

My Emacs config

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June 21, 2022

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1 Package management

1.1 MELPA

```
(require 'package)
(add-to-list 'package-archives
  '("melpa" . "https://melpa.org/packages/") t)
(package-initialize)
```

1.2 Modernized package menu

Use paradox.

```
(use-package paradox
  :init (paradox-enable))
```

1.3 Better package setup

Use use-package

```
(unless (package-installed-p 'use-package)
  (package-refresh-contents)
  (package-install 'use-package))
(eval-and-compile
  ; Always make sure packages are installed correctly at every startup
  (setq use-package-always-ensure t
        use-package-expand-minimally t))
```

2 Pretty Emacs

2.1 Theme

Although Atom is being sunset by GitHub, the default theme it provided is one of the best-looking and easy-on-the-eyes color scheme out in the wild. doom-one theme is more actively maintained than atom-one-dark-theme.

```
(use-package doom-themes
  :ensure t
  :config
  (setq doom-themes-enable-bold t
```

```
doom-themes-enable-italic t)
(load-theme 'doom-one t))
```

2.2 Font

JuliaMono provides the most comprehensive unicode support.

```
(set-frame-font "JuliaMono 15" nil t)
; Apply the font to emacsclients
(add-to-list 'default-frame-alist '(font . "JuliaMono 15"))
```

2.3 Icons

```
(use-package all-the-icons
  :if (display-graphic-p))
```

2.4 Modeline Theme

```
(use-package doom-modeline
  :hook (after-init . doom-modeline-mode))
```

2.5 Miscellaneous

Seamless title bar in macOS.

```
(tool-bar-mode -1)
(use-package ns-auto-titlebar
  :config (ns-auto-titlebar-mode))
```

Line numbering.

```
(global-display-line-numbers-mode)
```

Get rid of irritating beep-boops.

```
(defun flash-mode-line ()
  (invert-face 'mode-line)
  (run-with-timer 0.1 nil #'invert-face 'mode-line))
(setq visible-bell nil ring-bell-function #'flash-mode-line)
```

Prettify symbols.

```
(global-prettify-symbols-mode 1)
```

3 Key bindings

3.1 Hints

Show what key bindings are available.

```
(use-package which-key
  :config (which-key-mode))
```

Show completions.

```
(use-package ivy
  :config
  (ivy-mode)
  (setq ivy-use-virtual-buffers t))
```

3.2 Navigation

Incremental search using ivy.

```
(use-package swiper
  :after ivy
  :bind ("C-s" . swiper-isearch))
```

Use numbering to move frames.

```
(use-package window-numbering
  :config (window-numbering-mode))
```

3.3 Miscellaneous

Use command as meta in macOS.

```
(setq mac-command-modifier 'meta)
```

4 Languages

4.1 Lisps

Pseudo-structural editing.

```
(use-package paredit
  :init
  (autoload 'enable-paredit-mode "paredit"))
```

```

    "Turn on pseudo-structural editing of Lisp code."
    t)
:config
(add-hook 'emacs-lisp-mode-hook #'enable-paredit-mode)
(add-hook 'eval-expression-minibuffer-setup-hook #'enable-paredit-mode)
(add-hook 'ielm-mode-hook #'enable-paredit-mode)
(add-hook 'lisp-mode-hook #'enable-paredit-mode)
(add-hook 'lisp-interaction-mode-hook #'enable-paredit-mode)
(add-hook 'scheme-mode-hook #'enable-paredit-mode))

Prettify lambda.

(defun prettify-lambda ()
  "Prettify lambda"
  (push '("lambda" . 955) prettify-symbols-alist))

```

4.1.1 Scheme

Set scheme interpreter to Chicken Scheme.

```

(setq scheme-program-name "csi")

Use geiser.

(use-package geiser-chicken)

Prettify symbols.

(add-hook 'scheme-mode-hook #'prettify-lambda)

```

4.2 OCaml

Opam setup.

```

(require 'opam-user-setup "~/.emacs.d/opam-user-setup.el")

```

4.3 Python

Use elpy.

```

(use-package elpy
  :init (elpy-enable))

```

4.4 Org mode

Font size and symbols.

```
(use-package org-superstar
  :config
  ;; hide #+TITLE:
  (setq org-hidden-keywords '(title))
  ;; set basic title font
  (set-face-attribute 'org-level-8 nil :weight 'bold :inherit 'default)
  ;; Low levels are unimportant = no scaling
  (set-face-attribute 'org-level-7 nil :inherit 'org-level-8)
  (set-face-attribute 'org-level-6 nil :inherit 'org-level-8)
  (set-face-attribute 'org-level-5 nil :inherit 'org-level-8)
  (set-face-attribute 'org-level-4 nil :inherit 'org-level-8)
  ;; Top ones get scaled the same as in LaTeX (\large, \Large, \LARGE)
  (set-face-attribute 'org-level-3 nil :inherit 'org-level-8 :height 1.2) ;\large
  (set-face-attribute 'org-level-2 nil :inherit 'org-level-8 :height 1.44) ;\Large
  (set-face-attribute 'org-level-1 nil :inherit 'org-level-8 :height 1.728) ;\LARGE
  ;; Only use the first 4 styles and do not cycle.
  (setq org-cycle-level-faces nil)
  (setq org-n-level-faces 4)
  ;; Document Title, (\huge)
  (set-face-attribute 'org-document-title nil
    :height 2.074
    :foreground 'unspecified
    :inherit 'org-level-8)
  (add-hook 'org-mode-hook (lambda () (org-superstar-mode 1))))
```

Prettify symbols.

```
(add-hook
 'org-mode-hook
 (lambda ()
  "Prettify Org mode symbols"
  (push '("[ ]" . "") prettify-symbols-alist)
  (push '("[X]" . "") prettify-symbols-alist)
  (push '("[-]" . "") prettify-symbols-alist)))
```

Do not open a new window when editing source.

```
(setq org-src-window-setup 'current-window)
```

Babel.

```
(org-babel-do-load-languages
  'org-babel-load-languages
  '((scheme . t)
    (python . t)))
(setq org-confirm-babel-evaluate nil)
```

4.4.1 L^AT_EX

```
(use-package ox
  :ensure nil
  :config
  (setq org-format-latex-options
    (plist-put org-format-latex-options :scale 1.5))
  (setq org-latex-create-formula-image-program 'dvisvgm)
  (setq org-preview-latex-default-process 'dvisvgm))
```

4.5 Miscellaneous

Visually match parentheses.

```
(use-package rainbow-delimiters
  :config (add-hook 'prog-mode-hook #'rainbow-delimiters-mode))
```

5 Dired

```
(use-package dired
  :ensure nil
  :config (setq dired-kill-when-opening-new-dired-buffer t))
```

6 Terminal and shell

Use vterm.

```
(use-package vterm)
```