# Contents

TOL		3
		3
		4
		4
		4
		5
		6
		6
		7
		ľ
		7
		7
		8
		8
		8
		8
		9
	3.5.2 <b>TODO</b> Configuring the Dashboard	11
		11
	Info-Colors	11
		11
	figuring Plugins (Misc) 1	<b>12</b>
		12
		12
	Mixed Pitch	12
		12
	Persp Mode	13
	WriteWroom	13
		L <b>4</b>
		14
	Org Variables	15
		15
		15
	5.3.2 Org-Ellipsis	16
		17
		17
		17
		17
		18
		า 1 ฉ

										18
										18
										18
										19
										19
										21
										$\frac{-3}{29}$
										01
										31
										31
										<b>31</b> 31
										31 31 31
										31 31 31 31
										31 31 31 31 31
										31 31 31 31 31 32
										31 31 31 31 31 32 33
										31 31 31 31 31 32 33
										31 31 31 31 32 33 33 33
										31 31 31 31 32 33 33 33
										31 31 31 31 32 33 33 33 33
										31 31 31 31 32 33 33 33 33

# 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 75))
        (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
    (setg +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-adapt-indentation
          'org-modern-star
add-hook 'writeroom-mode-enable-hook #'+zen-prose-org-h)
```

# 5 Org

the swag  $\,$ 

### 5.1 Hooks

```
(defun nicer-org ()
    (progn
    (+org-pretty-mode 1)
    (mixed-pitch-mode 1)
    (h1-line-mode -1)
    (display-line-numbers-mode -1)
        (org-modern-mode -1)
        (org-modern-mode 1)
    ; (olivetti-mode 1)
```

```
;(org-Num-mode 1)
;(org-superstar-mode -1)
; (org-indent-mode -1)
))
(add-hook! 'org-mode-hook #'nicer-org)
(add-hook! 'org-mode #'nicer-org); NOTE: May be brokie
```

# 5.2 Org Variables

### 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

```
:ellipses "..."
:arrow_right "→"
:arrow_left "←"
:arrow_lr ""
: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 Keybinds

#### 5.4.1 TODO General

```
(map! :after org
    :map org-mode-map
    :localleader
    :desc "Org-Mark-Ring jump" "gj" #'org-mark-ring-goto
    )
(map! :after org
    :map org-mode-map
    :localleader
    :desc "Org-Mark-Ring Save" "gs" #'org-mark-ring-push)
```

# 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

```
(defun open-temp-buffer-src ()
"Open Temporary Buffer When Editing Src Blocks"
(interactive)
(org-edit-src-code)
)

(map! :after org
    :map org-mode-map
    :localleader
    :desc "Org Set Property" "O" #'org-set-property)
(map! :after org
    :map org-mode-map
    :localleader
    :n "o" #'org-edit-src-code)
```

#### 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 . "no")
        (:tangle . "no")
        (:comments . "link")))
```

## 5.5.2 Load Languages:

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

# 5.6 Org-Latex

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

```
(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
                           (+yas/org-src-lang)))))
                      (when (boundp lang-headers) (eval lang-headers
    default-value)
(setq values (mapcar
                    (value)
               (if (string-match-p (regexp-quote value) default)
                  (setq default-value
                                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."
fgt = \"textcolor rgb '%s'\" # foreground text
fgat = \"textcolor rgb '%s'\" # foreground alt text
fgl = \"linecolor rgb '%s'\" # foreground line
fgal = \"linecolor rgb '%s'\" # foreground alt line
# foreground colors
# change text colors of tics
set title @fgt
set ylabel @fgt
# change a text color of key
set key @fgt
# line styles
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
set linetype 8 lw 2 lc rgb '%s' # violet
# palette
set palet
1 '%s',\
2 '%s',\
3 '%s',\
4 '%s',\
6 '%s',\
7 '%s')
                 (doom-color 'fg-alt)
                 (doom-color 'fg-alt)
(doom-color 'fg)
                 (doom-color 'red)
                 (doom-color 'green)
(doom-color 'magenta)
                 (doom-color 'orange)
                 (doom-color 'violet)
                 (doom-color 'red)
                 (doom-color 'green)
(doom-color 'magenta)
    (defun +org-plot-gnuplot-term-properties (_type)
                 (doom-color 'bg) (car +org-plot-term-size) (cdr
                 \rightarrow +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

```
(use-package! ox-latex
  :config
(setq org-export-headline-levels 8
        '(("AUTO" "inputenc" t ("pdflatex" "lualatex"))
("T1" "fontenc" t ("pdflatex"))
           → ("activate={true,nocompatibility},final,tracking=true,kerning=true,spacing=true,factor=1100,stretc
           "microtype" nil ("pdflatex"))
           → ("activate={true,nocompatibility},final,tracking=true,factor=1100,stretch=10,shrink=10"
           \  \, \hookrightarrow \  \, (\texttt{"protrusion=\{true,nocompatibility}\},\texttt{final,factor=}1100,\texttt{stretch=}10,\texttt{shrink=}10")}
           "microtype" nil ("xelatex"))
("dvipsnames, svgnames" "xcolor" nil) ; Include xcolor package
           "scrextend" nil) ; Include scrextend package ("colorlinks=true, citecolor=BrickRed, urlcolor=DarkGreen"
  (add-to-list 'org-latex-classes
                '("koma-letter" "\\documentclass[11pt]{scrletter}"
                  ("\\section{%s}" . "\\section*{%s}")
                  ("\\subsection{%s}" . "\\subsection*{%s}")
```

```
(after! ox-latex
  (setq org-latex-src-block-backend 'engraved))

(use-package! ox-chameleon
  :after ox
  :config
  (setq! ox-chameleon-engrave-theme 'doom-gruvbox))
```

smart emacs guy says latexm<br/>k+biber is better so uhh, whatever you say boss!

```
;; org-latex-compilers = ("pdflatex" "xelatex" "lualatex"), which are the

→ possible values for %latex
(setq org-latex-pdf-process '("LC_ALL=en_US.UTF-8 latexmk -f -pdf -%latex

→ -shell-escape -interaction=nonstopmode -output-directory=%f %o"))
```

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

It can also be nice to have big \chapters.

```
\RedeclareSectionCommand[afterindent=false, beforeskip=0pt, afterskip=0pt,

innerskip=0pt]{chapter}

\setkomafont{chapter}{\normalfont\Huge}
\renewcommand*{
\renewcommand*{
                                            {6pt}\
                                -0.5em
\providecolor{url}{HTML}{0077bb}
.
\providecolor{link}{HTML}{882255]
\providecolor{cite}{HTML}{999933}
\hypersetup{
 pdfauthor={%a},
 pdftitle={%t},
 pdfkeywords={%k},
 pdfsubject={%d},
 pdfcreator={%c},
 pdflang={%L},
 breaklinks=true,
 colorlinks=true,
 linkcolor=link,
 urlcolor=url,
 citecolor=cite
\urlstyle{same}
```

#### Cover Pages

```
(defvar org-latex-cover-page 'auto
   "When t, use a cover page by default.
When auto, use a cover page when the document's wordcount exceeds
`org-latex-cover-page-wordcount-threshold'.

Set with #+option: coverpage:{yes,auto,no} in org buffers.")
(defvar org-latex-cover-page-wordcount-threshold 5000
   "Document word count at which a cover page will be used automatically.
This condition is applied when cover page option is set to auto.")
(defvar org-latex-subtitle-coverpage-format
   "\\\\bigskip\n\\LARGE\\mdseries\\itshape\\color{black!80} %s\\par"
   "Variant of `org-latex-subtitle-format' to use with the cover page.")
(defvar org-latex-cover-page-maketitle
```

```
\\usetikzlibrary{shapes.geometric}
\\usetikzlibrary{calc}
\\begin{lrbox}{\\orgicon}
     \path[fill=black!6] (16.15,24.00) .. controls (15.58,24.00) and
     \hookrightarrow (11.36,18.09) and (10.17,17.83) .. (10.17,17.82) .. controls \hookrightarrow (9.94,18.75) and (9.37,19.44) .. (9.02,18.39) .. controls (8.32,16.72)
          (20.79,13.08) and (21.71,13.90) .. (21.80,13.99) .. controls (21.97,14.75) and (21.59,14.91) .. (21.47,15.12) .. controls
     → (16.65,15.76) and (15.67,16.38) ... (15.67,16.38) ... controls

→ (15.40,17.19) and (14.82,17.01) ... (14.09,17.32) ... 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)
          (2.75,15.19) and (0.39,12.97) .. (0.02,10.68) .. controls (-0.02,10.07) and (-0.06,8.50) .. (0.45,7.18) .. controls (0.94,6.05) and (1.27,5.45)
\\g@addto@macro\\tableofcontents{\\clearpage}
\\renewcommand\\maketitle{
  \\thispagestyle{empty}
  \hyphenpenalty=10000 % hyphens look bad in titles
  \\NewCommandCopy{\\oldtoday}{\\today}
  → 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
       page.west)+(2.5,-4.2)$) {} ;}
```

```
{\\node[rounded corners,black!5,draw,regular polygon,regular polygon]

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

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

        \\node[fill=black!3,rounded corners,regular polygon,regular polygon

→ sides=6, minimum size=2.5 cm,ultra thick] at ($(current page.north)
        \\foreach \\i in {21,...,3} % bottom right

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

        \\node[fill=black!3,rounded corners,regular polygon,regular polygon
         \hookrightarrow sides=6, minimum size=2 cm,ultra thick] at ($(current page.south
        \label{local_continuous} $$ \ \ \ \ (\current page.south $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$ $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$ $$ $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ $$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $$ \to  \ensuremath{ \  \  } (\current page.south $$$ $\to  \ensuremath{ \  \  } (\current page.south $$$ $\to  \ensuremath{ \  \  } (\current page.south $$\to  \  \  ) $$ $\to  \ensuremath{ \  \  } (\current page.south $\  \  ) $$ $\to  \ensuremath{ \  \  \  } (\current page.south $\  \  \  \  ) $$ $\to  \  \  ) $$ $\to  \  \  ) $$ $\to  \  \  \  \  \  ) $$ $\to  \  \  \  ) $$ $\to  \  \  \  \  ) $$ $\to  \  \  \  ) $$ $\to  \  \  \  ) $$ $\to  \  \  \  \  \  \  ) $$ $\to  \  \  \  ) $$ $\to  \  \  \  \  ) $$ $\to  \  \  \  \  ) $$ $\to  \  \  \  \  \  ) $$ $\to  \  \  \  \  \  \ ) $$ $\to  \  \  \  \  \  \  \  ) $$ $\to  \  \  \  \  \  \  \  \  \  \ ) $$ $\to  \  \  \  \  \  \ ) $$ $\to  \  \  \  \  \  \  \  \ ) $$ \to  \  \  \  \
        %% Text %%
        \\node[left, align=right, black, text width=0.8\\paperwidth, minimum
                page.north east)+(-2,-8.5)$)
        \\node[left, align=right, black, text width=0.8\\paperwidth, minimum
        \hookrightarrow height=2cm, rounded corners, font=\\Large] at ($(current page.north
        \\renewcommand{\\baselinestretch}{0.75}
        \\node[align=center,rounded corners,fill=black!3,text=black,regular
        \hookrightarrow polygon,regular polygon sides=6, minimum size=2.5 cm,inner sep=0,
               font=\Large\\bfseries ] at ($(current page.west)+(2.5,-4.2)$)
    \\let\\today\\oldtoday
    \\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
```

# 5.10 TODO Org-Modern

still need to fix this: / the key to it looking pretty

```
(use-package! org-modern
:hook (org-mode . org-modern-mode)
  org-special-ctrl-a/e t
  org-insert-heading-respect-content t
  org-modern-radio-target
  org-modern-internal-target '(" " t ""); TODO: make this not be an emoji, and
  org-modern-todo t
  '(("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)
   ("HAIT" :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
      ("example" "»-" "-«")
      ("quote" "" "")
     ("export" "" ""))
   org-modern-progress nil
   org-modern-horizontal-rule ""
```

```
org-modern-keyword
            ("subtitle" . "")
("author" . "")
("email" . #("" 0 1 (display (raise -0.14))))
("date" . "")
           ("date" . "")
("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" . "")
            ("html" . "")
("latex_class" . "")
            ("latex_class_options" . #("" 1 2 (display (raise -0.14))))
           ("latex_header_extra" . "")
("latex" . "")
("beamer_theme" . "")
            ("beamer_color_theme" . #("" 1 2 (display (raise -0.12)))) ("beamer_font_theme" . "")
            ("beamer_header" . "")
            ("beamer" . "")
            ("attr_latex" . "")
            ("call" . #("" 0 1 (display (raise -0.15))))
("name" . "")
("name" . "")
("header" . ">")
("caption" . "")
("results" . "")))
(custom-set-faces! '(org-modern-statistics :inherit

    org-checkbox-statistics-todo)))
```

# 5.11 Org-Agenda and Dailies

#### 5.11.1 Define My Daily Template:

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

```
(defun insert-previous-daily-link ()
  "Insert link to the previous daily note, if available."
  (interactive)
  (let ((prev-note (org-roam-dailies-find-previous-note)))
     (when prev-note
```

```
(insert (format "[[%s][Previous Daily Note]]\n" prev-note)))))
```

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

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")))
```

#### 5.11.2 Defining Some Custom Commands

# 5.11.3 Tell Org-Agenda About The Custom Commands

```
;; Customize the default Org agenda command to include Org Roam daily files

(setq org-agenda-custom-commands

'(("d" "Org Roam Daily Files"

((agenda "" ((org-agenda-files (list "~/org/roam/daily"))))

(function as/org-roam-today-mk-agenda-link)

(function as/get-daily-agenda)))))
```

# 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

#### 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 L<sup>A</sup>T<sub>F</sub>X

```
(after! cdlatex
  (setq cdlatex-env-alist
    '(("bmatrix" "\begin{bmatrix}\n?\n\end{bmatrix}" nil)
          ("equation*" "\begin{equation*}\n?\n\end{equation*}" nil)))
  (setq ;; cdlatex-math-symbol-prefix ?\; ;; doesn't work at the moment :(
    cdlatex-math-symbol-alist
    '( ;; adding missing functions to 3rd level symbols
        (?_ ("\downarrow" "" "\\inf"))
        (?2 ("^2" "\\sqrt{?}" "" ))
```

```
(?3 ("^3" "\\sqrt[3]{?}" "" ))
(?^ ("\\uparrow" "" "\\sup"))
(?k ("\\kappa" "" "\\ker"))
(?m ("\\mu" "" "\\lim"))
(?c ("" "\\circ" "\\cos"))
(?d ("\\delta" "\\partial" "\\dim"))
(?D ("\\Delta" "\\nabla" "\\deg"))
;; no idea why \Phi isnt on 'F' in first place, \phi is on 'f'.
(?F ("\\Phi"))
;; now just convenience
(?. ("\\cdot" "\\dots"))
(?: ("\\vdots" "\\dots"))
(?* ("\\times" "\\star" "\\ast"))
cdlatex-math-modify-alist
'(;; my own stuff
(?B "\\mathbb" nil t nil nil)
(?a "\\abs" nil t 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-face-attribute 'variable-pitch-serif nil :font value)
;;(set-default-toplevel-value symbol value)))
;;(setq org-pretty-mode t)
```