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1 Visual

1.1 Tweaks

1.1.1 Font

The best programming font I know of is Cascadia Code.

```
(setq doom-font (font-spec :family "Cascadia Code" :size 16))
(doom/reload-font)
```

1.1.2 Helm text un-enlargement

```
(setq +helm-posframe-text-scale 0)
```

1.1.3 Doom Modeline

```
(doom-modeline-mode t)
(setq doom-modeline-height 36)
```

1.2 Theme

```
(setq doom-theme 'doom-one)
(load-theme 'doom-gruvbox t)
```

1.3 Org

1.3.1 Superstar

```
(use-package! org-superstar
  :hook (org-mode . org-superstar-mode))

(after! org-superstar
  (setq org-superstar-headline-bullets-list '(9679 9673 9675))
  (setq org-superstar-item-bullet-alist '((42 . 9642) (43 . 9702) (45 . 8226)))
  (setq org-superstar-leading-bullet "-")
  (setq org-superstar-special-todo-items t)
  (org-superstar-restart))
```

1.3.2 Olivetti

```
(use-package! olivetti
  :config)
```

```
(setq olivetti-body-width '100
      olivetti-margin-width '20
      olivetti-style t)
:hook (org-mode . olivetti-mode))
```

1.3.3 Variable-pitch font

```
(use-package! org-variable-pitch
  :config
  (setq org-variable-pitch-fixed-faces
    '(org-block
      org-block-begin-line
      org-block-end-line
      org-code
      org-document-info-keyword
      org-done
      org-formula
      org-indent
      org-meta-line
      org-special-keyword
      org-table
      org-todo
      org-verbatim
      org-date
      org-drawer
      org-property-value
      org-priority
      org-hide
      org-superstar-leading
      org-ellipsis
      line-number
      org-tag
      org-target))
  :hook ((org-mode) . org-variable-pitch-minor-mode))
(set-face-attribute 'variable-pitch nil :family "Noto Serif")
```

1.3.4 Don't enable line number or hl-line-mode in org

Please stop messing with my faces and stuff I can't write this code Pl

```
(global-hl-line-mode -1)
```

```

(setq doom--hl-line-mode -1)
(global-display-line-numbers-mode -1)
(add-hook! 'prog-mode #'display-line-numbers-mode)
(add-hook! 'prog-mode #'hl-line-mode)

(remove-hook! text-mode #'display-line-numbers-mode)
(add-hook! org-mode #'(lambda () (global-display-line-numbers-mode -1)))
(add-hook! org-mode #'(lambda () (global-hl-line-mode -1)))

```

1.3.5 Large heading fonts

```

(after! org
  (let (var (heading-scale 1.25))
    (set-face-attribute 'org-level-1 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-2 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-3 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-4 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-5 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-6 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-7 nil :height heading-scale :extend t)
    (set-face-attribute 'org-level-8 nil :height heading-scale :extend t)))

```

1.3.6 Make org-ref citations look pretty

Make org-ref look pretty.

```

(use-package! org-ref-prettify
  :after org
  :hook (org-mode . org-ref-prettify-mode))

```

1.4 Word wrap

Apparently according to someone on the internet evil-better-visual-line is better than regular visual line.

```

(use-package! evil-better-visual-line
  :hook (org-mode . evil-better-visual-line-on))

```

2 Org-mode tweaks

2.1 Blank line on headlines

It's nice to have some space before and after headlines.

```
(after! org
  (setq org-blank-before-new-entry '((heading . always) (plain-list-item))
        org-ascii-headline-spacing '(1 . 2))
  (map! :map evil-org-mode-map
    :desc "<C-return>"
    :nvi "<C-return>" #'evil-org-org-insert-heading-respect-content-below))
```

2.2 Roam

Base roam package:

```
(use-package org-roam
  :hook ((after-init . org-roam-setup)
        (org-roam-backlinks-mode . visual-line-mode))
  :config
  '(org-roam-dailies-capture-templates
    '(("d" "default" entry "* %?\n
      " :target
      (file+head "%<%Y-%m-%d>.org" "#+title: %<%Y-%m-%d>
        ")
      :empty-lines-after 1
      :empty-lines-before 1)))

  (setq org-roam-capture-templates
    '(("d" "default" plain "%?" :target
      (file+head "pages/%<%Y%m%d%H%M%S>-${slug}.org" "
#+filetags:
#+title: ${title}
- Links ::

      ")
      :unnarrowed t)))
  (setq org-roam-v2-ack t)
  (setq org-roam-directory "~/notes"))
```

```

(setq org-roam-dailies-directory "journals/")
(setq org-roam-db-node-include-function
  (lambda ()
    (not (member "roam_exclude" (org-get-tags)))))
(setq org-roam-mode-section-functions
  (list #'org-roam-backlinks-section
        #'org-roam-reflinks-section
        ;; #'org-roam-unlinked-references-section
  ))
:bind (("C-c n f" . org-roam-node-find)
       ("C-c n c" . org-roam-capture)
       ("C-c n g" . org-roam-ui-mode)
       ("C-c n r" . org-roam-node-random)
       ("C-c n d" . org-roam-dailies-capture-today)
       (:map org-mode-map
        (("C-c n i" . org-roam-node-insert)
         ("C-c C-w" . org-roam-refile)
         ("C-c n o" . org-id-get-create)
         ("C-c n t" . org-roam-tag-add)
         ("C-c n a" . org-roam-alias-add)
         ("C-c n l" . org-roam-buffer-toggle)))))
(org-roam-db-autosync-mode)

```

Org-roam-bibtex:

```

(use-package! org-roam-bibtex
  :after org-roam
  :hook (org-roam-mode . org-roam-bibtex-mode)
  :config (require 'org-ref)
  (org-roam-bibtex-mode t))

```

2.3 Org-ref

```

(use-package! org-ref
  ;; :after org-cite
  :config (setq org-ref-default-bibliography "~/notes/pages/sources.bib")
  :init
  (setq bibtex-completion-bibliography "~/notes/pages/sources.bib")
  :bind ("C-c r i" . org-ref-cite-insert-helm))

```

2.4 Exporting

2.4.1 Only export the content of headlines tagged as “ignore”

```
;;; ox-extra.el --- Convenience functions for org export

;; Copyright (C) 2014 Aaron Ecay

;; Author: Aaron Ecay <aaronecay@gmail.com>

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;; along with this program. If not, see <http://www.gnu.org/licenses/>.

;;; Commentary:

;; This file contains some convenience functions for org export, which
;; are not part of org's core. Call 'ox-extras-activate' passing a
;; list of symbols naming extras, which will be installed globally in
;; your org session.
;;
;; For example, you could include the following in your .emacs file:
;;
;; (require 'ox-extra)
;; (ox-extras-activate '(latex-header-blocks ignore-headlines))
;;

;; Currently available extras:

;; - 'latex-header-blocks' -- allow the use of latex blocks, the
;; contents of which will be interpreted as #+latex_header lines
```

```
;; for export. These blocks should be tagged with #+header: :header
;; yes. For example:
;; #+header: :header yes
;; #+begin_export latex
;; ...
;; #+end_export
```

```
;; - 'ignore-headlines' -- allow a headline (but not its children) to
;; be ignored. Any headline tagged with the 'ignore' tag will be
;; ignored (i.e. will not be included in the export), but any child
;; headlines will not be ignored (unless explicitly tagged to be
;; ignored), and will instead have their levels promoted by one.
```

```
;; TODO:
;; - add a function to org-mode-hook that looks for a ox-extras local
;; variable and activates the specified extras buffer-locally
;; - allow specification of desired extras to be activated via
;; customize
```

```
;;; Code:
```

```
(require 'ox)
```

```
(eval-when-compile (require 'cl))
```

```
(defun org-latex-header-blocks-filter (backend)
```

```
  (when (org-export-derived-backend-p backend 'latex)
```

```
    (let ((positions
```

```
      (org-element-map (org-element-parse-buffer 'greater-element nil) 'export-blocks
```

```
        (lambda (block)
```

```
          (when (and (string= (org-element-property :type block) "LATEX")
```

```
                    (string= (org-export-read-attribute
```

```
                        :header block :header)
```

```
                        "yes"))
```

```
          (list (org-element-property :begin block)
```

```
                (org-element-property :end block)
```

```
                (org-element-property :post-affiliated block))))))
```

```
    (mapc (lambda (pos)
```

```
      (goto-char (nth 2 pos))
```

```
      (destructuring-bind
```

```
        (beg end &rest ignore)
```



```

(org-edit-src-find-region-and-lang)
(let ((contents-lines (split-string
                        (buffer-substring-no-properties beg end)
                        "\n")))
  (delete-region (nth 0 pos) (nth 1 pos))
  (dolist (line contents-lines)
    (insert (concat "#+latex_header: "
                    (replace-regexp-in-string "\\` *" "" line)
                    "\n"))))
;; go in reverse, to avoid wrecking the numeric positions
;; earlier in the file
(reverse positions))))

;; During export headlines which have the "ignore" tag are removed
;; from the parse tree. Their contents are retained (leading to a
;; possibly invalid parse tree, which nevertheless appears to function
;; correctly with most export backends) all children headlines are
;; retained and are promoted to the level of the ignored parent
;; headline.
;;
;; This makes it possible to add structure to the original Org-mode
;; document which does not effect the exported version, such as in the
;; following examples.
;;
;; Wrapping an abstract in a headline
;;
;;      * Abstract                                     :ignore:
;;      #+LaTeX: \begin{abstract}
;;      #+HTML: <div id="abstract">
;;
;;      ...
;;
;;      #+HTML: </div>
;;      #+LaTeX: \end{abstract}
;;
;; Placing References under a headline (using ox-bibtex in contrib)
;;
;;      * References                                     :ignore:
;;      #+BIBLIOGRAPHY: dissertation plain

```

```

;;
;; Inserting an appendix for LaTeX using the appendix package.
;;
;;      * Appendix                                :ignore:
;;      #+LaTeX: \begin{appendices}
;;      ** Reproduction
;;      ...
;;      ** Definitions
;;      #+LaTeX: \end{appendices}
;;
(defun org-export-ignore-headlines (data backend info)
  "Remove headlines tagged \"ignore\" retaining contents and promoting children.
Each headline tagged \"ignore\" will be removed retaining its
contents and promoting any children headlines to the level of the
parent."
  (org-element-map data 'headline
    (lambda (object)
      (when (member "ignore" (org-element-property :tags object))
        (let ((level-top (org-element-property :level object))
              (level-diff))
          (mapc (lambda (el)
                  ;; recursively promote all nested headlines
                  (org-element-map el 'headline
                    (lambda (el)
                      (when (equal 'headline (org-element-type el))
                        (unless level-diff
                          (setq level-diff (- (org-element-property :level el)
                                                level-top)))
                        (org-element-put-property el
                          :level (- (org-element-property :level el)
                                    level-diff))))))
                  ;; insert back into parse tree
                  (org-element-insert-before el object))
                (org-element-contents object)))
            (org-element-extract-element object)))
    info nil)
  data)

(defconst ox-extras
  '((latex-header-blocks org-latex-header-blocks-filter org-export-before-parsing-l

```

```
(ignore-headlines org-export-ignore-headlines org-export-filter-parse-tree-fun
```

"A list of org export extras that can be enabled.
Should be a list of items of the form (NAME FN HOOK). NAME is a symbol, which can be passed to 'ox-extras-activate'. FN is a function which will be added to HOOK."

```
(defun ox-extras-activate (extras)
  "Activate certain org export extras.
  EXTRAS should be a list of extras (defined in 'ox-extras') which
  should be activated."
  (dolist (extra extras)
    (let* ((lst (assq extra ox-extras))
           (fn (nth 1 lst))
           (hook (nth 2 lst)))
      (when (and fn hook)
        (add-hook hook fn))))))
```

```
(defun ox-extras-deactivate (extras)
  "Deactivate certain org export extras.
  This function is the opposite of 'ox-extras-activate'. EXTRAS
  should be a list of extras (defined in 'ox-extras') which should
  be activated."
  (dolist (extra extras)
    (let* ((lst (assq extra ox-extras))
           (fn (nth 1 lst))
           (hook (nth 2 lst)))
      (when (and fn hook)
        (remove-hook hook fn))))))
```

```
(ox-extras-activate '(ignore-headlines))
```

2.4.2 Latex Configuration

Always use these packages in latex exports.

```
(setq org-latex-default-packages-alist '(("AUTO" "inputenc" t
                                           ("pdflatex"))
                                           ("T1" "fontenc" t
                                           ("pdflatex"))
                                           (#1="" "graphicx" t))
```

```
(#1# "grffile" t)
(#1# "longtable" nil)
(#1# "wrapfig" nil)
(#1# "rotating" nil)
("normalem" "ulem" t)
(#1# "amsmath" t)
(#1# "textcomp" t)
(#1# "amssymb" t)
(#1# "capt-of" nil)
(#1# "biblatex" nil)
(#1# "hyperref" nil)))
```

These are necessary for something, I'm not sure why but I'll keep them anyway.

```
(require 'org-ref-scopus)
(require 'org-ref-pubmed)
(require 'org-ref-sci-id)
```

CSL styles are found under `file:///home/jadench/.emacs.doom/.local/straight/repos/org-ref/citeproc/csl-styles/` Possibilities are:

- `elsevier-with-titles.csl`
- `chicago-author-date-16th-edition.csl`
- `apa-5th-edition.csl`
- `elsevier-harvard.csl`
- `apa-numeric-superscript-brackets.csl`

I also have my own styles in `file:///home/jadench/.emacs.doom/tex/csl/`. More can be found online at <https://github.com/citation-style-language/styles>

```
(setq org-ref-csl-default-style "~/emacs.doom/tex/csl/association-for-computing-machin
```

Set up the default bibliography and export variables:

```
(setq org-ref-default-bibliography "~/notes/pages/sources.bib")
(setq reftex-default-bibliography "~/notes/pages/sources.bib")
(setq org-export-with-broken-links t)
```

```
(setq latex-run-command "pdflatex")
(setq bibtex-dialect 'biblatex)
(setq org-latex-pdf-process
'("%latex -shell-escape -interaction nonstopmode -output-directory %o %b" "biber %b" "r"))
```

2.4.3 Pandoc

```
(use-package! ox-pandoc)
```

2.5 Org-noter

```
(use-package! org-noter-pdftools)
(use-package! org-noter
:config
(require 'org-noter-pdftools))
```

2.6 Scientific Writing

2.6.1 Bibliography stuff

```
(setq
bibtex-autokey-titlewords 3
bibtex-completion-bibliography '("~/notes/pages/sources.bib")
bibtex-completion-library-path '("~/notes/pages/bibtex-pdfs/"))

(use-package! helm-bibtex
:after org-ref)
```

2.7 Agenda

2.7.1 Misc config

```
(add-hook! org-agenda #'org-agenda-to-appt)
(map! :map global :m "C-c a" 'org-agenda)

(after! org
(setq org-agenda-columns-add-appointments-to-effort-sum t
org-todo-keywords '((sequence "TODO(t)" "NEXT(n)" "PROG(r)" "EXTD(e!)" "POST(p)" "DEAD(d)" "HABIT(h)"))
org-agenda-span 1
org-deadline-warning-days 99
org-agenda-skip-deadline-if-done nil
org-habit-show-all-today t))
```

```

org-habit-show-habits-only-for-today nil
org-agenda-start-day "-0d"
org-agenda-skip-timestamp-if-done nil
org-agenda-skip-deadline-if-done nil
org-agenda-skip-scheduled-if-deadline-is-shown 'not-today;'repeated-after-dead
org-agenda-skip-timestamp-if-deadline-is-shown nil
org-agenda-entry-text-maxlines 20
org-agenda-include-diary t
org-agenda-prefix-format " %?-3t %-11s %3e "
org-agenda-keyword-format '("")
org-agenda-remove-tags t
org-agenda-sorting-strategy '(; (agenda deadline-down todo-state-up effort-down
                                (agenda time-up deadline-up priority-down todo-s
                                (todo priority-down category-keep)
                                (tags priority-down category-keep)
                                (search category-keep))

org-agenda-skip-scheduled-if-done t
org-agenda-span 'day))

(after! org
  (setq org-agenda-custom-commands
    '(("g" "Good agenda"
      ((agenda ""
        ((org-agenda-overriding-header "Agenda and Tonight's Homework")))
        (alltodo ""
          ((org-agenda-overriding-header "PROJECTS")
            (org-agenda-prefix-format " %?-3t %?-11s %3e ")
            (org-super-agenda-groups
              '(:discard (:todo "SOMEDAY" :not (:tag "PROJECT"))
                (:auto-outline-path t)
                (:discard
                  (:anything))))))
          (alltodo ""
            ((org-agenda-overriding-header "Other")
              (org-agenda-prefix-format " %?-3t %3e ")
              (org-super-agenda-groups
                '(:name "Bucket List" :and
                  (:todo "SOMEDAY" :tag "PERSONAL")
                  :order 1)
                (:name "Someday Maybe" :todo "SOMEDAY" :order 10)

```

```

                                (:name "Everything Else" :anything t :order 20))))))
  nil nil)
  ("n" "Agenda and all TODOs"
   ((agenda "" nil)
    (alltodo "" nil))
   nil))))

```

2.7.2 Agenda files

```

(setq org-agenda-files
  '("~/notes/pages/20220204195459-english_essay_the_black_cat_due_2022_02_11.org" "~/Do

```

2.7.3 Org-super-agenda

```

(use-package! org-super-agenda)
(setq org-super-agenda-header-map (make-sparse-keymap)
      org-super-agenda-groups
      '(
        (:name "Today's Schedule" :time-grid t :order 2)
        (:name "Meetings" :tag "meeting" :tag "clubs" :tag "club" :order 2)
        (:name "OVERDUE"
         :and (:not (:todo "CNCL" :todo "DONE" :todo "FAIL")) :deadline past)
         :order 1)
        (:name "School Habits" :and (:tag "school" :tag "habit") :order 4)
        (:name "Homework"
         :and (:tag "school" :tag "homework" :deadline (before , (org-read-date nil nil)
         :order 5 )
        (:name "Tests and Quizzes" :tag
         ("test" "quiz" "assessment" "conference")
         :order 3)
        (:name "Upcoming Schoolwork/Homework"
         :and (:tag ("school" "homework") :deadline future)
         :order 6)
        (:name "Personal Habits"
         :and (:tag "personal" :habit t)
         :order 8)
        (:name "Personal TODO list"
         :tag ("personal")
         :order 7)
        (:name "Emails" :tag "email" :order 8)

```

```

      (:name "Scheduled work"
       :scheduled t
       :order 10)
      (:time-grid t)
      (:discard (:tag "drill"))))
(add-hook! org-agenda-before-finalize #'org-super-agenda-mode)
(org-super-agenda-mode)

```

2.7.4 Capture Templates

```

(global-set-key (kbd "C-c c") 'org-capture)
(setq org-capture-templates
  '(("p" "Personal TODO" entry
     (file+headline "~/Documents/personal.org" "Personal TODO list")
     "* TODO %^{Headline} :personal:%^{Tags}:"
     SCHEDULED: %^{Scheduled}t DEADLINE: %^{Deadline}t
     :PROPERTIES:
     :EFFORT: %^{Effort}
     :END:
     ")
    ("H" "Habit" entry
     (file+headline "~/Documents/personal.org" "Personal TODO list")
     "* TODO %^{Headline} :personal:habit:%^{Tags}:"
     SCHEDULED: %^{Scheduled}t
     :PROPERTIES:
     :EFFORT: %^{Effort}
     :STYLE: habit
     :END:
     ")
    ("n" "Quick note" entry
     (file+headline "~/Documents/personal.org" "Quick Notes")
     "* %^{Headline}"
     ENTERED: %U
     " :prepend t)
    ("a" "Test/Assessment/Quiz " entry
     (file "~/org/todo.org")
     "* %^{Test Name} :school:%^{Tags}:"
     DEADLINE: %^{Deadline}t ENTERED: %U" :prepend t :time-prompt t)
    ("P" "Project TODO" entry
     (file "~/org/todo.org")

```



```

      "* TODO %^{Project name} [/] :project:%^{Tags}:
SCHEDULED: %^{Scheduled}t DEADLINE: %^{Deadline}t ENTERED: %U" :prepend t :time-prompt
      ("e" "Email TODO" entry
       (file "~/org/todo.org")
       "* TODO %^{Task} :email:%^{Tags}:
DEADLINE: %^{Deadline}t ENTERED: %U" :prepend t :time-prompt t)
      ("m" "Meeting entry" entry
       (file "~/org/todo.org")
       "* %^{prompt} :meeting:%^{tags}:
DEADLINE: %^{Deadline}T ENTERED: %U" :prepend t :time-prompt t)
      ("h" "Homework entry" entry
       (file "~/org/todo.org")
       "* TODO %^{prompt} :school:homework:
DEADLINE: %^{Deadline}t ENTERED %U
:PROPERTIES:
:EFFORT: %^{Effort}
:END:
" :prepend t :time-prompt t)))

```

2.8 Auto list

```

(use-package! org-autolist
  :after org
  :hook (org-mode. org-autolist-mode))

```

2.9 List promotion and demotion

```

(after! org (setq org-list-demote-modify-bullet '((- " . "+" ) ("+" . "*") ("*" . "*"))))

```

3 Completion

3.1 Ivy

```

(use-package! ivy
  :demand t
  :config
  (ivy-mode t))

```