My Emacs config

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1 Package management

1.1 MELPA

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"))
   Use D2Coding for hangul (Korean letters).
(set-fontset-font t 'hangul (font-spec :name "D2Coding"))
(setq face-font-rescale-alist '(("D2Coding" . 1.2)))
```

D2Coding is scaled so that a single Korean letter corresponds to two ASCII letters:

English	Korean
Emacs	이맥스
Vim	빔

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.

 $({\tt global\text{-}display\text{-}line\text{-}numbers\text{-}mode})$

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 LATEX
(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)