

# ChongChong He's Emacs dotfile

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## 1. About

This is my Emacs configuration file written in Org mode. It is an attempt to keep my `~/.emacs.d/init.el` file organized and readable, as Emacs configuration could be a life-long practice.

The general structure of this org-file is inspired by [this github repository](#).

## 1.1. If you want to use this dotfile

- Make a backup of your own `~/.emacs.d/`
- Copy `init.org` and `init.el.tangle` to `~/.emacs.d/` and rename `init.el.tangle` to `init.el`
- Open your Emacs. Your Emacs will automatically export `init.org` into `init.el` which overwrites the original `init.el`.

## 1.2. How to update this dotfile

- Edit this file.
- Execute `C-c C-v t`. This will export everything in blocks that start with `#+BEGIN_SRC emacs-lisp` and end with `#+END_SRC` to `init.el`.

## 1.3. Editing tips

- Use `C-c '` to edit a code block in an individual buffer in an individual buffer.
- `lisp<tab>` to insert a `#+BEGIN_SRC emacs-lisp` `#+END_SRC` block.

## 1.4. Resources

Here is a list of resources where I learned to configure Emacs

### 1.4.1. Articles

- [Elisp Programming](#)
- [Emacs on MacOS Catalina 10.15 in 2019-2020](#)
- [Advanced Techniques for Reducing Emacs Startup Time](#)
- Syncing Custom Set Variables: <https://assortedarray.com/posts/my-init-org-setup/>

### 1.4.2. Emacs dotfile examples

- <https://github.com/yanghaoxie/emacs-dotfile>
- [One Dotfile to rule them all!](#)
- dakrone-dotfiles: <https://github.com/dakrone/dakrone-dotfiles/blob/master/emacs.org>
- Juan José García Ripoll: <http://juanjose.garciaripoll.com/blog/my-emacs-windows-configuration/index.html>
- [极简 Emacs 开发环境配置](#)
- <https://hugocisneros.com/org-config/>: very nice

## 1.5. TODO

- what is ERC?
- [Emacs: Next/Previous User Buffer](#)

## 1.6. Start to use this configuration

When this configuration is loaded for the first time, the `init.el` is the file that is loaded. It should look like this:

```
;; This file replaces itself with the actual configuration at first run.

;; We can't tangle without org!
(require 'org)
;; Open the configuration
(find-file (concat user-emacs-directory "init.org"))
;; tangle it
(org-babel-tangle)
;; load it
(load-file (concat user-emacs-directory "init.el"))
;; finally byte-compile it
(byte-compile-file (concat user-emacs-directory "init.el"))
```

It tangles the org-file, so that this file is overwritten with the actual configuration. Afterwards, this is not needed, because we can use `C-c C-v t` to run `org-babel-tangle`, which does the same job.

Alternatively, we can add the following configuration to execute `org-babel-tangle` after changes. I prefer to not enable this and do it manually.

```
;; -*- mode: emacs-lisp -*-

;; (defun tangle-init ()
;;   "If the current buffer is 'init.org' the code-blocks are
;;   tangled, and the tangled file is compiled."
;;   (when (equal (buffer-file-name)
;;                 (expand-file-name (concat user-emacs-directory
;;                                           "init.org"))))
;;     (org-babel-tangle)
;;     (byte-compile-file (concat user-emacs-directory "init.el")))
;;   (add-hook 'after-save-hook 'tangle-init))

;; (let ((prog-mode-hook nil))
;;   (org-babel-tangle)
;;   (byte-compile-file (concat user-emacs-directory "init.el")))
;; (add-hook 'after-save-hook 'tangle-init)
```

(Not in use) The following config is a common optimization to temporarily disable garbage collection during initialization.

```
;; -*- mode: emacs-lisp -*-

(lexical-let ((old-gc-threshold gc-cons-threshold))
  (setq gc-cons-threshold most-positive-fixnum)
  (add-hook 'after-init-hook
    (lambda () (setq gc-cons-threshold old-gc-threshold))))
```

## 1.7. Dot emacs debugging

- Remember to delete `init.elc` as you update `init.el`
- Debugger entered--Lisp error: (void-variable personal-keybindings)
  - (use-package org)

## 2. Basic usage

### Bookmarks

Commands: `bookmark-set`, `helm-bookmarks`

### org-agenda

Shortcuts: `C-c c`: `org-capture`, `C-c a t`: `org-todo`, `C-c a a`: `org-agenda`

## 3. Emacs initialization

### 3.1. Initialization

```
;; Make startup faster by reducing the frequency of garbage
;; collection. The default is 800 kilobytes. Measured in bytes.
(setq gc-cons-threshold 100000000)

(package-initialize)
(add-to-list 'load-path "~/.emacs.d/pkggs")

;; (defvar myPackages
;;   '(better-defaults
;;     ;;ein
;;     elpy
;;     flycheck
;;     ;;spolky ; theme?
;;     ;; py-autopep8
;;   ))
```

### 3.2. Add package sources

```
(unless (assoc-default "melpa" package-archives)
  (add-to-list 'package-archives '("melpa" . "https://melpa.org/packages/") t))
(unless (assoc-default "org" package-archives)
  (add-to-list 'package-archives '("org" . "https://orgmode.org/elpa/") t))
```

Use `M-x package-refresh-contents` to reload the list of packages after adding these for the first time.

### 3.3. Use-package

#### 3.3.1. Usage

To use local packages, use `:ensure nil`, or use `:load-path` keyword. e.g.

```
(use-package si-general
  :ensure nil
  :load-path "~/.emacs.d/lib")
```

#### 3.3.2. Config

```
;; This is only needed once, near the top of the file
(require 'bind-key)
(eval-when-compile
```

```

;; Following line is not needed if use-package.el is in ~/.emacs.d
(add-to-list 'load-path "~/.emacs.d/elpa")
(require 'use-package)

;; (add-to-list 'load-path "~/.emacs.d/elpa")
;; (require 'use-package)

;; (unless (package-installed-p 'use-package)
;;   (package-refresh-contents)
;;   (package-install 'use-package))

(setq use-package-always-ensure t)
(setq use-package-verbose t)

;; (use-package ein)
;; (use-package ein-notebook)
;; (use-package ein-subpackages)
;; (use-package better-defaults)

```

## 4. General configuration

### 4.1. Fundamentals

```

;; remove backup files (e.g. README.md~)
(setq make-backup-files nil)
;; enable line numbers globally
(global-linum-mode t)
;; Shift-arrow to switch windows
(windmove-default-keybindings)
;; (global-unset-key (kbd "C-x C-c"))
;; (global-unset-key (kbd "M-`")) ; not working
(setq default-fill-column 80)
;; Auto revert mode
(global-auto-revert-mode 1)
;; Keep track of loading time
(defconst emacs-start-time (current-time))
;; start server at startup
(server-start)
;; Disable welcome screen
(setq inhibit-startup-screen t)
;; Search only visible
(setq search-invisible nil)
(setq column-number-mode t)
(setq x-select-enable-clipboard t)
;; (desktop-save-mode 1)
;; end file with new line ("\n")
(setq mode-require-final-newline t)
;; always follow symlinks
(setq find-file-visit-truename t)

```

### 4.2. Use CMD key for meta

```

;; Use cmd key for meta
;; https://superuser.com/questions/297259/set-emacs-meta-key-to-be-the-mac-key
;; (setq mac-option-key-is-meta nil)
;;   mac-command-key-is-meta t
;;   mac-command-modifier 'meta
;;   mac-option-modifier 'super)

```

```
;; (setq mac-option-modifier 'super)
(setq mac-option-modifier 'meta)
(setq mac-command-modifier 'super)
```

### 4.3. Reload

```
(defun my/reload-emacs-configuration ()
  (interactive)
  (load-file "~/.emacs.d/init.el"))
```

### 4.4. Column marker at 80

```
(setq-default
  ;; Column Marker at 80
  whitespace-line-column 80
  whitespace-style '(face lines-tail))
(add-hook 'prog-mode-hook #'whitespace-mode)
```

### 4.5. Set encoding

```
;; set encoding
(set-language-environment "utf-8")
(set-default-coding-systems 'utf-8)
;; (set-buffer-file-coding-system 'utf-8-unix)
;; (set-clipboard-coding-system 'utf-8-unix)
;; (set-file-name-coding-system 'utf-8-unix)
;; (set-keyboard-coding-system 'utf-8-unix)
;; (set-next-selection-coding-system 'utf-8-unix)
;; (set-selection-coding-system 'utf-8-unix)
;; (set-terminal-coding-system 'utf-8-unix)
;; (setq locale-coding-system 'utf-8)
(prefer-coding-system 'utf-8)
```

### 4.6. Compile

Define compile-command as make

```
(setq compile-command "make ")
;; (global-set-key (kbd "C-c r") #'recompile)
```

Make the compilation window go away in a few seconds on success (ref:

<https://emacs.stackexchange.com/a/336>)

```
; from enberg on #emacs
(add-hook 'compilation-finish-functions
  (lambda (buf str)
    (if (null (string-match ".*exited abnormally.*" str))
      ;;no errors, make the compilation window go away in a few seconds
      (progn
        (run-at-time
          "2 sec" nil 'delete-windows-on
          (get-buffer-create "*compilation*"))
        (message "No Compilation Errors!")))))
```

Make \*cimpilation\* buffer disappear after done (not working?)

```
(setq special-display-buffer-names
  '("compilation"))
```



```
(setq special-display-function
  (lambda (buffer &optional args)
    (split-window)
    (switch-to-buffer buffer)
    (get-buffer-window buffer 0)))
```

## 4.7. Shared functions

```
(defun no-auto-fill ()
  "Turn off auto-fill-mode."
  (auto-fill-mode -1)
  (setq word-wrap t)
  )
```

## 4.8. Clipboard (not working)

simpleclip (<https://github.com/rolandwalker/simpleclip>)

```
(use-package simpleclip
  :defer t
  :config
  (simpleclip-mode 1))
```

## 4.9. default-text-scale

<https://github.com/purcell/default-text-scale>

```
(use-package default-text-scale
  :defer 2)
```

## 4.10. Makefile mode indentation

```
(add-hook 'BSDmakefile-mode-hook #'(indent-according-to-mode 1))
```

# 5. General tools

## 5.1. Quick open files

```
(global-set-key (kbd "C-c f w") 'isamert/toggle-side-work-org-buffer)
(global-set-key (kbd "C-c f t") 'isamert/toggle-side-work-org-buffer)
(global-set-key (kbd "C-c f j") 'isamert/toggle-side-journal-org-buffer)

(defun isamert/toggle-side-work-org-buffer ()
  "Toggle `bullet.org` in a side buffer for quick note taking. The buffer is
opened in side window so it can't be accidentally removed."
  (interactive)
  (isamert/toggle-side-buffer-with-file "~/Dropbox/orgfiles/work.org"))

(defun isamert/toggle-side-journal-org-buffer ()
  "Toggle `bullet.org` in a side buffer for quick note taking. The buffer is
opened in side window so it can't be accidentally removed."
  (interactive)
  (isamert/toggle-side-buffer-with-file "~/Dropbox/orgfiles/y-journals.org"))

(defun isamert/buffer-visible-p (buffer)
```

```

"Check if given BUFFER is visible or not.  BUFFER is a string representing the
buffer name."
(or (eq buffer (window-buffer (selected-window))) (get-buffer-window
buffer)))

(defun isamert/display-buffer-in-side-window (buffer)
  "Just like `display-buffer-in-side-window' but only takes a BUFFER and rest
of the parameters are for my taste."
  (select-window
   (display-buffer-in-side-window
    buffer
    (list (cons 'side 'right)
          (cons 'slot 0)
          (cons 'window-width 84)
          (cons 'window-parameters (list (cons 'no-delete-other-windows t)
                                           (cons 'no-other-window nil)))))))

(defun isamert/remove-window-with-buffer (the-buffer-name)
  "Remove window containing given THE-BUFFER-NAME."
  (mapc (lambda (window)
          (when (string-equal (buffer-name (window-buffer window)) the-buffer-
name)
            (delete-window window)))
        (window-list (selected-frame))))

(defun isamert/toggle-side-buffer-with-file (file-path)
  "Toggle FILE-PATH in a side buffer. The buffer is opened in side window so it
can't be accidentally removed."
  (interactive)
  (let ((fname (file-name-nondirectory file-path)))
    (if (isamert/buffer-visible-p fname)
        (isamert/remove-window-with-buffer fname)
        (isamert/display-buffer-in-side-window
         (save-window-excursion
          (find-file file-path)
          (current-buffer))))))

```

## 6. evil

Ref: <http://evgeni.io/posts/quick-start-evil-mode/>

```

;; (add-to-list 'load-path "~/.emacs.d/evil")
;; (require 'evil)
;; (evil-mode 1)

;; (use-package evil
;;   :ensure t
;;   :defer .1
;;   :init
;;   (setq evil-want-integration nil) ;; required by evil-collection
;;   (setq evil-want-keybinding nil)
;;   (setq evil-search-module 'evil-search)
;;   (setq evil-vsplits-window-right t) ;; like vim's 'splitright'
;;   (setq evil-split-window-below t) ;; like vim's 'splitbelow'
;;   :config
;;   (evil-mode 1)
;;   (define-key evil-normal-state-map (kbd "<remap> <evil-next-line>")
'evil-next-visual-line)
;;   (define-key evil-normal-state-map (kbd "<remap> <evil-previous-line>")
'evil-previous-visual-line)

```

```

;; ;; Make horizontal movement cross lines
;; (setq-default evil-cross-lines t)
;; (setq key-chord-two-keys-delay 0.4)
;; (key-chord-define evil-insert-state-map "jj" 'evil-normal-state)
;; )

;; DO NOT PUT EVIL INTO USE-PACKAGE because other part of this dotfile
;; relies on it
(require 'evil)
;; (setq evil-want-integration nil) ;; required by evil-collection
;; (setq evil-want-keybinding nil)
(setq evil-search-module 'evil-search)
(setq evil-vsplt-window-right t) ;; like vim's 'splitright'
(setq evil-split-window-below t) ;; like vim's 'splitbelow'
(evil-mode 1)
(define-key evil-normal-state-map (kbd "<remap> <evil-next-line>") 'evil-
next-visual-line)
(define-key evil-normal-state-map (kbd "<remap> <evil-previous-line>") 'evil-
previous-visual-line)
;; Make horizontal movement cross lines
(setq-default evil-cross-lines t)
(setq key-chord-two-keys-delay 0.4)
;; (key-chord-define evil-insert-state-map "jj" 'evil-normal-state)
;; (define-key evil-insert-state-map (kbd "M-v") 'yank)
(define-key evil-insert-state-map (kbd "C-e") 'move-end-of-line)
(define-key evil-insert-state-map (kbd "C-a") 'move-beginning-of-line)

;; (use-package evil-collection
;;   :after evil
;;   :ensure t
;;   :config
;;   (evil-collection-init))

```

Make movement keys work like they should: instead of go to next logical line, pressing 'j' leads to the next visual line. [Ref.](#)

(Disabled) Exit insert mode by pressing j and then j quickly. Reference:

<https://stackoverflow.com/questions/10569165/how-to-map-jj-to-esc-in-emacs-evil-mode>

Treat underscore as part of a word. [Ref.](#)

```

;; For python
(add-hook 'python-mode-hook #'(lambda () (modify-syntax-entry ?_ "w")))
;; julia
(add-hook 'julia-mode-hook #'(lambda () (modify-syntax-entry ?_ "w")))
;; For Javascript
(add-hook 'js2-mode-hook #'(lambda () (modify-syntax-entry ?_ "w")))
;; ;; For ruby
;; (add-hook 'ruby-mode-hook #'(lambda () (modify-syntax-entry ?_ "w")))

```

## 7. org-mode

I use [Org Mode](#) to take notes, write my agenda, and do all sorts of stuff. I have the best writing experience with org-mode over all software.

## 7.1. Usage

### 7.1.1. Key-bindings

Editing	
C-c i	clock-in (and start togg1 timer)
C-c C-p	org-cliplink
C-c '	edit babel code block.
org-agenda	
C-c t	org-todo
C-c c	org-capture
C-c a	org agenda
f/b/.	(without evil-org) move forward/backword/today in agenda view
[ [ or ] ]	(with evil-org) agenda-earlier / agenda-later
latex	
C-p	org-latex-preview
C-M-p	org-fragtog-mode

### 7.1.2. My org files

Here are the Org files I use.

TODO.org	My main TODO file for academics and life
agenda.org	Agenda file
todos.org	Org todo file

### 7.1.3. Reference

- [Org Mode - Organize Your Life In Plain Text!](#)
- org config: <https://hugocisneros.com/org-config/>
- <https://github.com/jzohrab/emacs.d/blob/master/init.el#L31>

- [My Organizational Workflow](#)

## 7.2. Basics

```
;; (use-package org
;;   :pin gnu)
(require 'org)
(setq org-image-actual-width (list 500))
(setq org-hide-emphasis-markers t)
;; startup: showeverything
(setq org-startup-folded nil)
(add-hook 'LaTeX-mode-hook 'flyspell-mode)
;; inline image size
;; (setq org-image-actual-width nil)
(setq org-blank-before-new-entry
      '((heading . t) (plain-list-item . nil)))

(use-package htmlize
  :defer 10
  :load-path "/Users/chongchonghe/dotfiles/emacs/packages/emacs-htmlize")

(defun org-toggle-hide-emphasis-markers ()
  "Toggle org-hide-emphasis-markers"
  (interactive)
  (if org-hide-emphasis-markers
      (setq org-hide-emphasis-markers nil)
      (setq org-hide-emphasis-markers t)))
```

Disable descriptive (hidden) links ([Reference](#)). Disabled. Use C-c C-l to edit a link.

```
;; (setq org-descriptive-links nil)
```

Auto indent mode as default

```
(setq org-startup-indented t)
```

Auto fill? No!

```
;; (add-hook 'org-mode-hook 'turn-on-auto-fill)
(auto-fill-mode -1)
(remove-hook 'text-mode-hook #'turn-on-auto-fill)

(setq outline-blank-line 2)
```

org-show-two-levels

```
(defun org-show-two-levels ()
  (interactive)
  (org-content 2))
(with-eval-after-load 'org
  (define-key org-mode-map (kbd "C-c 2") 'org-show-two-levels))
(defun org-show-three-levels ()
  (interactive)
  (org-content 3))
(with-eval-after-load 'org
  (define-key org-mode-map (kbd "C-c 3") 'org-show-three-levels))
;; Evaluate it after startup
;; (add-hook 'org-mode-hook #'org-show-two-levels)
(add-hook 'org-view-mode-hook '(text-scale-adjust))
```

To execute a function at startup, put the following script at the end of a file

```
;; Local Variables:
```

```
;; eval: (progn (org-show-two-levels) (text-scale-adjust 1))
;; End:
```

## org-cliplink

```
(use-package org-cliplink
  :defer 6
  :bind ("C-c C-p" . 'org-cliplink))
;; (require 'org-cliplink)
;; (define-key org-mode-map (kbd "C-c C-p") 'org-cliplink)
```

## Unknown

```
;; (setq org-modules '(org-tempo))
```

## [org-autolist](#)

```
;; (use-package org-autolist
;;   :config
;;   (add-hook 'org-mode-hook (lambda () (org-autolist-mode))))
;; )
```

## 7.3. Key-bindings

### 7.3.1. Local keys

```
(defun my-org-mode-config ()
  (local-set-key "\M-n" 'outline-next-visible-heading)
  (local-set-key "\M-p" 'outline-previous-visible-heading)
  ;; table
  (local-set-key "\C-\M-w" 'org-table-copy-region)
  (local-set-key "\C-\M-y" 'org-table-paste-rectangle)
  (local-set-key "\C-\M-l" 'org-table-sort-lines)
  ;; display images
  (local-set-key "\M-I" 'org-toggle-iimage-in-org)
  ;; TODOlist
  ;; fix tab
  ;; (local-set-key "\C-y" 'yank)
  (local-set-key "\M-h" 'windmove-left)
  (local-set-key "\C-cl" 'org-store-link)
  (local-set-key "\C-cb" 'org-switchb)
  (local-set-key "\C-cp" 'org-display-inline-images)
  (local-set-key "\M-h" 'org-metaleft)
  (local-set-key "\M-l" 'org-metaright)
  (local-set-key "\C-ce" 'org-html-export-to-html)
  ;; (local-set-key (kbd "s-p") (kbd "C-c C-e h h"))
  (setq-local truncate-lines 'nil)
  ;; (org-indent-mode) ;; not working?
)
(add-hook 'org-mode-hook 'my-org-mode-config)

(with-eval-after-load 'evil-maps
  (define-key evil-normal-state-map (kbd "C-p") 'org-latex-preview)
  (define-key evil-normal-state-map (kbd "C-M-p") 'org-fragtog-mode))
;; (define-key org-mode-map (kbd "C-p") 'org-latex-preview)
```

## Not used:

```
;; https://orgmode.org/manual/Conflicts.html
;; Make windmove work in Org mode:
(add-hook 'org-shiftup-final-hook 'windmove-up)
```

```
(add-hook 'org-shiftright-final-hook 'windmove-right)
(define-key org-mode-map (kbd "M-h") 'windmove-left) ;; org conflicts

;; (evil-define-key 'normal org-mode-map (kbd ",") 'org-insert-structure-
template)
```

### 7.3.2. rename-file-and-buffer

```
;; source: http://steve.yegge.googlepages.com/my-dot-emacs-file
(defun rename-file-and-buffer (new-name)
  "Renames both current buffer and file it's visiting to NEW-NAME."
  (interactive "sNew name: ")
  (let ((name (buffer-name))
        (filename (buffer-file-name)))
    (if (not filename)
        (message "Buffer '%s' is not visiting a file!" name)
        (if (get-buffer new-name)
            (message "A buffer named '%s' already exists!" new-name)
            (progn
              (rename-file filename new-name 1)
              (rename-buffer new-name)
              (set-visited-file-name new-name)
              (set-buffer-modified-p nil)))))))
```

### 7.3.3. evil-org-mode

<https://github.com/Somelauw/evil-org-mode>

```
(use-package evil-org
  :ensure t
  :after org
  :hook (org-mode . (lambda () evil-org-mode))
  :config
  (evil-org-set-key-theme '(textobjects insert navigation additional shift todo
heading))
  (require 'evil-org-agenda)
  (evil-org-agenda-set-keys)
  (setq org-super-agenda-header-map (make-sparse-keymap))
  )

;; 'evil-org-agenda is replaced by the following
;; (define-key org-agenda-mode-map "j" 'evil-next-line)
;; (define-key org-agenda-mode-map "k" 'evil-previous-line)

;; (use-package org-agenda
;;   :bind (:map org-agenda-mode-map
;;     ("j" . org-agenda-next-item)
;;     ("k" . org-agenda-previous-time)))

;; (use-package org-agenda
;;   :config
;;   (define-key org-agenda-mode-map (kbd "j") #'org-agenda-next-item)
;;   (define-key org-agenda-mode-map (kbd "k") #'org-agenda-previous-item))
```

### 7.3.4. org-evil

```
;; (use-package org-evil
```

```
;; :ensure t
;; :after org
;; )
```

## 7.4. Appearance

Set up a font-lock substitution for list markers (I always use “-” for lists, but you can change this if you want) by replacing them with a centered-dot character: ([Ref](#))

```
;; (font-lock-add-keywords
;; 'org-mode
;; ' ("^ *\\([-]\\|\\) "
;;   (0 (progn () (compose-region (match-beginning 1) (match-end 1)
;; "•")))))
```

Proportional font, in different sizes, for the headlines. The fonts listed will be tried in sequence, and the first one found will be used.

Beautify org mode

Org-superstar ([reference](#))

```
;; (use-package org-bullets
;;   :init
;;   (add-hook 'org-mode-hook #'org-bullets-mode)
;;   (setq org-bullets-bullet-list '(" " "□" "▣" " " " " "□"))
;; )
(setq-default org-list-indent-offset 4)
(use-package org-superstar ; supersedes `org-bullets'
  :ensure
  :after org
  :config
  ;; Every non-TODO headline now have no bullet
  (setq org-superstar-headline-bullets-list '("\u200b"))
  (setq org-superstar-leading-bullet "\u200b")
  (setq org-superstar-item-bullet-alist
    '(
      ((?+ . ?+)
        (?* . ?▶)
        (?- . ?•)))
    ;; Enable custom bullets for TODO items
    (setq org-superstar-special-todo-items t)
    (setq org-superstar-todo-bullet-alist
      '(
        ("TODO" "□")
        ("NEXT" "➡")
        ("HOLD" "★")
        ("WAIT" " " )
        ("CXLD" "✕")
        ("DONE" "✔"))
      (org-superstar-restart))
  ;; (setq org-ellipsis "↘")
  ;; (setq org-ellipsis "▼")

  ;; simple version, only change font size
  ;; (custom-set-faces
  ;;   '(org-level-1 ((t (:inherit outline-1 :height 1.75))))
  ;;   '(org-level-2 ((t (:inherit outline-2 :height 1.5))))
  ;;   '(org-level-3 ((t (:inherit outline-3 :height 1.25))))
  ;;   '(org-level-4 ((t (:inherit outline-4 :height 1.1))))
  ;;   '(org-level-5 ((t (:inherit outline-5))))
  ;;   '(org-level-6 ((t (:inherit outline-6))))
  ;;   '(org-level-7 ((t (:inherit outline-7)))))
```



```
;; '(org-document-title ((t (:height 2.0 :underline nil))))
;; )

;; complex version: change font as well
(add-hook 'org-mode-hook 'variable-pitch-mode)
(add-hook 'org-mode-hook 'visual-line-mode)
(with-eval-after-load 'org
  (setq word-wrap t)
  )

;; check (custom-theme-set-faces) in the appearance section

;; (custom-set-faces
;;   ;; '(org-level-1 ((t (:inherit outline-1 :height 1.75))))
;;   ;; '(org-document-title ((t (:height 2.0 :underline nil))))
;;   '(mu4e-view-face ((t (:inherit default :height 1.2))))
;; )

;; (setq org-ellipsis "↪")
```

## 7.5. Embed local video

Adapted from this method: <http://endlessparentheses.com/embedding-youtube-videos-with-org-mode-links.html>. [ [mv:movie.mp4] ] will export a html5 video.

```
(defvar mv-iframe-format
  ;; You may want to change your width and height.
  (concat "<video"
    " height=\"500\""
    " style=\"display:block; margin: 0 auto;\" controls>"
    "<source"
    " src=\"%s\""
    " type=\"video/mp4\""
    "<figcaption> \"%s\" </figcaption> "
    "</video>"))

(org-add-link-type
  "mv"
  (lambda (handle)
    (browse-url
      (concat "https://www.youtube.com/embed/"
        handle)))
  (lambda (path desc backend)
    (cl-case backend
      (html (format mv-iframe-format
        path (or desc "")))
      (latex (format "\\href{%s}{%s}"
        path (or desc "video")))))
```

## Embed audio

```
(defvar audio-iframe-format
  ;; You may want to change your width and height.
  (concat "<iframe"
    " width=\"600\""
    " height=\"60\""
    " style=\"display:block; margin: 0\""
    " src=\"%s\""
    "</iframe>"))

(org-add-link-type
```

```
"audio"
(lambda (handle)
  (browse-url
   (concat "https://www.youtube.com/embed/"
           handle)))
(lambda (path desc backend)
  (cl-case backend
    (html (format audio-iframe-format
                  path (or desc "")))
    (latex (format "\\href{%s}{%s}"
                  path (or desc "audio")))))
```

## Other unknown config

```
;; <tab> for 'indent-for-tab-command'
;; (evil-define-key 'insert org-mode-map (kbd "C-t") #'indent-for-tab-
command)

;; load shared .el followed by Emacs specific config
;; (load-file "~/.my-elips/org.el")

;; (require 'org-mu4e)
```

## 7.6. org babel

To suppress "risky local variable..." <https://emacs.stackexchange.com/questions/21575/mark-a-local-variable-safe-for-any-value>

```
;; allow remembering risky variables
(put 'org-babel-python-command 'safe-local-variable
     (lambda (x) t))
```

Ref: <https://www.juliabloggers.com/julia-with-emacs-org-mode/>

```
;; (require 'ess-site)
(setq inferior-julia-program-name
"/Applications/Julia-1.5.app/Contents/Resources/julia/bin/julia")
(org-babel-do-load-languages
 'org-babel-load-languages
 '( (C . t)
    (julia . t)
    (shell . t)
    (python . t)
    (ipython . t)
    ))

(setq
 org-export-babel-evaluate nil
 org-confirm-python-evaluate nil
 org-confirm-babel-evaluate nil
 org-confirm-C++-evaluate nil
 )
```

Display errors and warnings in an org-mode code block. [Ref.](#)

```
(defvar org-babel-eval-verbose t
  "A non-nil value makes `org-babel-eval' display")

(defun org-babel-eval (cmd body)
  "Run CMD on BODY.
If CMD succeeds then return its results, otherwise display
```

```

STDERR with `org-babel-eval-error-notify'."
  (let ((err-buff (get-buffer-create " *Org-Babel Error*")) exit-code)
    (with-current-buffer err-buff (erase-buffer))
    (with-temp-buffer
      (insert body)
      (setq exit-code
        (org-babel--shell-command-on-region
         (point-min) (point-max) cmd err-buff))
      (if (or (not (numberp exit-code)) (> exit-code 0)
              (and org-babel-eval-verbose (> (buffer-size err-buff) 0))) ;
          new condition
          (progn
            (with-current-buffer err-buff
              (org-babel-eval-error-notify exit-code (buffer-string)))
            nil)
            (buffer-string))))))

(setq org-babel-eval-verbose t)

```

## Indentation

```
(setq org-src-preserve-indentation t)
```

ob-async: <https://github.com/astahlman/ob-async>

```
(use-package ob-async)
```

ob-ipython: <https://github.com/gregsexton/ob-ipython>

```
(use-package ob-ipython)
```

## 7.7. org-todo and org-agenda

### 7.7.1. Config

```

(evil-define-key 'normal org-mode-map (kbd "t") 'org-todo)
(evil-define-key 'normal org-mode-map (kbd "C-t") 'org-todo-list)
(evil-define-key 'normal org-mode-map (kbd "C-t") 'org-todo-list)
(define-key evil-normal-state-map (kbd "C-a") 'org-agenda)
(setq org-directory "~/Dropbox/orgfiles")

(with-eval-after-load 'org
  ;; (setq org-directory "/Users/chongchonghe/Dropbox/orgfiles")
  (setq org-agenda-files '("~/Dropbox/orgfiles/work.org"
                           "~/Dropbox/orgfiles/z-life.org"
                           "~/Dropbox/orgfiles/y-journals.org"
                           "~/Dropbox/orgfiles/done.org"
                           "~/Dropbox/orgfiles/journal/"
                           ))
  ;; (setq org-agenda-files '("~/Dropbox/orgfiles"))
  ;; (setq org-agenda-files
  ;;       "~/Dropbox/orgfiles/agenda.org")
  (setq org-default-notes-file "~/Dropbox/orgfiles/work.org")
  (setq org-agenda-confirm-kill t)
  ;; open agenda in current window
  (setq org-agenda-window-setup (quote current-window))
  )

(defun my/buffer-face-mode-variable ()
  "Set font to a variable width (proportional) fonts in current buffer"
  (interactive)

```

```

(setq buffer-face-mode-face '(:family "Roboto Slab"
                                :height 180
                                :width normal))

(buffer-face-mode))

(defun my/style-org-agenda()
  ;; (my/buffer-face-mode-variable)
  (set-face-attribute 'org-agenda-date nil :height 1.1)
  (set-face-attribute 'org-agenda-date-today nil :height 1.1 :slant 'italic)
  (set-face-attribute 'org-agenda-date-weekend nil :height 1.1))

(add-hook 'org-agenda-mode-hook 'my/style-org-agenda)

(setq org-agenda-breadcrumbs-separator " > "
      ;; org-agenda-current-time-string "   now"
      org-agenda-time-grid '( (weekly today require-timed)
                              (800 1000 1200 1400 1600 1800 2000)
                              "....." ".....")
      org-agenda-prefix-format '( (agenda . " %i %-10:c%?-16t%-4e% s")
                                   (todo . " %i %-10:c")
                                   (tags . " %i %-10:c")
                                   (search . " %i %-10:c"))
  )

(setq org-agenda-format-date (lambda (date) (concat "\n" (make-string (window-
width) 9472)
                                                                "\n"
                                                                (org-agenda-format-date-
aligned date))))
(setq org-cycle-separator-lines 2)

```

### A week view spanning the current day

```

(setq org-agenda-span 7
      org-agenda-start-on-weekday nil
      ;; org-agenda-start-day "-3d"
      )

```

### Not used

```

;; ; ;; org-agenda
;; (use-package org-projectile
;;   :bind (("C-c n p" . org-projectile-project-todo-completing-read)
;;         ;; ("C-c c" . org-capture)
;;         ;; ("C-c a" . org-agenda)
;;   )
;;   :config
;;   (progn
;;     (setq org-projectile-projects-file "~/Dropbox/orgfiles/tasks.org")
;;     (setq org-agenda-files (append org-agenda-files (org-projectile-todo-
files)))
;;     (push (org-projectile-project-todo-entry) org-capture-templates))
;;   :ensure t)

```

## 7.7.2. org-super-agenda

<https://github.com/alphapapa/org-super-agenda>

Check examples of configuration [here](#).

```

(use-package org-super-agenda

```

```

:defer 2
:config
(org-super-agenda-mode)
)

(setq org-super-agenda-groups
  '(
    ;; (:name "    Calendar" :time-grid t)
    (:name "Today" ; Optionally specify section name
      :time-grid t ; Items that appear on the time grid
      :todo "TODO") ; Items that have this TODO keyword
    (:name "△ Overdue!" :deadline past)
    (:name "△ Overdue!" :scheduled past)
    (:name "    Important" :priority "A")
    (:name "Optional" :priority "D" :order 90)
    (:auto-category t)))

;; (let ((org-super-agenda-groups
;;       '(:auto-category t)))
;;   (org-agenda-list))

```

### 7.7.3. org-journal

```

(use-package org-journal
  :ensure t
  :defer t
  :bind
  ("s-j" . org-journal-new-entry)
  ("s-s" . org-journal-new-scheduled-entry)
  ("s-n" . org-journal-open-next-entry)
  ("s-p" . org-journal-open-previous-entry)
  :init
  ;; Change default prefix key; needs to be set before loading org-journal
  (setq
    org-journal-prefix-key "M-g "
    org-journal-enable-agenda-integration t)
  :config
  (setq org-journal-dir (concat org-directory "/journal")
        org-journal-file-type 'weekly
        org-journal-file-format "%Y%m%d.org"
        org-journal-date-format "%A, %Y-%m-%d"
        ))

```

### 7.7.4. Todo and Priority

To set the priority of the current headline, do C-c , , or S-UP / S\_DOWN.

```

(setq org-default-priority ?A)
(setq org-highest-priority ?A)
(setq org-lowest-priority ?D)
;;set colours for priorities
(setq org-priority-faces '((?A . (:foreground "#FF0000" :weight bold))
  (?B . (:foreground "#FF9815" :weight bold))
  (?C . (:foreground "#68DF40"))
  (?D . (:foreground "#11D3FF"))))
;;Different bullets
(setq org-todo-keywords
  '((sequence "TODO(t!)" "NEXT(n!)" "DOIN(o!)" "WAIT(w!)" "FLUP(f!)"
"REFI(r!)" "|" "e!" "SCHE(s!)" "CXLD(c!)" "DONE(d!)" )

```

```

org-todo-keyword-faces
'(("TODO" . (:foreground "magenta" :weight bold))
("DOIN" . (:foreground "blue"))
("FLUP" . (:foreground "orange"))
("REFI" . (:foreground "#A52A2A"))
;; ("CANCELLED" . (:foreground "white" :background "#4d4d4d" :weight
bold))
("CXLD" . (:foreground "gray"))
("NEXT" . "#008080")
("DONE" . "#333"))
org-agenda-skip-scheduled-if-done t
org-agenda-skip-deadline-if-done t
)

(defun my-org-set-dark-todo-faces ()
  (setq org-todo-keyword-faces
    '(("TODO" . org-warning)
      ("DOIN" . (:foreground "yellow"))
      ("FLUP" . (:foreground "magenta"))
      ("REFI" . (:foreground "#A52A2A"))
      ;; ("CANCELLED" . (:foreground "white" :background "#4d4d4d" :weight
bold))
      ("CXLD" . (:foreground "gray"))
      ("NEXT" . "#008080")
      ("DONE" . "#333"))))

(defun my-org-set-light-todo-faces ()
  (setq org-todo-keyword-faces
    ;; '("TODO" . org-warning)
    ;; '("TODO" . (:foreground "purple"))
    '(("DOIN" . (:foreground "orange"))
      ("FLUP" . (:foreground "magenta"))
      ("REFI" . (:foreground "#A52A2A"))
      ;; ("CANCELLED" . (:foreground "white" :background "#4d4d4d" :weight
bold))
      ("CXLD" . (:foreground "gray"))
      ("NEXT" . "#008080")
      ("DONE" . "#333"))))

```

### 7.7.5. Org capture

My sketch notes: Notability - 2021 Sketchbook pg 2.

References: [https://www.youtube.com/watch?v=KdcXu\\_RdKI0](https://www.youtube.com/watch?v=KdcXu_RdKI0)

Templates:

```

(setq org-capture-templates
  '(("t" ; hotkey
    "Todo list item" ; name
    entry ; type
    ;; heading type and title
    (file+heading org-default-notes-file "Tasks")
    "* TODO %?\n %i\n %a") ; template
  ))

```

Generally, use %u/U (inactive timestamp, [time]) instead of %t/T (active timestamp, <time>), because I don't want the creation of a todo item in the agenda. Use %a for annotation.

My configuration:

```
(with-eval-after-load 'org
  (setq org-capture-templates
    '(("t" "Todo" entry (file+olp "" "Todos")
      "* TODO [%^{Priority?|A|B|C|D}] %?\nSCHEDULED: %^t %u\n\n\n"
:empty-lines-after 1 :empty-lines-before 1)
    ("s" "Scheduled" entry (file+olp "" "Todos")
      "* [#A] %^{Title}\nSCHEDULED: %^t\n%u\n%?\n\n\n" :empty-lines-before
1 :empty-lines-after 1)
    ("l" "Life" entry (file+olp "~/Dropbox/orgfiles/z-life.org" "Todos")
      "* TODO [%^{Priority?|A|B|C|D}] %?\nSCHEDULED: %^t %u\n\n\n"
:empty-lines-before 1 :empty-lines-after 1)
    ("j" "Journal" entry (file+olp "~/Dropbox/orgfiles/y-journals.org"
"2021")
      "*** %?\n\n" :empty-lines-before 1 :empty-lines-after 1)
    ("o" "Doing" entry (file+olp "" "Todos")
      "* DOIN [%^{Priority?|A|B|C|D}] %?\n %u\n\n" :empty-lines-before 1
:empty-lines-after 1)
    ("a" "Todo with link" entry (file+olp "" "Todos")
      "* TODO [%^{Priority?|A|B|C|D}] %?\n %U\n %a\n\n" :empty-lines-
before 1 :empty-lines-after 1)
    ;; ("w" "Work task" entry (file+headline "" "Todos")
    ;;   "* TODO [#A] %?\n %U\n %a\n\n" :empty-lines-before 1)
    ("n" "Notes" entry (file+olp "" "General Notes")
      "* REFI %? :NOTE:\n%U\n\n" :empty-lines-before 1 :empty-lines-after
1)
    ("m" "Meeting" entry (file+olp "" "Meetings")
      "* REFI Meeting with %? :MEETING:\n%U\n\n" :empty-lines-before 1
:empty-lines-after 1)
    ("i" "Ideas" entry (file+olp "" "Ideas")
      "* %?\n %u\n\n" :empty-lines-before 1 :empty-lines-after 1)
    ("s" "Scheduled" entry (file+olp "" "Todos")
      "* [#A] %^{Title}\nSCHEDULED: %^t\n%u\n%?\n\n\n" :empty-lines-before 1
:empty-lines-after 1)
    ("e" "Event" entry (file+olp "" "Todos")
      "* %^{This is a?|TODO |NEXT |FLUP |DOIN |SCHE |REFI}%^{Title}\n
SCHEDULED: %^t\n%t\n%?")
    ("f" "Followup" entry (file+olp "" "Followups")
      "* FLUP [#B] %?\n %U\n %a\n\n" :empty-lines-before 1 :empty-lines-
after 1)
    ;; ("w" "Work" entry (file+headline "" "Work")
    ;;   "* DOIN [#A] %? :WORK:\n%U\n\n" :empty-lines-before 1)
    ;; ("g" "General todo" entry (file+headline
"/Users/chongchonghe/tasks.org" "Todos")
    ;;   "* TODO [#B] %?\n %a" :empty-lines 1)
    )
  ))
```

### 7.7.6. Refile

Ref: <https://blog.aaronbieber.com/2017/03/19/organizing-notes-with-refile.html>

```
(setq org-refile-targets '(((("~/Dropbox/orgfiles/work.org"
                             "~/Dropbox/orgfiles/z-life.org"
                             "~/Dropbox/orgfiles/y-journals.org")
                           :maxlevel . 2)))
```

### 7.7.7. Exporting to LaTeX

No used. TODO

```
;; Exporting to LaTeX and PDF, formatting
;; http://pragmaticemacs.com/emacs/org-mode-basics-v-exporting-your-notes/
(with-eval-after-load 'ox-latex
  (add-to-list 'org-latex-classes
    '("bjmarticle"
      "\\documentclass{article}
\\usepackage[utf8]{inputenc}
\\usepackage[T1]{fontenc}
\\usepackage{graphicx}
\\usepackage{longtable}
\\usepackage{hyperref}
\\usepackage{natbib}
\\usepackage{amssymb}
\\usepackage{amsmath}
\\usepackage{geometry}
\\geometry{a4paper,margin=0.5in,marginparsep=7pt, marginparwidth=.6in}"
      ("\\section{%s}" . "\\section*{%s}")
      ("\\subsection{%s}" . "\\subsection*{%s}")
      ("\\subsubsection{%s}" . "\\subsubsection*{%s}")
      ("\\paragraph{%s}" . "\\paragraph*{%s}")
      ("\\subparagraph{%s}" . "\\subparagraph*{%s}")))))
```

## 7.8. org-present

```
(setq org-present-text-scale 2)

(eval-after-load "org-present"
  ' (progn
    (add-hook 'org-present-mode-hook
      (lambda ()
        (org-present-big)
        (org-display-inline-images)
        (org-present-hide-cursor)
        (org-present-read-only)
        ;; (toggle-frame-fullscreen)
      ))
    (add-hook 'org-present-mode-quit-hook
      (lambda ()
        (org-present-small)
        (org-remove-inline-images)
        (org-present-show-cursor)
        (org-present-read-write)
        ;; (toggle-frame-fullscreen)
      )))
```

## 7.9. org-toggl

How to setup? Check the [org-toggl](#) github repository for instructions. Basically, add the following code to your init.el, where the toggl-auth-token is copied from your toggl account.

Usage:

'C-c i' then 'C-c o' (re-mapped) to clock in then clock out, which starts a toggl timer. This is enabled by [org-toggl](#). Note that 'C-c o' won't work. It won't stop the timer.

```
;; (with-eval-after-load 'org
;;   (use-package org-toggl
;;     :init
;;     (setq toggl-auth-token "ce3e8fc3922edda6986a6e729509338f"))
```



```

;; (setq org-toggl-inherit-toggl-properties t)
;; :load-path "/Users/chongchonghe/dotfiles/emacs/packages"
;; :config
;; (toggl-get-projects)
;; (org-toggl-integration-mode)
;; ;; remove clock-out since it failed at stopping toggl timer
;; (remove-hook 'org-clock-out-hook #'org-toggl-clock-out)
;; ;; bind C-c i to clock-in then clock-out
;; (define-key org-mode-map (kbd "C-c i")
;;   (lambda () (interactive) (org-clock-in) (sit-for 2) (org-clock-out)))
;; )
;; )

(use-package org-toggl
  :after org
  :defer 15
  :init
  (setq toggl-auth-token "ce3e8fc3922edda6986a6e729509338f")
  (setq org-toggl-inherit-toggl-properties t)
  (setq toggl-default-project "Research")
  :load-path "/Users/chongchonghe/dotfiles/emacs/packages"
  :config
  (toggl-get-projects)
  (org-toggl-integration-mode)
  (define-key org-mode-map (kbd "C-c I") 'toggl-select-default-project)

  ;; remove clock-out since it failed at stopping toggl timer
  (remove-hook 'org-clock-out-hook #'org-toggl-clock-out)
  ;; bind C-c i to clock-in then clock-out
  (define-key org-mode-map (kbd "C-c i")
    (lambda () (interactive) (org-clock-in) (sit-for 5) (org-clock-out)))

  ;; This is the original setup. Need to invoke clock-in and clock-out to
  ;; start and stop a projection
  ;; (add-hook 'org-clock-out-hook #'org-toggl-clock-out)
  ;; (define-key org-mode-map (kbd "C-c i") 'org-clock-in)
  ;; (define-key org-mode-map (kbd "C-c o") 'org-clock-out)

  )

```

## 7.10. org file apps

```

(setq org-file-apps
  '(("\\.docx\\\\" . default)
    (\\.mm\\\\" . default)
    (\\.x?html?\\\\" . default)
    (\\.pdf\\\\" . default)
    (\\.md\\\\" . default)
    (\\.png\\\\" . default)
    (auto-mode . emacs)))

```

## 7.11. exec-path-from-shell

```

(use-package exec-path-from-shell
  :ensure t
  :config
  (when (memq window-system '(mac ns x))
    (exec-path-from-shell-initialize)))

```

## 7.12. org latex preview

```
(setq org-format-latex-options (plist-put org-format-latex-options :scale 1.5))
```

## 7.13. org export

```
;; (use-package ox-md)
(setq org-export-backends '(ascii html md icalendar latex odt))

(defun my-org-html-postamble (plist)
  (concat "<p>Author: Chong-Chong He</p>"
    (format "<p>Last updated: %s</p>" (format-time-string "%Y-%b-%d"))
    "<a
href='https://www.astro.umd.edu/~chongchong/'>www.astro.umd.edu/~chongchong/</a>"
    ))
(setq org-html-postamble 'my-org-html-postamble)

;; (setq org-export-html-postamble-format
;;       '("en" "<p class=\"author\">Author: %a (%e)</p><p
class=\"date\">Last Updated %d.</p>"))

;; (setq org-html-postamble-format
;;       '("en" "<p class=\"author\">Author: %a (%e)</p>
;; Last updated: <p class=\"date\">Date: %d</p>
;; <p class=\"creator\">Generated by %c</p>
;; <p class=\"xhtml-validation\">%v</p>
;; ")))
```

### Remove validate

```
(setq org-html-validation-link nil)
```

### Set postamble

```
(defun my-website-html-postamble (options)
  (concat "<hr>"
    (if (and (plist-get options ':keywords) (not (string= (plist-get options ':keywords) "")))
      (format "<p>Keywords: %s</p>" (plist-get options ':keywords))
      "")
    (format "<p class=\"date\">Modified: %s</p>" (format-time-string "%Y-%m-%d %H:%M:%S"))
    (format "<p>Copyright (c) %s %s</p>"
      (car (split-string (car (plist-get options ':date)) "-")) ;; TODO: get from custom document option
      (car (plist-get options ':author)))
    (format "<p>%s</p>" (plist-get options ':creator))))
```

## 7.14. Publishing

Ref:

- Basic: [Publishing Org-mode files to HTML](#)
- [极简 Emacs 开发环境配置](#): org-publish

## 7.14.1. From publish.el

### Config

```
(require 'ox-publish)

(global-hl-line-mode 1)
(setq org-src-fontify-natively t)
(add-to-list 'load-path "/Users/chongchonghe/dotfiles/emacs/packages/emacs-
htmlize")
(require 'htmlize)

;; (setq org-html-postamble nil)
(setq org-html-postamble
  (concat "<p>Author: %a</p>"
          "<p>%d</p>"
          "<p><a href='https://www.astro.umd.edu/~chongchong/'>"
          "www.astro.umd.edu/~chongchong/</a></p>"))

;; sitemap function
(defun @-org-publish-org-sitemap (title list)
  "Sitemap generation function."
  (concat (format "#+TITLE: %s\n" title)
          ;; "\n#+SETUPFILE: ../style/default.setup\n"
          "\n#+SETUPFILE: ~/dotfiles/org-styles/simple_inline.theme\n"
          "#+OPTIONS: toc:nil\n"
          (org-list-to-subtree list)
          "\n"
          ))

(setq org-publish-project-alist
  '(("body"
    ;; generic
    :base-directory "."
    :base-extension "org"
    :publishing-directory "../public"
    :recursive t
    :language en
    ;; html
    :publishing-function org-html-publish-to-html
    ;; sitemap
    :auto-sitemap t
    :sitemap-filename "index.org"
    :sitemap-title "Index"
    ;; :sitemap-sort-files anti-chronologically
    ;; :sitemap-file-entry-format "%d - %t"
    ;; :sitemap-function my-website-sitemap-function
    ;; :sitemap-function org-publish-org-sitemap
    :sitemap-function @-org-publish-org-sitemap
    ;; :html-home/up-format "<div> <a accesskey='h' href='index.html'> UP
</a> | <a accesskey='H' href='index.html'> HOME </a> </div>"
  )
  ("css"
    :base-directory "../style/"
    :base-extension "css\\|js"
    :publishing-directory "../public/css"
    :publishing-function org-publish-attachment
    :recursive t)
  ("attach"
    :base-directory "../attach/"
    ;; :base-extension "png\\|jpg\\|ico"
```

```

:base-extension "png\\|jpg\\|ico\\|svg"
:publishing-directory "../public/attach"
:publishing-function org-publish-attachment
:recursive t)
("all" :components ("body" "css" "attach"))))

(setq org-publish-project-alist
  '(("org"
    :base-directory "~/Documents/org/"
    :publishing-directory "~/Documents/publish/"
    :section-numbers nil
    :table-of-contents nil
    :publishing-function org-html-publish-to-html
    ;; :publishing-function 'org-publish-org-to-html
    :style "<link rel=\"stylesheet\"
          href=\"../style/style.css\"
          type=\"text/css\"/>"))))

```

sitemap:

```

(defun my-website-sitemap-function (project &optional sitemap-filename)
  "Custom sitemap generator that inserts additional options."
  (let ((buffer (org-publish-org-sitemap project sitemap-filename)))
    (with-current-buffer buffer
      (insert "\n#+SETUPFILE: ../style/default.setup")
      (save-buffer))))

```

## 7.14.2. Other

org-plus-contrib:

```

(require 'ox-extra)
(ox-extras-activate '(ignore-headlines))
;; (use-package ox-extra
;;   :config
;;   (ox-extras-activate '(ignore-headlines))
;; )

```

## 7.15. org-ref

I haven't make it work yet. For now, use cite:citekey to cite a paper, although it won't render properly in HTML output.

Ref:

- <https://github.com/jkitchin/org-ref>
- Manual: <https://github.com/jkitchin/org-ref/blob/master/org-ref.org>
- Quick guide: [https://www.reddit.com/r/orgmode/comments/5shz5o/orgref\\_introduction/](https://www.reddit.com/r/orgmode/comments/5shz5o/orgref_introduction/)
- Author guide: <https://kitchingroup.cheme.cmu.edu/blog/2014/05/13/Using-org-ref-for-citations-and-references/>

```

(setq
  org-ref-bibliography-notes "~/Academics/org-ref-notes.org"
  org-ref-default-bibliography '("~/folders-and-files/BIB_HE.bib")
  org-ref-pdf-directory "~/Academics/Papers/"
)
(setq bibtex-completion-bibliography '("~/folders-and-files/BIB_HE.bib"
                                       "~/folders-and-files/Books.bib")

```

```

    bibtex-completion-library-path "~/Academics/Papers/"
    bibtex-completion-notes-path "~/Dropbox/orgfiles/org-ref-notes.org"
  )

;; (use-package org-ref
;;   :init
;;   (setq bibtex-completion-bibliography '("~/folders-and-files/BIB_HE.bib"
;;                                           "~/folders-and-files/Books.bib")
;;   bibtex-completion-library-path "~/Academics/Papers/"
;;   bibtex-completion-notes-path "~/Dropbox/orgfiles/org-ref-notes.org"
;;   )
;; )

;; (use-package citeproc)
;; Install org-contrib
(use-package org-contrib)

;; Install org
(use-package org
  :config
  (setq org-latex-pdf-process '("latexmk -pdf -outdir=%o %f"))
  (setq org-export-with-smart-quotes t)

  ;; export citations
  (require 'ox-bibtex)

  ;; manage citations
  (require 'org-bibtex-extras)

  ;; ignore headline but include content when exporting
  (require 'ox-extra)
  (ox-extras-activate '(ignore-headlines))

  :custom (org-startup-indented t)
  :bind (:map org-mode-map
    (<f12> . org-bibtex-yank)))

```

## 7.16. plain-org-wiki

Usage:

- `plain-org-wiki name` to open a wiki page from `~/org/wiki/org` or create a new one.
- `plain-org-academic name` to open a academic page from `~/org/astronomy/org`.

Installation:

- Downloaded from github repo: <https://github.com/alraban/org-recoll>. Modified. DO NOT OVERWRITE.
- Stackoverflow page: <https://stackoverflow.com/a/26675657/4635427>

Modifications to the source code:

- Defined `plain-org-academic` similar to `plain-org-wiki`. It calls the following definitions:
  - `plain-org-academic-directory`

- plain-org-academic-extra-dirs
- plain-org-academic-extra-files
- plain-org-academic-files
- plain-org-academic-find-file

```
(use-package plain-org-wiki
  :ensure t
  :load-path "/Users/chongchonghe/dotfiles/emacs/packages/plain-org-wiki/"
  :config
  (setq plain-org-wiki-directory "~/org/wiki/org")
  (setq plain-org-academic-directory "~/org/astronomy/org")
  (setq plain-org-wiki-extra-dirs '("~/org/astronomy/org"))
  (global-set-key (kbd "C-M-w") 'plain-org-wiki))
```

## 7.17. Link to a Mail message

A link that opens a Mail message on macOS. The link should be in the following format:

```
[[message:<message_id@domain.com>][Apple Mail Link]]
```

```
(org-add-link-type "message"
  (lambda (id)
    (shell-command
     ;; (concat "open -a mail.app message:" id)))
    (concat "open message:" id))))
```

Source: <https://emacs.stackexchange.com/a/46028/26582>. Original answer applied url-hexify-string to id: (url-hexify-string id).

## 7.18. org-fancy-priorities

```
(use-package org-fancy-priorities
  :diminish
  :ensure t
  :hook (org-mode . org-fancy-priorities-mode)
  :config
  (setq org-fancy-priorities-list '("A" "B" "C" "D" "E")))
```

## 7.19. org-reveal

```
(use-package ox-reveal)
(setq org-reveal-root "/Users/chongchonghe/local/reveal.js-master")
```

## 7.20. org preview

org-preview-html

```
(use-package org-preview-html)
```

skewer-mode

```
(use-package skewer-mode)
```

impatient-mode

```
(use-package impatient-mode)
```

## 7.21. org-hugo

```
(use-package ox-hugo
  :ensure t ;Auto-install the package from Melpa
  :pin melpa ;`package-archives' should already have ("melpa" .
"https://melpa.org/packages/")
  :after ox)
```

## 7.22. ox-gfm

```
(use-package ox-gfm)
(eval-after-load "org"
  '(require 'ox-gfm nil t))
```

## 7.23. liveorg

```
;; (add-to-list 'load-path (expand-file-name "~/.emacs.d/emacs-liveorg"))
;; (require 'liveorg)
(use-package liveorg
  :defer 5
  :load-path "~/.emacs.d/emacs-liveorg"
  :config
  (setq liveorg-browser "Safari.app")
  (define-key org-mode-map "\C-cE" 'liveorg-preview)
)
```

## 7.24. org-inline-pdf

To enable inline PDF preview in Org buffers. Source: <https://github.com/shg/org-inline-pdf.el>

```
(use-package org-inline-pdf
  :ensure org
  :defer 5
  :mode ("\\.org\\\"" . org-mode)
  :config
  (add-hook 'org-mode-hook #'org-inline-pdf-mode))
```

## 7.25. LibreOffice

```
;; This setup is tested on Emacs 24.3 & Emacs 24.4 on Linux/OSX
;; org v7 bundled with Emacs 24.3
(setq org-export-odt-preferred-output-format "pdf")
;; org v8 bundled with Emacs 24.4
(setq org-odt-preferred-output-format "pdf")
;; BTW, you can assign "pdf" in above variables if you prefer PDF format
;; "doc" for word document

;; Only OSX need below setup
(defun my-setup-odt-org-convert-process ()
  (interactive)
  (let ((cmd "/Applications/LibreOffice.app/Contents/MacOS/soffice"))
    (when (and (eq system-type 'darwin) (file-exists-p cmd))
      ;; org v7
      (setq org-export-odt-convert-processes '(("LibreOffice"
"/Applications/LibreOffice.app/Contents/MacOS/soffice --headless --convert-to
%f%x --outdir %d %i"))))
      ;; org v8
      (setq org-odt-convert-processes '(("LibreOffice"
```

```
"/Applications/LibreOffice.app/Contents/MacOS/soffice --headless --convert-to
%f%x --outdir %d %i"))))
))
(my-setup-odt-org-convert-process)
```

## 8. yasnippet

The default snippets are located in `~/.emacs.d/elpa/yasnippet-0.12.2/snippets`. My own snippet files are located in `~/dotfiles/emacs/snippets`. To add more snippets for auto-completion, add snippets files into that folder.

### 8.1. Usage

TAB	hippie-expand: expand template at point
M-x yas-visit-snippet-file	yas-expand: expand template at point
M-/ (spacemacs only)	Edit snippet files for current mode

### 8.2. Available snippets

<b>org-mode</b>	
lisp	<code>#+begin_src emacs-lisp stuff</code>
img_	<code>&lt;img src=... stuff</code>
<b>python-mode</b>	
np	<code>import numpy as np</code>
plt	<code>import matplotlib.pyplot as plt</code>
ifm	<code>if __name__ == '__main__':</code>

### 8.3. Config

```
(setq-default mode-require-final-newline nil)

(use-package yasnippet
  :diminish yas-minor-mode
  ;; :init (yas-global-mode)
  :ensure t
  :config
  (setq yas-snippet-dirs '("~/dotfiles/emacs/snippets/yasnippet-snippets-
20210105.1346/snippets" "~/dotfiles/emacs/snippets/personal"))
  (yas-global-mode 1)
  ;; (add-to-list #'yas-snippet-dirs "~/dotfiles/emacs/snippets/yasnippet-
```



```
snippets-20210105.1346/snippets")
;; (add-to-list #'yas-snippet-dirs "~/dotfiles/emacs/snippets/personal")
(yas-reload-all)
;; (progn
;;   (add-hook 'hippie-expand-try-functions-list 'yas-hippie-try-expand)
;;   ;; (setq yas-key-syntaxes '("w_" "w_." "^ "))
;;   (setq yas-installed-snippets-dir "~/dotfiles/emacs/snippets")
;;   (setq yas-expand-only-for-last-commands nil))
)
```

Not used

```
(defun my-yasnippet-config ()
  (require 'yasnippet)
  (setq yas-triggers-in-field t)
  ;; https://superuser.com/questions/1006188/can-emacs-be-set-up-to-display-
python-code-in-python-mode-and-display-docstrings
  ;(add-to-list 'load-path
"~/ .emacs.d/python-docstring-mode")
  ;(require 'python-docstring)
  ;(add-hook 'python-mode-hook (lambda
() (python-docstring-mode t)))
  (yas-minor-mode 1)
  ;; (defun my/autoinsert-yas-expand()
  ;;   "Replace text in yasnippet template."
  ;;   (yas/expand-snippet (buffer-string) (point-min) (point-max)))
  )
```

## 9. helm

Before we load any helm things, need to load helm-flx so it uses flx instead of helm's fuzzy matching. ([Ref](#))

```
(use-package helm-flx
  :init (helm-flx-mode +1))
```

A good reference: <https://writequit.org/org/settings.html#sec-1-34>

```
(use-package helm

;; :bind
;; ("C-M-z" . helm-resume)
;; ("C-x C-f" . helm-find-files)
;; ("C-h b" . helm-descbinds)
;; ("C-x C-r" . helm-mini)
;; ("C-x M-o" . helm-occur)
;; ("M-y" . helm-show-kill-ring)
;; ("C-h a" . helm-apropos)
;; ("C-h m" . helm-man-woman)
;; ("M-g >" . helm-ag-this-file)
;; ("M-g ," . helm-ag-pop-stack)
;; ("M-g ." . helm-do-grep)
;; ("C-x C-i" . helm-semantic-or-imenu)
;; ("M-x" . helm-M-x)
;; ("C-x C-b" . helm-buffers-list)
;; ("C-x C-r" . helm-mini)
;; ("C-x b" . helm-mini)
;; ("C-h t" . helm-world-time))

:init
(helm-mode 1)

:config
(global-set-key (kbd "M-x") #'helm-M-x)
```

```
;; (global-set-key (kbd "C-x r b") #'helm-filtered-bookmarks)
;; (global-set-key (kbd "M-C-b") #'helm-filtered-bookmarks)
(global-set-key (kbd "M-C-o") #'helm-filtered-bookmarks)
(global-set-key (kbd "C-x C-f") #'helm-find-files)
;; rebind tab to run persistent action
(define-key helm-map (kbd "<tab>") 'helm-execute-persistent-action)
;; make TAB work in terminal
(define-key helm-map (kbd "C-i") 'helm-execute-persistent-action)
;; list actions using C-z
(define-key helm-map (kbd "C-z") 'helm-select-action)
)
```

## 10. python

### 10.1. Basics

```
(defun my/turn-on-elpy-mode ()
  (interactive)
  (elpy-mode))

(use-package python
  :defer t
  :mode ("\\.py\\'" . python-mode)
  :interpreter ("python" . python-mode)
  ;; :hook hs-minor-mode
  :bind (:map python-mode-map
            ("C-c C-c" . compile)
            ("s-e" . my/turn-on-elpy-mode)
          )
  :config
  (setq python-shell-interpreter "/Users/chongchonghe/anaconda3/bin/python3")
  (define-key python-mode-map (kbd "C-c C-z") 'run-python)
  (define-key python-mode-map (kbd "<backtab>") 'python-back-indent)
  (setq python-python-command "/Users/chongchonghe/anaconda3/bin/python")
  (defun my-insert-comments (string)
    "Insert \\label{ARG} \\index{\\nameref{ARG}} at point"
    (interactive "sString for \\label and \\nameref: ")
    (insert "##### " string " #####"))
  (define-key python-mode-map (kbd "<f5>") 'my-insert-comments)
  (defun my-insert-comments-block (string)
    "Insert \\label{ARG} \\index{\\nameref{ARG}} at point"
    (interactive "sString for \\label and \\nameref: ")
    (insert "# {{{ " string "
# }}}"))
  (define-key python-mode-map (kbd "<f6>") 'my-insert-comments-block)
  )
(add-hook 'python-mode-hook 'hs-minor-mode)

(use-package python
  :defer t
  :mode ("\\.py\\'" . python-mode)
  :interpreter ("python" . python-mode)
  :init
  (setq-default indent-tabs-mode nil)
  :hook hs-minor-mode
  ;; :bind (:map python-mode-map
  ;;       ("C-c C-c" . compile)
  ;;       ((kbd "<backtab>") . python-back-indent)
  ;;       )
  )
```

```

:config
(setq python-indent-offset 4)
(elpy-enable)
;; (elpy-use-ipython)
(setq elpy-rpc-backend "jedi")
;; (add-hook 'elpy-mode-hook) ;; 'py-autopep8-enable-on-save)
(setq python-shell-interpreter "ipython"
  python-shell-interpreter-args "--simple-prompt -i")
(defun my-insert-comments (string)
  "Insert \label{ARG} \index{\nameref{ARG}} at point"
  (interactive "sString for \label and \nameref: ")
  (insert "##### " string " #####"))
(define-key python-mode-map (kbd "<f5>") 'my-insert-comments)
)

```

## 10.2. Jedi

elpy include jedi???

```

;; (use-package jedi
;;   :ensure t)

```

## 10.3. elpy

Ref: <https://medium.com/analytics-vidhya/managing-a-python-development-environment-in-emacs-43897fd48c6a>

```

(use-package flycheck)

(use-package elpy
  :bind
  (:map elpy-mode-map
    ("C-M-n" . elpy-nav-forward-block)
    ("C-M-p" . elpy-nav-backward-block))
  :hook ((elpy-mode . flycheck-mode))
  ;; :init
  ;; (elpy-enable)
  :config
  (setq elpy-modules (delq 'elpy-module-flymake elpy-modules))
                        ; fix for MacOS, see
https://github.com/jorgenschaefel/elpy/issues/1550
  (setq elpy-shell-echo-output nil)
  (setq elpy-rpc-python-command "python3")
  (setq elpy-rpc-timeout 30)      ; elpy autopep8 call timeout
  )
;; (use-package elpy
;;   :ensure t
;;   :commands elpy-enable
;;   :init (with-eval-after-load 'python (elpy-enable))
;;   )

```

## 10.4. old

```

(with-eval-after-load 'python
  ;; Disable elpy Vertical Guide Lines for Indentation
  (add-hook 'elpy-mode-hook (lambda () (highlight-indentation-mode -1)))
  (when (require 'flycheck nil t)
    (setq elpy-modules (delq 'elpy-module-flymake elpy-modules))
    (add-hook 'elpy-mode-hook 'flycheck-mode))
)

```

```

;;(require 'py-autopep8)
;; (define-key ein:notebook-mode-map (kbd "C-c C-x d")
;;   'ein:worksheet-delete-cell)
;; Autoinsert Python comments
;;(global-set-key (kbd "<f6>") 'my-insert-docstring)
;;(defun my-insert-docstring (string)
;;  "Insert \label{ARG} \index{\nameref{ARG}} at point"
;;  (interactive "sString for \\label and \\nameref: ")
;;  (insert '"" ' string ' ""))
;; jedi, replaced by (setq elpy-rpc-backend "jedi")
;; (add-hook 'python-mode-hook 'jedi:setup)
;; (setq jedi:complete-on-dot t)
(setq elpy-rpc-ignored-buffer-size 204800)
)

```

Auto-insert (disabled). [Ref.](#) Replaced by yasnippet

```

;; ref: https://www.webscalability.com/blog/2018/07/auto-insert-snippet-for-
python-emacs/
;; insert python skeleton with auto-insert
;; (setq python-skeleton-autoinsert nil)
;; (eval-after-load 'autoinsert
;;   '(define-auto-insert
;;     '("\\\\.\\py\\" . "python skeleton")
;;     '("
;;       "#!/usr/bin/env python" \n
;;       "\"\"\""
;;       (file-name-nondirectory (buffer-file-name)) \n \n
;;       "Author: Chong-Chong He (chel234@umd.edu)" \n
;;       "Written on " (format-time-string "%a, %e %b %Y.") \n
;;       "\"\"\"" \n
;;       \n
;;       "import numpy as np" \n
;;       "import matplotlib.pyplot as plt" \n
;;       \n
;;       > _ \n
;;       \n
;;       "if __name__ == '__main__':" \n
;;       "pass" \n \n)))

```

## 10.5. Snippets

Usage: `defg<tab>`. Ref: stackexchange, [Library for automatically inserting python docstring in Google style](#)

```

(defun python-args-to-google-docstring (text &optional make-fields)
  "Return a reST docstring format for the python arguments in yas-text."
  (let* ((indent (concat "\n" (make-string (current-column) 32)))
        (args (python-split-args text))
        (nr 0)
        (formatted-args
         (mapconcat
          (lambda (x)
            (concat "    " (nth 0 x)
                    (if make-fields (format " ${%d:arg%d}" (cl-incf nr) nr))
                    (if (nth 1 x) (concat " \\\(default " (nth 1 x) "\\)")))))
          args
          indent)))
    (unless (string= formatted-args "")
      (concat

```

```
(mapconcat 'identity
  (list "" "Args:" formatted-args)
  indent)
"\n"))))
```

## 10.6. Anaconda-mode

```
(use-package anaconda-mode)
```

## 11. Julia mode

```
(use-package julia-mode)
```

## 12. Markdown

### 12.1. Links

- <https://jblevins.org/projects/markdown-mode/>

### 12.2. Key-bindings

---

C-c LEFT/RIGHT	Downmote/Promote heading, list, etc
C-c C-x C-m	markdown-toggle-markup-hiding

---

### 12.3. Basic configures

```
(use-package markdown-mode
  :ensure t
  :mode ("README\\.md\\'" . gfm-mode)
  :init
  (setq markdown-command "multimarkdown")
)
(eval-after-load 'markdown-mode
  '(progn
    (define-key evil-normal-state-map (kbd "TAB") 'markdown-cycle)
    (define-key markdown-mode-map (kbd "M-n") 'markdown-outline-next)
    (define-key markdown-mode-map (kbd "M-p") 'markdown-outline-previous))
  )
```

### Keybindings

Use tab as indent:

```
(add-hook 'text-mode-hook
  '(lambda ()
    (setq indent-tabs-mode t)
    (setq tab-width 4)))
```

## 12.4. Livedown

```
(add-to-list 'load-path (expand-file-name "~/.emacs.d/emacs-livedown"))
(require 'livedown)
```

## 12.5. Marked 2.app

Source: <https://www.nistara.net/post/2016-07-21-emacs-marked/>

```
;; Getting emacs to use the 'Marked' app
(defun markdown-preview-file ()
  "run Marked on the current file and revert the buffer"
  (interactive)
  (shell-command
   (format "open -a /Applications/Marked\\ 2.app %s"
           (shell-quote-argument (buffer-file-name))))
  )
(eval-after-load 'markdown-mode
  '(define-key markdown-mode-map (kbd "C-c m") 'markdown-preview-file))
(defalias 'marked 'markdown-preview-file)
```

## 12.6. Beautify

<https://emacs.stackexchange.com/questions/14740/how-to-configure-markdown-mode-to-render-headings-like-org-mode>

C-c C-x C-m to toggle markup hiding.

# 13. Latex

## 13.1. Basics

```
(use-package latex
  :defer t
  :ensure auctex
  :mode ("\\.tex\\'" . LaTeX-mode)
  :bind
  (:map LaTeX-mode-map
    ("M-n" . outline-next-heading)
    ("M-p" . outline-previous-heading)
    ("C-c C-c" . TeX-command-run-all)
    ("C-c l" . TeX-error-overview)
    ;; ((kbd "C-tab") . TeX-complete-symbol)
    ("C-c w" . juanjo:textcount))
  :config
  (setq TeX-auto-save t)
  (setq TeX-auto-save t)
  (setq TeX-PDF-mode t) ;; Compile documents to PDF by default
  (setq TeX-parse-self t)
  (setq TeX-save-query nil)
  ;; (setq-default TeX-master nil) ;; Make emacs aware of multi-file projects
  (add-hook 'LaTeX-mode-hook #'visual-line-mode)
  (add-hook 'LaTeX-mode-hook #'no-auto-fill)
  (add-hook 'LaTeX-mode-hook #'hs-minor-mode)
  (add-hook 'LaTeX-mode-hook #'outline-minor-mode)
  (add-hook 'LaTeX-mode-hook #'flyspell-mode)
  (add-hook 'LaTeX-mode-hook #'LaTeX-math-mode))
```

```

(evil-define-key 'normal outline-minor-mode-map (kbd "SPC") 'evil-toggle-fold)
;; CDLaTeX
(add-hook 'LaTeX-mode-hook 'turn-on-cdlatex) ; with AUCTeX LaTeX mode
;; (setq reftex-plug-into-auctex t)
(add-hook 'LaTeX-mode-hook 'turn-on-reftex)
(setq reftex-plug-into-AUCTeX t)
(autoload 'helm-bibtex "helm-bibtex" "" t)
(electric-pair-mode)
;; compile
;; (evil-define-key 'normal LaTeX-mode-map (kbd ", l") 'TeX-command-master)
;; do not query the user before saving each file with TeX-save-document
(setq TeX-save-query nil)
(evil-define-key 'normal LaTeX-mode-map (kbd ", l") 'TeX-command-run-all)
(evil-define-key 'normal LaTeX-mode-map (kbd ", v") 'TeX-view)
(evil-define-key 'normal LaTeX-mode-map (kbd "M-w") 'LaTeX-fill-region)
;; sync
;; Enable the clicking feature of the sync
(add-hook 'LaTeX-mode-hook
  (lambda () (local-set-key (kbd "<S-s-mouse-1>") #'TeX-view)))
)
(setq TeX-PDF-mode t) ;; Compile documents to PDF by default
;; Use Skim as viewer, enable source <-> PDF sync
;; make latexmk available via C-c C-c
;; Note: SyncTeX is setup via ~/.latexmkrc (see below)
(add-hook 'LaTeX-mode-hook (lambda ()
  (push
    '("latexmk" "latexmk -pdf %s" TeX-run-Tex nil t :help
      "Run latexmk on file")
    TeX-command-list)))
)
(add-hook 'TeX-mode-hook '(lambda () (setq TeX-command-default "latexmk"))))
;; use Skim as default pdf viewer
;; Skim's displayline is used for forward search (from .tex to .pdf)
;; option -b highlights the current line; option -g opens Skim in the
background
(setq TeX-view-program-selection '((output-pdf "PDF Viewer")))
(setq TeX-view-program-list
  '(("PDF Viewer" "/Applications/Skim.app/Contents/SharedSupport/displayline
-b -g %n %o %b"))))
;; keybindings
;; (define-key outline-mode-map [M-left] 'outline-hide-body)
;; (define-key outline-mode-map [M-right] 'outline-show-all)
;; (define-key outline-mode-map [M-up] 'outline-previous-heading)
;; (define-key outline-mode-map [M-down] 'outline-next-heading)
;; (define-key outline-mode-map [C-M-left] 'outline-hide-sublevels)
;; (define-key outline-mode-map [C-M-right] 'outline-show-children)
;; (define-key outline-mode-map [C-M-up] 'outline-previous-visible-heading)
;; (define-key outline-mode-map [C-M-down] 'outline-next-visible-heading)
(defun turn-on-outline-minor-mode () (outline-minor-mode 1))
(add-hook 'LaTeX-mode-hook 'turn-on-outline-minor-mode)
(add-hook 'LaTeX-mode-hook 'turn-on-outline-minor-mode)
(defun turn-on-flycheck-mode () (flycheck-mode 1))
(add-hook 'LaTeX-mode-hook 'turn-on-flycheck-mode)
)

```

Set preview image format as svg. Note: this rely on the use of [Yamamoto's Emacs a.k.a. Emacs Mac Port](#), which has svg support. Regular emacs downloaded from [emacsformacosx.com](#) will not work.

Source: <https://emacs.stackexchange.com/a/34085>

```
(setq org-latex-create-formula-image-program 'dvisvgm)
```

```

(setq org-preview-latex-default-process 'dvisvgm)
;; (setq org-preview-latex-default-process 'divpng)
;; (setq my:dvi-to-svg
;;       (my:dvi-to-svg :programs
;;         ("latex" "dvisvgm")
;;         :description "dvi > svg"
;;         :message "you need to install the programs: latex and dvisvgm."
;;         :use-xcolor t
;;         :image-input-type "dvi"
;;         :image-output-type "svg"
;;         :image-size-adjust (1.7 . 1.5)
;;         :latex-compiler ("latex -interaction nonstopmode -output-
directory %o %f")
;;         :image-converter ("dvisvgm %f -e -n -b min -c %S -o %O")))
;; (with-eval-after-load 'ox-latex
;;   (add-to-list 'org-preview-latex-process-alist my:dvi-to-svg)
;;   (setq org-preview-latex-default-process 'my:dvi-to-svg))

(use-package preview-dvisvgm)

;; not used

(global-set-key [M-left] 'outline-hide-body)
(global-set-key [M-right] 'outline-show-all)
(global-set-key [M-up] 'outline-previous-heading)
(global-set-key [M-down] 'outline-next-heading)
(global-set-key [C-M-left] 'outline-hide-sublevels)
(global-set-key [C-M-right] 'outline-show-children)
(global-set-key [C-M-up] 'outline-previous-visible-heading)
(global-set-key [C-M-down] 'outline-next-visible-heading)

;; AucTeX
(setq reftex-default-bibliography
'("/Users/chongchonghe/Academics/Bib/BIB_HE.bib") )
(setq helm-bibtex-bibliography
'("/Users/chongchonghe/Academics/Bib/BIB_HE.bib") )
(setq reftex-default-bibliography
'("/Users/chongchonghe/Academics/Bib/BIB_HE.bib"))
(setq helm-bibtex-bibliography
'("/Users/chongchonghe/Academics/Bib/BIB_HE.bib"))

(add-hook 'LaTeX-mode-hook
          (lambda ()
            (define-key LaTeX-mode-map (kbd "$") 'self-insert-command)
            ))

(require 'smartparens-config)
(add-hook 'LaTeX-mode-hook #'smartparens-mode)

```

## 13.2. citation

```

(use-package reftex)
(setq reftex-default-bibliography
'("/Users/chongchonghe/Academics/Bib/BIB_HE.bib"))
;; (setq reftex-default-bibliography
;;       '("/Users/chongchonghe/Academics/Bib/BIB_HE.bib",
;;         "/Users/chongchonghe/Academics/Bib/Books.bib",
;;         "/Users/chongchonghe/Academics/Bib/Bib_HE_PhD.bib"))

```



```
(setq reftex-external-file-finders
  '(("tex" . "/path/to/kpsewhich -format=.tex %f")
    ("bib" . "/path/to/kpsewhich -format=.bib %f")))

```

## 14. Other packages

### 14.1. windresize

```
(use-package windresize
  :defer t
  :bind
  ("C-c w" . windresize)
)

```

### 14.2. clipboard2org (not working)

<https://github.com/itf/clipboard2org>

```
(use-package clipboard2org
  :load-path "/Users/chongchonghe/.emacs.d/pkgs")

```

### 14.3. html2org-clipboard

Source: <https://stackoverflow.com/a/64408897> Source2:

<https://emacs.stackexchange.com/questions/12121/org-mode-parsing-rich-html-directly-when-pasting>

```
(defun my-html2org-clipboard ()
  "Convert clipboard contents from HTML to Org and then paste (yank).\"
  (interactive)
  (setq cmd "osascript -e 'the clipboard as \"HTML\"' | perl -ne 'print chr
foreach unpack(\"C*\",pack(\"H*\",substr($_,11,-3)))' | pandoc -f html -t json
| pandoc -f json -t org --wrap=none")
  (kill-new (shell-command-to-string cmd))
  (yank))

(define-key org-mode-map (kbd "s-V") #'my-html2org-clipboard)

```

## 15. Keybindings

### 15.1. Make swithing windows easier

```
;; ;; make swithing windows easier
(global-set-key (kbd "M-p") (kbd "C-- C-x o"))
(global-set-key (kbd "M-n") (kbd "C-x o"))
(global-set-key (kbd "M-j") 'windmove-down)
(global-set-key (kbd "M-k") 'windmove-up)
(global-set-key (kbd "M-h") 'windmove-left)
(global-set-key (kbd "M-l") 'windmove-right)
;; (global-set-key (kbd "M-j") 'evil-window-down)
;; (global-set-key (kbd "M-k") 'evil-window-up)
;; (global-set-key (kbd "M-h") 'evil-window-left)
;; (global-set-key (kbd "M-l") 'evil-window-right)
(define-key evil-normal-state-map (kbd "M-h") #'evil-window-left)
(define-key evil-normal-state-map (kbd "M-j") #'evil-window-down)

```

```
(define-key evil-normal-state-map (kbd "M-k") #'evil-window-up)
(define-key evil-normal-state-map (kbd "M-l") #'evil-window-right)

(use-package transpose-frame)

(global-set-key (kbd "<f12>") 'next-buffer)
(global-set-key (kbd "<f11>") 'previous-buffer)
```

## 15.2. super keys

```
(global-set-key (kbd "s-v") 'clipboard-yank)
(global-set-key (kbd "s-k") 'kill-current-buffer)
(global-set-key (kbd "s-e") 'eval-region)
(global-set-key (kbd "s-b") 'eval-buffer)
(global-set-key (kbd "s-c") 'compile)
(global-set-key (kbd "s-r") 'recompile)
(global-set-key (kbd "s-,") 'previous-buffer)
(global-set-key (kbd "s-." ) 'next-buffer)
;; (global-unset-key (kbd "s-j"))
;; (global-set-key (kbd "s-j") 'jump-to-register)
;; (global-set-key (kbd "M-v") 'evil-paste-after)
```

## 15.3. Clipboard

```
(global-set-key (kbd "M-v") 'clipboard-yank)
```

## 15.4. Adjust window size

```
(fset 'my/shrink (kbd "C-u 39 C-x {"))
```

## 16. Smooth scroll

```
;; (use-package smooth-scroll
;;       :config
;;       (smooth-scroll-mode 1)
;;       (setq smooth-scroll/vscroll-step-size 5)
;;       )
;; (use-package smooth-scrolling
;;       :config
;;       (smooth-scrolling-mode 1))
```

## 17. tramp

Make tramp faster:

```
(setq remote-file-name-inhibit-cache nil)
(setq vc-ignore-dir-regexp
      (format "%s\\|%s"
              vc-ignore-dir-regexp
              tramp-file-name-regexp))

(setq tramp-verbose 1)

(setq server-use-tcp t
      server-port 9999)
(defun server-start-and-copy ()
  (server-start)
  (copy-file "~/ .emacs.d/server/server" "/des:.emacs.d/server/server" t))
```

```
(add-hook 'emacs-startup-hook 'server-start-and-copy)
```

## 18. hide-show

```
(add-hook 'hs-minor-mode-hook
  (lambda ()
    ;; (local-set-key (kbd "C-c p") 'hs-toggle-hiding)
    ;; (local-set-key (kbd "SPC") 'hs-toggle-hiding)
    (local-set-key (kbd "C-c h") 'hs-hide-all)
    (local-set-key (kbd "C-c s") 'hs-show-all)
    (local-set-key (kbd "C-c l") 'hs-hide-level)))
(add-hook 'emacs-lisp-mode-hook 'hs-minor-mode)
(evil-define-key 'normal hs-minor-mode-map (kbd "SPC") 'hs-toggle-hiding)

;; (add-hook 'hs-minor-mode-hook 'my-hideshow-config)
;; (defun my-hideshow-config ()
;;   "For use in 'hs-minor-mode-hook'."
;;   ;; (local-set-key (kbd "C-c p") 'hs-toggle-hiding)
;;   ;; (local-set-key (kbd "SPC") 'hs-toggle-hiding)
;;   (local-set-key (kbd "C-c h") 'hs-hide-all)
;;   (local-set-key (kbd "C-c s") 'hs-show-all)
;;   (local-set-key (kbd "C-c l") 'hs-hide-level)
;; )
;; (add-hook 'emacs-lisp-mode-hook 'hs-minor-mode)
;; (evil-define-key 'normal hs-minor-mode-map (kbd "SPC") 'hs-toggle-hiding)
```

## 19. Some Automatics

### 19.1. Initial my tasks.org view

Not working...

```
(defun taskinit ()
  (interactive)
  (split-window-right)
  ((kbd "C-u 10 C-x {"))
  (set-frame-height (selected-frame) 60)
)
```

## 20. dashboard

- <https://github.com/rakanalh/emacs-dashboard>
- <https://emacs.stackexchange.com/questions/14282/replace-splash-screen-with-list-of-recentf>

```
(use-package dashboard
  :ensure t
  :diminish dashboard-mode
  :config
  (setq dashboard-banner-logo-title "Welcome! Work day.")
  ;; (setq dashboard-startup-banner "/path/to/image")
  (setq dashboard-items '((recents . 10)
                          (bookmarks . 10)))
  (dashboard-setup-startup-hook)
)
```

## 21. Folding mode

### 21.1. Usage

Folding block are defined as # { { { and # } } } pairs (in python mode). Use the snippet '#{<tab>' to quick insert. Use <F9> to toggle folding.

Source: <https://www.emacswiki.org/emacs/FoldingMode#toc6>

### 21.2. Config

```
(use-package folding
  :ensure t
  :load-path "/Users/chongchonghe/dotfiles/emacs/packages/project-emacs--folding-mode"
  :config
  (folding-mode-add-find-file-hook)
  (add-hook 'folding-mode
            (lambda () (local-set-key [f9] 'folding-toggle-show-hide)))
  )
```

## 22. f.el

```
(use-package helm-org)
(use-package f)
```

## 23. layout-restore.el

Old and causing problem. Not using.

Ref: <https://www.emacswiki.org/emacs/layout-restore.el>

```
;; (use-package layout-restore
;;   :defer nil
;;   :load-path "~/dotfiles/emacs/packages/layout-restore.el"
;;   :config
;;   (global-set-key (kbd "C-c l") 'layout-save-current)
;;   (global-set-key (kbd "C-c r") 'layout-restore)
;;   (global-set-key (kbd "C-c d") 'layout-delete-current)
;;   )

;; (require 'layout-restore)
;; (global-set-key (kbd "C-c l") 'layout-save-current)
;; (global-set-key (kbd "C-c r") 'layout-restore)
;; (global-set-key (kbd "C-c d") 'layout-delete-current)
```

## 24. Neotree

```
(use-package neotree
  :config
  (defun my-neotree-mode-config ()
    "For use in 'neotree-mode-hook'."
    ;; (local-set-key (kbd "j") 'neotree-next-line)
    ;; (local-set-key (kbd "k") 'neotree-previous-line)
    (local-set-key (kbd "C-j") 'neotree-change-root)
    (local-set-key (kbd "C-k") 'neotree-select-up-node)
```

```

(local-set-key (kbd "<return>") 'neotree-enter)
;; (local-set-key (kbd "SPC") 'neotree-quick-look)
(evil-define-key 'normal neotree-mode-map (kbd "SPC") 'neotree-quick-look)
;; (with-eval-after-load 'neotree
;;   (define-key neotree-mode-map (kbd "<return>") 'neotree-enter))
(define-key evil-normal-state-local-map (kbd "q") 'neotree-hide)
(define-key evil-normal-state-local-map (kbd "g") 'neotree-refresh)
(define-key evil-normal-state-local-map (kbd "A") 'neotree-stretch-toggle)
(define-key evil-normal-state-local-map (kbd "H") 'neotree-hidden-file-
toggle)
)
(add-hook 'neotree-mode-hook 'my-neotree-mode-config))
(add-hook 'neotree-mode-hook
  (lambda () (define-key evil-motion-state-local-map (kbd "g") 'neotree-
refresh)))

```

## 25. Other major and minor modes

### 25.1. matlab

```
;; (use-package matlab-mode)
```

## 26. Themes and fonts

### 26.1. Not used

The following is an example of installing a theme

```

;;customize theme
(add-to-list 'custom-theme-load-path "~/.emacs.d/moe-theme.el/")
(add-to-list 'load-path "~/.emacs.d/moe-theme.el/")
(require 'moe-theme)

```

The tsdh theme (disabled, replaced with doom theme)

```

;;customize theme
(add-to-list 'custom-theme-load-path "~/.emacs.d/themes/")
(add-to-list 'load-path "~/.emacs.d/themes/")
(require 'tsdh-light-theme)
;; (set-background-color "#d4cec3")
;; (set-background-color "#e6e3df")
(set-background-color "#f5efe6")

```

### 26.2. Doom theme

```

(defun my-light-theme ()
  (interactive)
  (load-theme 'doom-one-light t)
  ;; (set-background-color "#e6e3df")
  (set-background-color "#fffcf7")
  (my-org-set-light-todo-faces)
)
(defun my-dark-theme ()
  (interactive)
  (load-theme 'doom-one t)
  (set-foreground-color "#eee")
)

```

```

(my-org-set-dark-todo-faces)
)
(use-package doom-themes
  :ensure t
  :config
  ;; Global settings (defaults)
  (setq doom-themes-enable-bold t      ; if nil, bold is universally disabled
        doom-themes-enable-italic t) ; if nil, italics is universally disabled
  ;; (load-theme 'doom-one t)
  ;; (load-theme 'doom-one-light t)
  (my-light-theme)
)
;; Default font
(set-face-attribute 'default nil :font "Monaco-16")

```

## 26.3. Mixed-pitch

Ref: <https://gitlab.com/jabranham/mixed-pitch>

```

;; mixed-pitch
(use-package mixed-pitch
  :hook
  ;; If you want it in all text modes:
  (text-mode . mixed-pitch-mode)
  ;; not sure. ref: https://emacs-china.org/t/doom-emacs-mixed-pitch-set-
height-org/16558
  ;; (mixed-pitch-mode . #'solaire-mode-reset)
  :config
  (set-face-attribute 'variable-pitch nil :family "Helvetica Neue" :height 1.2)
  (set-face-attribute 'fixed-pitch nil :family "Monaco" :height 1.0)
  ;; bigger text for org-mode headings
  (custom-theme-set-faces
   'user
   `(org-level-4 ((t (:inherit outline-4 :height 1.0))))
   `(org-level-3 ((t (:inherit outline-3 :height 1.1))))
   `(org-level-2 ((t (:inherit outline-2 :height 1.2))))
   `(org-level-1 ((t (:inherit outline-1 :height 1.3))))
   `(org-document-title ((t (:family "Helvetica Neue" :height 1.6 :underline
nil)))))
  )
  (setq mixed-pitch-set-height t)
)

```

## 26.4. Chinese font

```

;;; 中文与英文字体设置
;; Setting English Font
;; (set-face-attribute
;;   'default nil :font "Monaco 14")
;; Chinese Font
(dolist (charset '(kana han symbol cjk-misc bopomofo))
  (set-fontset-font (frame-parameter nil 'font)
                    charset (font-spec :family "STHeiti" :height 1.0)))
;; more options:
;; "PingFang SC": ugly
;; "STXihei": thicker

```

## 26.5. Window size and more

Window size (wide high, in chars)

```
(when window-system (set-frame-size (selected-frame) 130 50))
```

Here are some more sophisticated config (not being used)

```
;; Define variable font
(let* ((variable-tuple
      (cond ((x-list-fonts "ETBembo") '(:font "ETBembo"))
            ((x-list-fonts "Source Sans Pro") '(:font "Source Sans Pro"))
            ((x-list-fonts "Lucida Grande") '(:font "Lucida Grande"))
            ((x-list-fonts "Verdana") '(:font "Verdana"))
            ((x-family-fonts "Sans Serif") '(:family "Sans Serif"))
            (nil (warn "Cannot find a Sans Serif Font. Install Source Sans
Pro."))))))

(custom-theme-set-faces
 'user
 `(org-level-7 ((t (:inherit outline-7 ,@variable-tuple)))
  `org-level-6 ((t (:inherit outline-6 ,@variable-tuple)))
  `org-level-5 ((t (:inherit outline-5 ,@variable-tuple)))
  `org-level-4 ((t (:inherit outline-4 ,@variable-tuple :height 1.1)))
  `org-level-3 ((t (:inherit outline-3 ,@variable-tuple :height 1.25)))
  `org-level-2 ((t (:inherit outline-2 ,@variable-tuple :height 1.5)))
  `org-level-1 ((t (:inherit outline-1 ,@variable-tuple :height 1.75)))
  `org-document-title ((t (,@variable-tuple :height 2.0 :underline nil))))
))

;; (custom-theme-set-faces
;; 'user
;; ;; '(variable-pitch ((t (:inherit default :family "ETBembo" :height
180))))
;; '(variable-pitch ((t (:inherit default :family "Source Serif Pro" :height
180))))
;; ;; '(fixed-pitch ((t (:inherit default :family "Source Font Pro" :height
140))))
;; ;; '(org-table ((t (:inherit fixed-pitch))))
;; ;; '(org-block ((t (:inherit fixed-pitch))))
;; ;; '(org-block-begin-line :foreground fg :slant 'italic :inherit 'fixed-
pitch)
;; )
```

## 27. Keybinding in the end

### 27.1. Global keys

```
(global-set-key (kbd "C-c c") 'org-capture)
(global-set-key (kbd "C-c a") 'org-agenda)
;; (global-set-key (kbd "C-c a") 'org-agenda-list)
;; (define-key yas-minor-mode-map (kbd "C-c t") nil)
;; (global-set-key (kbd "C-c t") 'org-todo-list)
;; ;; (bind-key* "C-c t" 'org-todo-list)
;; (global-set-key (kbd "<f9>") 'org-todo-list)
(defun my/kill-other-buffers ()
  "Kill all other buffers."
  (interactive)
  (mapc 'kill-buffer (delq (current-buffer) (buffer-list))))
```

```
(defun my/kill-all-buffers ()
  "Kill all other buffers."
  (interactive)
  (mapc 'kill-buffer (buffer-list)))
```

## 27.2. org-mode keymap

```
;; (with-eval-after-load 'org
;;   (define-key org-agenda-mode-map (kbd "j") #'org-agenda-next-item)
;;   (define-key org-agenda-mode-map (kbd "k") #'org-agenda-previous-item))
```

## 27.3. my-keys-minor-mode (not using)

<https://stackoverflow.com/questions/683425/globally-override-key-binding-in-emacs/5340797#5340797>

```
(defvar my-mode-map
  (let ((map (make-sparse-keymap)))
    (
define-key map (kbd "C-i") 'some-function)
  map)
  "my-keys-minor-mode keymap.")

(define-minor-mode my-mode
  "A minor mode so that my key settings override annoying major modes."
  :init-value t
  :lighter " my-keys")

(my-mode 1)

(defun my-minibuffer-setup-hook ()
  (my-mode 0))

(add-hook 'minibuffer-setup-hook 'my-minibuffer-setup-hook)

(define-key my-mode-map (kbd "C-c t") 'org-todo-list)
(require 'bind-key)
(bind-key* "C-c t" 'org-todo-list)
```

## 28. Try (TODO)

```
(defvar org-babel-eval-verbose t
  "A non-nil value makes `org-babel-eval' display")

(defun org-babel-eval (cmd body)
  "Run CMD on BODY.
If CMD succeeds then return its results, otherwise display
STDERR with `org-babel-eval-error-notify'."
  (let ((err-buff (get-buffer-create " *Org-Babel Error*")) exit-code)
    (with-current-buffer err-buff (erase-buffer))
    (with-temp-buffer
      (insert body)
      (setq exit-code
        (org-babel--shell-command-on-region
         (point-min) (point-max) cmd err-buff))
      (if (or (not (numberp exit-code)) (> exit-code 0)
            (and org-babel-eval-verbose (> (buffer-size err-buff) 0))) ; new
          condition
```



```
(progn
  (with-current-buffer err-buff
    (org-babel-eval-error-notify exit-code (buffer-string)))
  nil)
(buffer-string))))
```

- insert file content into .el file
  - <https://stackoverflow.com/questions/34432246/how-to-read-contents-of-the-file-programmatically-in-emacs>

## 29. Startup

```
;; (defun my-shrink ()
;;   (interactive)
;;   ;; (funcall (key-binding (kbd "C-u 39 C-x {")))
;;   ;; (call-interactively (key-binding (kbd "C-u 39 C-x {")))
;;   ;; (/ (loop repeat 39 collect (key-binding (kbd "C-u 39 C-x {"))))
;;   ;; (/ (loop repeat n sum (funcall f arg)) n)
;;   ;; (cl-loop repeat 39 (shrink-window-horizontally))
;;   (r 39 'shrink-window-horizontally 'nil')
;;   'shrink-window-horizontally
;;   'shrink-window-horizontally
;;   'shrink-window-horizontally
;;   'shrink-window-horizontally
;; )

;; Saving Emacs Sessions
;; (desktop-save-mode 1)

;; (fset 'my-shrink (kbd "C-u 43 C-x {"))
(defun my-shrink ()
  (interactive)
  ;; (shrink-window-horizontally 60)
  (evil-window-set-width 80)
)
(defun my-todo ()
  (interactive)
  (split-window-right)
  (evil-window-right 1)
  ;; (find-file "~/Dropbox/orgfiles/work.org")
  (org-agenda-list)
  (my-shrink)
)

;; open agenda list
(org-agenda-list)
```