
 continue
 refresh
define nn
 next
 refresh
```

13 GnuPG

I add this to my ~/.gnupg/gpg-agent.conf, to set the time-to-live to one day.

```
# Do not ask me about entered passwords for 24h (during the same session)
default-cache-ttl 86400
max-cache-ttl 86400

# As I'm using KDE, use Qt based pinentry tool instead of default GTK+
pinentry-program /usr/bin/pinentry-qt

# Allow pinentry in Emacs minibuffer (combined with epg-pinentry-mode)
allow-loopback-pinentry
allow-emacs-pinentry
```

14 OCR This

This creates a script named ocrthis that can be bound to OS shortcut. When triggered:

- it shows a selection tool to take a partial screenshot,
- it runs tesseract to extract the text,
- and then, it copies it to clipboard.

```
#!/bin/bash

IMG=$(mktemp -u --suffix=".png")
scrot -s "$IMG" -q 100
mogrify -modulate 100,0 -resize 400% "$IMG"
tesseract "$IMG" - -1 eng 2> /dev/null | xsel -ib
```

15 Slack

This script is called at system startup.

```
#!/bin/bash
WEEK_DAY=$(date +%u)
HOUR=$(date +%H)
SLACK=$(which slack)

if [[ "$WEEK_DAY" != "6" ]] && [[ "$WEEK_DAY" != "7" ]] && [[ "$HOUR" -gt 7 ]] && [[ "$HOUR" -lt 18 ]]; then
$SLACK -u %U
else
   echo "It is not work time!"
fi
```

16 Arch Linux packages

Here, we install Arch packages

```
check_and_install_pkg() {
    PKG_NAME="$1"
    if ! pacman -Qiq "${PKG_NAME}" &>/dev/null; then
        echo "Package ${PKG_NAME} is missing, installing it using yay"
        yay -S --noconfirm "${PKG_NAME}"
    fi
}
PKGS_LIST=(
    # System tools
    git repo ripgrep fd gnupg fzf the_silver_searcher xsel xorg-xhost chezmoi
    neovim ecryptfs-utils libvterm bitwarden-cli-bin binutils
    ttf-ibm-plex ttf-fira-code ttf-roboto-mono ttf-overpass ttf-lato ttf-input
    ttf-cascadia-code ttf-jetbrains-mono ttf-fantasque-sans-mono ttc-iosevka
    ttc-iosevka-slab ttc-iosevka-curly ttc-iosevka-curly-slab
    # Programming tools
    ccls cppcheck clang gcc gdb lldb valgrind rr openocd vls vlang rustup
    semgrep-bin
    # Lisp/Scheme
    {\tt sbcl} cmucl clisp chez-scheme {\tt mit}{\tt -scheme} chibi-scheme chicken
    maxima fricas octave scilab-bin graphviz jupyterlab jupyter-notebook r
    # Media
    mpc mpv mpd vlc yt-dlp poppler ffmpegthumbnailer mediainfo imagemagick
    # Email
    mu isync msmtp
    # Documents
    djvulibre catdoc unrtf perl-image-exiftool wkhtmltopdf pandoc hugo inkscape
    # Natural languages
    aspell aspell-en aspell-fr aspell-ar grammalecte language-tool ltex-ls-bin
    # Apps
    brave zotero
for PKG in "${PKGS_LIST[@]}"; do
    check_and_install_pkg "$PKG"
```

17 KDE Plasma

On KDE, there is a good support for HiDPI displays, however, I faced annoying small icons in some contexts (for example, a right click on desktop). This can be fixed by setting PLASMA_USE_QT_SCALING=1 before starting KDE Plasma. KDE sources the files with .sh extension found on ~/.config/plasma-workspace/env, so let's create ours.

export PLASMA_USE_QT_SCALING=1