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# 1 TODO Emacs config

TODO: Fix the following

- 1. LSP Broken
- 2. Figure out how to properly set up dictionary
- 3. Org mode load times absurdly long
  - (a) The code blocks / stuff I configured for org modern, and the org bigger headlines aren't at all working, likely something in my cfg BEFORE that is breaking it
  - (b) Furthermore, look into why the Latex fragments aren't correctly rendering the trees (as seen in the) notes
  - (c) lsp in org src blocks still non-existent
  - (d) Doom modeline not working
- 4. Configure the symbols that you want to use properly
- 5. Set up ORG-TOC, or find some sort of outline view that I can use to jump around headings of a larger org file like this
- 6. fix the minimap, cause it looks like ass and has linespacing that is wayyyy too large
- 7. See if I can rebind the stuff that is under ctrl-h, ctrl-j, c-k, and c-l to be more like my vim config, where those keybinds move you to the different views you have open if your window is split

another helpful config I found recently: worker one

# 1.1 Leftover block from the original config.el file, has some helpful reminders so I'll keep it

```
;; Whenever you reconfigure a package, make sure to wrap your config in an
;; `after!' block, otherwise Doom's defaults may override your settings. E.g.
;;
  (after! PACKAGE
;;  (setq x y))
;;
;; The exceptions to this rule:
;;
  - Setting file/directory variables (like `org-directory')
;;  - Setting variables which explicitly tell you to set them before their
;;  package is loaded (see 'C-h v VARIABLE' to look up their documentation).
;;  - Setting doom variables (which start with 'doom-' or '+').
;;
;; Here are some additional functions/macros that will help you configure Doom.
;;
```

```
;; - `load!' for loading external *.el files relative to this one
;; - `use-package!' for configuring packages
;; - `after!' for running code after a package has loaded
;; - `add-load-path!' for adding directories to the `load-path', relative to
;; this file. Emacs searches the `load-path' when you load packages with
    `require' or `use-package'.
;; - `map!' for binding new keys
;;
;; To get information about any of these functions/macros, move the cursor over
;; the highlighted symbol at press 'K' (non-evil users must press 'C-c c k').
;; This will open documentation for it, including demos of how they are used.
;; Alternatively, use `C-h o' to look up a symbol (functions, variables, faces,
;; etc).
;;
;; You can also try 'gd' (or 'C-c c d') to jump to their definition and see how
;; they are implemented.
```

# 2 Config Boilerplate

### 2.1 Telling Emacs who I am (they are in my skin)

#### 2.1.1 Cache and such?

#### 2.1.2 Epic Sauce Defaults

Its stupid to me that doom wont start in fullscreen by default

```
(add-to-list 'default-frame-alist '(width . 92))
(add-to-list 'default-frame-alist '(height . 40))
```

if you for some unholy reason want to split the window to the left, or above when there's only one window open, you're a psychopath here, I am setting things up to NOT do that

```
(setq evil-vsplit-window-right t
    evil-split-window-below t)
```

frame title stuff, stolen straight from that second config thing I found, looks interesting, might keep, might not

#### 2.1.3 Setting up the custom-file (to be used sparingly)

```
(setq-default custom-file (expand-file-name ".custom.el" doom-private-dir))
(when (file-exists-p custom-file)
  (load custom-file))
```

t

Prompting for which buffer to open just a nice little QOL thing

```
(defadvice! prompt-for-buffer (&rest _)
  :after '(evil-window-split evil-window-vsplit)
  (consult-buffer))
```

#### 2.1.4 Window Rotation

good ol keybinds and such

```
(map! :map evil-window-map
    "SPC" #'rotate-layout
    ;; Navigation
    "<left>" #'evil-window-left
    "<down>" #'evil-window-down
    "<up>" #'evil-window-up
    "<right>" #'evil-window-right
    ;; Swapping windows
    "C-<left>" #'+evil/window-move-left
    "C-<down>" #'+evil/window-move-down
    "C-<up>" #'+evil/window-move-up
    "C-<right>" #'+evil/window-move-right)

(setq evil-vsplit-window-right t
    evil-split-window-right t
    evil-split-window-below t)
  (defadvice! prompt-for-buffer (&rest _)
    :after '(evil-window-split evil-window-vsplit)
```

# 2.2 Hippie Expand stuff

```
(global-set-key [remap dabbrev-expand] #'hippie-expand)
(setq hippie-expand-try-functions-list
   '(try-complete-file-name-partially
        try-expand-all-abbrevs
        try-expand-list
        try-expand-dabbrev
        try-expand-dabbrev-all-buffers
        try-expand-dabbrev-from-kill
        try-expand-line
        try-complete-lisp-symbol-partially
        try-complete-lisp-symbol))
```

# 3 Looks

I intend to configure the overal look and feel of my emacs configuration here, as well as any packages/modules that would affect how it looks and feels I.E

To See stuff responsible for org mode look and feel, see:

#### 3.1 Font!

```
(add-to-list 'default-frame-alist '(font . "JetBrains Mono-15"))
(setq-default line-spacing 0.05)
```

[?:?[=+>] 0 font-shape-gstring]

#### 3.2 Theme!

```
(setq doom-theme 'doom-gruvbox doom-themes-treemacs-enable-variable-pitch nil)
```

### 3.3 Action! Variables relevant to look and feel!

```
(blink-cursor-mode -1)
(column-number-mode t)
(transient-mark-mode t)
```

#### 3.4 Doom Modeline

#### 3.5 Startup Screen

this one is gonna be pretty long to configure, but it's largely cause I've lifted a hefty chunk of code that will add silly/stupid splash phrases to the startup screen

#### 3.5.1 Splash-Phrase Tomfoolery

# Setting Up The Source Folder

```
(defvar splash-phrase-source-folder
  (expand-file-name "misc/splash-phrases" doom-private-dir)
  "A folder of text files with a fun phrase on each line.")
```

#### Actually getting the splash-phrases from the source folder

# No Caching Here

# Some Functions

```
(defvar splash-phrase--cached-lines nil)
```

Randomly choosing the Splash Phrase (and making some custom variable hold that value)

### Picking A Set From The Folder

```
(+doom-dashboard-reload t))
```

or allowing the user to choose one explicitly:

#### Getting One From A File

#### Getting The Phrase

```
(defun splash-phrase (&optional set)
  "Construct a splash phrase from SET. See `splash-phrase-sources'."
  (mapconcat
  #'splash-phrase-get-from-file
  (cdr (assoc (or set splash-phrase-set) splash-phrase-sources))
    " "))
```

#### Making it all Look Pretty

```
(insert (splash-phrase))
  (setq fill-column (min 70 (/ (* 2 (window-width)) 3)))
  (fill-region (point-min) (point-max))
   (buffer-string))
  "\n")
  "\n")
```

#### Inserting the (now beautified) Splash Phrase into the Dashboard

```
(defun splash-phrase-dashboard-insert ()
  "Insert the splash phrase surrounded by newlines."
  (insert "\n" (splash-phrase-dashboard-formatted) "\n"))
```

#### 3.5.2 TODO Configuring the Dashboard

uhhh.... uhhhhmmmmm

#### 3.6 Centaur Tabs

I still have little to no clue how emacs window management works

#### 3.7 Info-Colors

```
(use-package! info-colors
:commands (info-colors-fontify-node))
```

#### 3.8 Transparency Shenaninigans

in newer versions of emacs they seem to have added the functionality to have a transparent window. I typically dont mess around with transparent windows but they can be nice to have on occasion. Here I am going to mess around and see if the functionality is worthwile, as well as possibly add a function that lets me update the value in place/toggle it

```
(defvar my-window-alpha 100
"I like my window transparency opaque by default")
(defun kb/toggle-window-transparency ()
"Toggle transparency."
  (interactive)
  (let ((alpha-transparency 0))
        (pcase (frame-parameter nil 'alpha-background)
```

```
(alpha-transparency (set-frame-parameter nil 'alpha-background 100))
  (t (set-frame-parameter nil 'alpha-background alpha-transparency)))))
(global-set-key (kbd "<f12>") 'kb/toggle-window-transparency)
```

# 4 Configuring Plugins (Misc)

# 4.1 Which-Key

it's like the one from neovim? (or is it the other way around?)

```
(after! which-key
  (setq which-key-idle-delay 0.2))

(after! which-key
  (pushnew!
    which-key-replacement-alist
    '(("". "\\^+?evil[-:]?\\(?:a-\\)?\\(.*\\)") . (nil . "\\1"))
    '(("\\`g s" . "\\`evilem--?motion-\\(.*\\)") . (nil . "\\1"))
    ))
(setq which-key-allow-multiple-replacements t)
```

#### 4.2 TODO Elcord

everyone MUST KNOW I'M USING EMACS (as well as vim)

```
(use-package! elcord
  :commands elcord-mode
  :config
  (setq elcord-use-major-mode-as-main-icon t))
```

#### 4.3 Mixed Pitch

# 4.3.1 Setting the Variable-Pitch Serrif Font

(lifted straight from the tecosaur config)

#### 4.4 Persp Mode

This is largely for session management

#### 4.5 WriteWroom

```
(defvar +zen-serif-p t
  "Whether to use a serifed font with `mixed-pitch-mode'.")
(defvar +zen-org-starhide t
  "The value `org-modern-hide-stars' is set to.")

(after! writeroom-mode
  (defvar-local +zen--original-org-indent-mode-p nil)
  (defvar-local +zen--original-mixed-pitch-mode-p nil)
  (defun +zen-enable-mixed-pitch-mode-h ()
    "Enable `mixed-pitch-mode' when in `+zen-mixed-pitch-modes'."
    (when (apply #'derived-mode-p +zen-mixed-pitch-modes)
```

```
(if writeroom-mode
        (progn
(setq +zen--original-mixed-pitch-mode-p mixed-pitch-mode
          (funcall (if +zen-serif-p #'mixed-pitch-serif-mode
      (funcall #'mixed-pitch-mode (if +zen--original-mixed-pitch-mode-p 1
(defun +zen-prose-org-h ()
 "Reformat the current Org buffer appearance for prose."
          visual-fill-column-width 60
          org-adapt-indentation nil)
    (when (featurep 'org-modern)
                   ;; org-modern-star '("" "" "" "" "" "" "" "" "" "")
                   org-modern-hide-stars +zen-org-starhide)
      (org-modern-mode -1)
     +zen--original-org-indent-mode-p org-indent-mode)
(defun +zen-nonprose-org-h ()
 "Reverse the effect of `+zen-prose-org'."
 (when (eq major-mode 'org-mode)
  (when (bound-and-true-p org-modern-mode)
    (org-modern-mode -1)
      (org-modern-mode 1))
   (when +zen--original-org-indent-mode-p (org-indent-mode 1))))
(pushnew! writeroom--local-variables
          'org-modern-star
add-hook 'writeroom-mode-enable-hook #'+zen-prose-org-h)
```

# 5 Org

the swag

#### 5.1 Hooks

#### 5.1.1 Org Modern Hooks

the key to it looking **pretty** 

```
(after! org
  (use-package! org-modern
:config
(setq
  org-special-ctrl-a/e t
```

```
org-insert-heading-respect-content t
org-modern-internal-target '(" " t ""); TODO: make this not be an emoji, and
org-modern-todo t
org-modern-todo-faces
'(("TODO" :inverse-video t :inherit org-todo)
("PROJ" :inverse-video t :inherit +org-todo-project)
 ("STRT" :inverse-video t :inherit +org-todo-active)
("[-]" :inverse-video t :inherit +org-todo-active)
("HOLD" :inverse-video t :inherit +org-todo-onhold)
 ("WAIT" :inverse-video t :inherit +org-todo-onhold)
 ("[?]" :inverse-video t :inherit +org-todo-onhold)
 ("KILL" :inverse-video t :inherit +org-todo-cancel)
("NO" :inverse-video t :inherit +org-todo-cancel))
org-modern-footnote (cons nil (cadr org-script-display))
org-modern-block-name
   ("quote" "" "")
   ("export" "" ""))
 org-modern-progress nil
 org-modern-star '("" "" "" "" "" "" "" "")
         ("author" . "")
("email" . #("" 0 1 (display (raise -0.14))))
         ("property" . "")
("options" . "")
         ("startup" . "")
("macro" . "")
("bind" . #("" 0 1 (display (raise -0.1))))
          ("bibliography" . "")
          ("print_bibliography" . #("" 0 1 (display (raise -0.1))))
          ("cite_export" . "")
          ("print_glossary" . #("" 0 1 (display (raise -0.1))))
          ("glossary_sources" . #("" 0 1 (display (raise -0.14))))
          ("include" . "")
("setupfile" . "")
          ("html_head" . "")
          ("latex_class_options" . #("" 1 2 (display (raise -0.14))))
          ("latex_header" . "")
          ("beamer_theme" . "")
          ("beamer_color_theme" . #("" 1 2 (display (raise -0.12))))
```

```
("beamer_font_theme" . "")
    ("beamer_header" . "")
    ("beamer" . "")
    ("attr_latex" . "")
    ("attr_html" . "")
    ("call" . #("" 0 1 (display (raise -0.15))))
    ("name" . "")
    ("header" . ">")
    ("caption" . "")
    ("results" . "")))
(custom-set-faces! '(org-modern-statistics :inherit
    → org-checkbox-statistics-todo)))
)
(after! org (add-hook 'org-mode-hook #'org-modern-mode))
```

# 5.2 Org Variables

```
(use-package! org
:config
(setq org-fontify-quote-and-verse-blocks t
org-highlight-latex-and-related '(native script entities)
org-list-demote-modify-bullet '(("+" . "-") ("-" . "+") ("*" . "+") ("1." .

'a.")))
;(setq org-export-directory "~/org/exported")

(require 'org-src)
(add-to-list 'org-src-block-faces '("latex" (:inherit default :extend t))))
  (custom-set-faces!
   `((org-quote)
        :foreground ,(doom-color 'blue) :extend t)
        `((org-block-begin-line org-block-end-line)
        :background ,(doom-color 'bg)))
;; Change how LaTeX and image previews are shown
  (setq org-highlight-latex-and-related '(native entities script)
        org-image-actual-width (min (/ (display-pixel-width) 3) 800))
```

#### 5.3 Look and Feel

#### 5.3.1 Custom Faces

Using medium weights and stuff for our headers, as well as making them larger

```
(after! org-mode
  (custom-set-faces!
  '((org-document-title)
    :foreground ,(face-attribute 'org-document-title :foreground)
    :height 2.0
    :weight bold
    )
  '((org-level-1)
    :height 1.7
    :weight medium
```

```
:foreground ,(face-attribute 'outline-1 :foreground)
)
'((org-level-2)
:height 1.6
:weight medium
:foreground ,(face-attribute 'outline-2 :foreground)
)
'((org-level-3)
:height 1.5
:weight medium
:foreground ,(face-attribute 'outline-3 :foreground)
)
'((org-level-4)
:height 1.4
:weight medium
:foreground ,(face-attribute 'outline-4 :foreground)
)
'((org-level-5)
:height 1.3
:weight medium
:foreground ,(face-attribute 'outline-5 :foreground)
)
'((org-level-6)
:height 1.2
:weight medium
:foreground ,(face-attribute 'outline-6 :foreground)
)
'((org-level-7)
:height 1.1
:weight medium
:foreground ,(face-attribute 'outline-7 :foreground)
)
'((org-level-7)
:height 1.1
:weight medium
:foreground ,(face-attribute 'outline-7 :foreground)
)
```

# 5.3.2 Org-Ellipsis

```
:properties ""
:end ""
:priority_a #("" 0 1 (face nerd-icons-red))
:priority_b #("" 0 1 (face nerd-icons-orange))
:priority_c #("" 0 1 (face nerd-icons-yellow))
:priority_d #("" 0 1 (face nerd-icons-green))
:priority_e #("" 0 1 (face nerd-icons-blue)))))
```

# 5.4 Keybind

#### 5.4.1 TODO General

#### 5.4.2 A silly little keybind idea

open up a custom little swag baby gangster type thing whenever I hit a keybind while in a src block to enter a temp buffer

#### 5.4.3 Spell-Fu

### 5.4.4 Org-Appear

# $\overline{5.5}$ Babel

#### 5.5.1 Default Header Args

```
(setq org-babel-default-header-args
   '((:session . "none")
        (:results . "replace")
        (:exports . "code")
        (:cache . "no")
        (:noweb . "no")
        (:hlines . "yes")
        (:tangle . "yes")
        (:comments . "link")))
```

# 5.5.2 Load Languages:

```
(org-babel-do-load-languages
  'org-babel-load-languages
  '((dot . t)
        '(emacs-lisp . t)
        '(mips . t)
        '(python . t)
        '(latex . t)
        '(rust . t)
        '(C . t)
        '(cpp . t)))

(require 'org)
(require 'ob-C)
```

# 5.6 Org-Latex

```
(add-hook 'org-mode-hook 'turn-on-org-cdlatex)
(defadvice! +org-edit-latex-env-after-insert-a (&rest _)
    :after #'org-cdlatex-environment-indent
    (org-edit-latex-environment))

(setq org-highlight-latex-and-related '(native script entities))
(require 'org-src)
(add-to-list 'org-src-block-faces '("latex" (:inherit default :extend t)))
(setq org-latex-preview-preamble
```

```
(concat
  "\n% Custom font\n\\usepackage{arev}\n\n"
  ;<<grab("latex-maths-conveniences")>>))
))
```

Defining our font size:

```
;; Calibrated based on the TeX font and org-buffer font.
(plist-put org-format-latex-options :zoom 1.93)
(after! org (plist-put org-format-latex-options :scale 2.0))
```

### 5.7 Org-Roam

```
(after! org
  (setq org-roam-directory "~/org/roam/")
  (setq org-roam-completion-everywhere t))
```

#### 5.7.1 **TODO** Modeline something something

### 5.7.2 Yasssss

I don't understand this plugin as much as I should thh

#### Src-Header stuff

#### More Src-Header Stuff

```
(defun +yas/org-prompt-header-arg (arg question values)
  "Prompt the user to set ARG header property to one of VALUES with QUESTION.
The default value is identified and indicated. If either default is selected,
or no selection is made: nil is returned."
  (let* ((src-block-p (not (looking-back "^#\\+property:[ \t]+header-args:.*"
  (default
            (cdr (assoc arg
                        (if src-block-p
                          (nth 2 (org-babel-get-src-block-info t))
(org-babel-merge-params
                          org-babel-default-header-args
                           (let ((lang-headers
                                  \hookrightarrow "org-babel-default-header-args:"
                                                  (+yas/org-src-lang)))))
                             (when (boundp lang-headers) (eval lang-headers
         default-value)
    (setq values (mapcar
                  (lambda (value)
  (if (string-match-p (regexp-quote value) default)
                         (setq default-value
                                           'font-lock-doc-face)))
                      value))
                  values))
    (let ((selection (consult--read values :prompt question :default
     → default-value)))
                   (string= "" selection))
        selection))))
```

#### Yas Src Blocks

# Last Lang Used

```
(defun +yas/org-last-src-lang ()
  "Return the language of the last src-block, if it exists."
  (save-excursion
    (beginning-of-line)
```

```
(when (re-search-backward "^[ \t]*#\\+begin_src" nil t)
  (org-element-property :language (org-element-context)))))
```

#### Most Common Language

# 5.8 Org-Plot

tecosaur has a nice thing that sets plot to use the same colors

```
(defvar +org-plot-term-size '(1050 . 650)
   "The size of the GNUPlot terminal, in the form (WIDTH . HEIGHT).")

(after! org-plot
   (defun +org-plot-generate-theme (_type)
        "Use the current Doom theme colours to generate a GnuPlot preamble."
        (format "
        fgt = \"textcolor rgb '%s'\" # foreground text
        fgal = \"linecolor rgb '%s'\" # foreground alt text
        fgl = \"linecolor rgb '%s'\" # foreground line
        fgal = \"linecolor rgb '%s'\" # foreground alt line

# foreground colors
        set border lc rgb '%s'
# change text colors of tics
        set xtics @fgt
        set ytics @fgt
# change text colors of labels
        set title @fgt
        set xlabel @fgt
        set ylabel @fgt
# change a text color of key
```

```
set linetype 2 lw 2 lc rgb '%s' # blue set linetype 3 lw 2 lc rgb '%s' # green set linetype 4 lw 2 lc rgb '%s' # magenta
set linetype 5 lw 2 lc rgb '%s' # orange
set linetype 6 lw 2 lc rgb '%s' # yellow
set linetype 7 lw 2 lc rgb '%s' # teal
# border styles
# palette
set palette maxcolors 8
set palet
1 '%s',\
2 '%s',\
3 '%s',\
4 '%s',\
6 '%s',\
7 '%s')
                 (doom-color 'fg)
                 (doom-color 'fg)
(doom-color 'fg-alt)
                 (doom-color 'blue)
(doom-color 'green)
(doom-color 'magenta)
                 (doom-color 'yellow)
(doom-color 'teal)
                 (doom-color 'green)
(doom-color 'magenta)
                 (doom-color 'teal)
                 (doom-color 'violet)))
   (defun +org-plot-gnuplot-term-properties (_type)
      (format "background rgb '%s' size %s,%s"
                 (doom-color 'bg) (car +org-plot-term-size) (cdr
                   → +org-plot-term-size))
    (setq org-plot/gnuplot-script-preamble #'+org-plot-generate-theme)
```

```
(setq org-plot/gnuplot-term-extra #'+org-plot-gnuplot-term-properties))
```

# 5.9 Exporting

#### 5.9.1 Org Export Backends:

yanked this from my .custom thing cause I want it to setup here

```
(after! org
  (setq org-export-backends '(ascii beamer html icalendar latex man md odt))
)
```

#### 5.9.2 Latex

### Compiling

```
("\\subsubsection{%s}" . "\\subsubsection*{%s}")
("\\paragraph{%s}" . "\\paragraph*{%s}")
("\\subparagraph{%s}" . "\\subparagraph*{%s}")))
                           ("\\section{%s}" . "\\section*{%s}")
("\\subsection{%s}" . "\\subsection*{%s}")
                           ("\subsubsection*{%s}" . "\subsubsection*{%s}")
                           ("\\paragraph{%s}" . "\\paragraph*{%s}")
                           ("\\subparagraph{\%s}" . "\\subparagraph*{\%s}")))
     (add-to-list 'org-latex-classes
                        '("koma-article" "\\documentclass[11pt]{scrartcl}"
                           ("\\section{\%s\" . "\\section*{\%s\")
("\\subsection{\%s\" . "\\subsection*{\%s\")
                           ("\\subsection{\ks\}" . "\\subsection*{\ks\}")
("\\paragraph{\ks\}" . "\\paragraph*{\ks\}")
("\\subparagraph{\ks\}" . "\\subparagraph*{\ks\}")))
     (add-to-list 'org-latex-classes
                        '("koma-report" "\\documentclass[11pt]{scrreprt}"
("\\part{%s}" . "\\part*{%s}")
                           ("\part{\ks\" . "\part*{\ks\")
("\chapter{\ks\" . "\chapter*{\ks\")
("\section{\ks\" . "\subsection*{\ks\")
("\subsection{\ks\" . "\subsubsection*{\ks\"))
("\subsubsection{\ks\" . "\subsubsection*{\ks\")))
     (add-to-list 'org-latex-classes
                        '("koma-book" "\\documentclass[11pt]{scrbook}"
("\\part{%s}" . "\\part*{%s}")
("\\chapter{%s}" . "\\chapter*{%s}")
("\\section{%s}" . "\\section*{%s}")
                           ("\\subsection{%s}" . "\\subsection*{%s}")
("\\subsubsection{%s}" . "\\subsubsection*{%s}"))))
(after! org
   ;; Customize table of contents style
  (setq org-latex-custom-id '("\\usepackage{tocloft}"
                                           "\\setlength{\\cftbeforesecskip}{1ex}"
                                           "\\setlength{\\cftbeforesubsecskip}{0.5ex}"
                                           "\\setlength{\\cftbeforesubsubsecskip}{0.5ex}")))
  (setq common-toc-style '("\\usepackage{tocloft}"
                                       "\\setlength{\\cftbeforesecskip}{1ex}"
                                       "\\setlength{\\cftbeforesubsecskip}{0.5ex}"
                                       "\\setlength{\\cftbeforesubsubsecskip}{0.5ex}"
                                       → "\tableofcontents\thispagestyle{empty}\vspace*{\fill}\clearpage")))
     (let ((class-name (car class))
              (class-content (cdr class)))
        (setcdr class (append class-content common-toc-style))))
```

trying to get org to export to a default directory by default

**Functions?** not sure how to categorize these, but all of the following is taken from the tecosaur emacs config

```
(defun +org-export-latex-fancy-item-checkboxes (text backend info)
  (when (org-export-derived-backend-p backend 'latex)
    (replace-regexp-in-string
     "\\\item\\[{$\\\\\(\\w+\\)$}\\]"
     (lambda (fullmatch)
```

#### Cover Pages

```
(10.49,8.18) and (11.96,10.38) .. (12.12,11.15) .. controls (12.12,11.15) and (14.00,9.84) .. (15.36,11.85) .. controls (16.58,11.53) and (17.40,12.07) .. (18.46,11.69) .. controls (19.10,11.41) and (21.79,11.58) .. (20.79,13.08) .. controls
         (21.44,15.60) and (21.04,15.79) .. (20.55,15.44) .. controls (19.45,15.64) and (18.36,15.55) .. (17.83,15.59) .. controls (16.65,15.76) and (15.67,16.38) .. (15.67,16.38) .. controls
         (14.70,18.69) and (14.76,19.32) .. (15.50,21.32) .. controls (15.76,22.37) and (16.54,24.00) .. (16.15,24.00) -- cycle(7.83,16.74) .. controls (6.83,15.71) and (5.72,15.70) .. (4.05,15.42) .. controls
        (7.83,16.74) -- cycle;
\\end{lrbox}
\\makeatletter
\\g@addto@macro\\tableofcontents{\\clearpage}
  \\thispagestyle{empty}
  \hyphenpenalty=10000 % hyphens look bad in titles
  \\renewcommand{\\baselinestretch}{1.1}
  \\NewCommandCopy{\\oldtoday}{\\today}
  \\renewcommand{\\today}{\\LARGE\\number\\year\\\\\large%

→ Jul\\or Aug\\or Sep\\or Oct\\or Nov\\or Dec\\fi

  \\begin{tikzpicture}[remember picture,overlay]
     %% Background Polygons %%
     {\\node[rounded corners,black!3.5,draw,regular polygon,regular polygon]

    sides=6, minimum size=\\i cm,ultra thick] at ($(current)

→ sides=6, minimum size=\\i cm,ultra thick] at ($(current page.north)

     \\node[rounded corners,fill=black!4,regular polygon,regular polygon
     \hookrightarrow sides=6, minimum size=5.5 cm,ultra thick] at ($(current page.north
       west)+(2.5,2)$) {};
```

```
→ sides=6, minimum size=\\i cm,ultra thick] at ($(current page.north)
       east)+(0,-8.5)$) {};}
   \\node[fill=black!3,rounded corners,regular polygon,regular polygon
   \hookrightarrow sides=6, minimum size=2.5 cm,ultra thick] at ($(current page.north
   {\\node[black!3,rounded corners,draw,regular polygon,regular polygon

    sides=6, minimum size=\\i cm,ultra thick] at ($(current page.south))

→ sides=6, minimum size=2 cm,ultra thick] at ($(current page.south))

   \\node[align=center, scale=1.4] at ($(current page.south)
   \\node[left, align=right, black, text width=0.8\\paperwidth, minimum
   → height=3cm, rounded corners,font=\\Huge\\bfseries] at ($(current)
       page.north east)+(-2,-8.5)$)
   \\node[left, align=right, black, text width=0.8\\paperwidth, minimum
   → height=2cm, rounded corners, font=\\Large] at ($(current page.north)
   \\node[align=center,rounded corners,fill=black!3,text=black,regular
    → polygon,regular polygon sides=6, minimum size=2.5 cm,inner sep=0,
       font=\Large\\bfseries ] at ($(current page.west)+(2.5,-4.2)$)
 \\clearpage}
 "LaTeX preamble snippet that sets \\maketitle to produce a cover page.")
(eval '(cl-pushnew '(:latex-cover-page nil "coverpage" org-latex-cover-page)
                  (org-export-backend-options (org-export-get-backend
(defun org-latex-cover-page-p (
 "Whether a cover page should be used when exporting this Org file."
             (delq nil
                     (lambda (opt-line)
                      (plist-get (org-export--parse-option-keyword opt-line
                          'latex) :latex-cover-page))
            org-latex-cover-page)

    org-latex-cover-page-wordcount-threshold) t))

   (_ nil)))
```

{\\node[rounded corners,black!2,draw,regular polygon,regular polygon]

### 5.10 Org-Agenda and Dailies

#### 5.10.1 Define My Daily Template:

#### TODO implement function that will link to last daily node

search through roam/dailies directory  $\rightarrow$  find most recently created node (by date) and insert link to that node at the top of the created daily file

Also, fix this such that it actually works, cause I had to open my config and c-c-c-c this to make it work

```
:if-new (file+head+olp "%<%Y-%m-%d>.org" ,head ("Maybe Do

→ Today"))
:immediate-finish t))))
```

Hello? I would like this to work, but honestly don't know if it will work all to well for me, lets see I guess

```
;; Set up org-agenda-files to include Org Roam dailies directory
(setq org-agenda-files (append org-agenda-files (list "~/org/roam/daily")))
```

#### 5.10.2 Defining Some Custom Commands

```
\rightarrow will work, and only have a loose Idea as to how it should work (defun as/org-roam-today-mk-agenda-link ()
  (let* ((marker (or (org-get-at-bol 'org-marker)
                        (org-agenda-error)))
          (buffer (marker-buffer marker))
          (pos (marker-position marker)))
    (with-current-buffer buffer (save-excursion
         (goto-char pos)
         (org-roam-dailies-capture-today)))))
(defun as/get-daily-agenda (&optional date)
  "Return the agenda for the day as a string."
  (interactive)
(let ((file (make-temp-file "daily-agenda" nil ".txt")))
    (org-agenda nil "d" nil)
    (when date (org-agenda-goto-date date))
    (org-agenda-write file nil nil "*Org Agenda(d)*")
      (kill-line 2)
         (replace-match "- " nil nil))
```

#### 5.10.3 Tell Org-Agenda About The Custom Commands

# 6 Language Stuff

doom emacs is super nice in having a lot of easy configuration found in the file, but for anything that doesn't come with doom, I likely have to add it to the file, and handle it here either that, or just specify options for stuff that needs it

# 6.1 Flycheck

```
(use-package! flycheck
  :ensure t
  :defer t
  :diminish
  :init (global-flycheck-mode))
(ispell-change-dictionary "en_US" t)
```

# 6.2 LSP Stuff in particular

# 6.2.1 File Templates:

```
(set-file-template! "\\.pro" :trigger "__" :mode 'prolog-mode)
```

#### 6.2.2 Prolog

I've been using prolog for some classes, and am honestly enjoying using the language, it's growing on me for sure. What's nice is that Prolog is largely a GNU project, and so it's already included in base emacs with a prolog-mode. Just needs some configuring, and an lsp backend to make things real nice

#### Hooks and such

```
(add-hook 'find-file-hook #'my-prolog-mode-setup)

(defun my-prolog-mode-setup ()
```

#### 6.3 TODO Lexic

# lsfdkjsdflksajdlkjafsd

# 6.4 Spell-Checking

#### 6.4.1 Abbrev

gangster swagger

```
(setq-default abbrev-mode t)

(defvar abbrev-fn (expand-file-name "misc/abbrev.el" doom-user-dir))
(setq abbrev-file-name abbrev-fn)
```

#### 6.4.2 Jinx

# 6.5 LATEX

```
(after! cdlatex
         ("equation*" "\begin{equation*}\n?\n\\end{equation*}" nil))
  cdlatex-math-symbol-alist
                                       "\\inf"))
                          "\\sqrt{?}"
                          "\\sqrt[3]{?}" ""
           ("\\kappa"
                                       "\\lim"))
    (?m
                          "\\partial" "\\dim"))
                          "\\nabla" "\\deg"))
          ("\\Phi"))
          ("\\cdot" "\\dots"))
  cdlatex-math-modify-alist
    (?B "\\mathbb"
                                             nil nil)
```

# 6.6 GraphViz

# 6.7 Snippets

I use yasnippets like a good sheeple

```
(setq yas-triggers-in-field t)
  auto expanding snippets
(use-package! aas
  :commands aas-mode)
```

# 7 Unsorted Config (temporary)

Unsorted config as I fix my fuckups

```
;;"A variable-pitch face with serifs."
;;;group 'basic-faces)
;;
;;(defcustom variable-pitch-serif-font (font-spec :family "serif")
;;"The font face used for `variable-pitch-serif'."
;;:group 'basic-faces
;;:set (lambda (symbol value)
;;(set-face-attribute 'variable-pitch-serif nil :font value)
;;(set-default-toplevel-value symbol value)))
;;(setq org-pretty-mode t)

;;(after!
;;:and (org flycheck)
;;(defconst flycheck-org-lint-form
;; (flycheck-prepare-emacs-lisp-form
;; (require 'org)
;; (require 'org-lint)
;; (require 'org-attach)
```

```
;; (cl-pushnew '(:latex-font-set nil "fontset" nil)
;; (org-export-backend-options (org-export-get-backend

→ 'latex)))))
```