Matt's Emacs Config (WSL for Home Machine)

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Using Org File to Configure Emacs

- I took this setup from minimal-emacs-setup-with-orgmode.
- When Emacs is started, it tries to load an init file from one of the following:
 - $-\sim/.$ emacs,
 - $-\sim$ /.emacs.el, or
 - $-\sim$ /.emacs.d/init.el.

Where Windows Finds Init File

- Here is a good explanation of where emacs searches for an init file: emacs in windows.
- By default in Windows emacs will look in the following places:
 - %HOMEPATH%\AppData\Roaming\.emacs
 - %HOMEPATH%\AppData\Roaming\.emacs.d\init.el
- But a better way is to create the environment variable named HOME (like this) and populate it with the directory where you want to put the init file.
- BTW, it doesn't matter where you install emacs. As long as you have a HOME environment variable, emacs knows where to look for its config files.

Steps to Setting Up Org File to Configure Emacs

- 1. Delete file \sim /.emacs if you have one.
- 2. Create dir \sim /.emacs.d/ if you don't have one.
- 3. Create file \sim /.emacs.d/init.el if you don't have one.
- 4. Put the init.el (see below) into \sim /.emacs.d/init.el.
- 5. Setup the \sim /.emacs.d/emacs-config.org file.

Code for init.el

Purpose of /.emacs.d/init.el

1. Allow emacs to download packages from the MELPA package server.

- 2. Install the use-package package to simplify package management.
- 3. Load the org package.
- 4. Use the org-babel-load-file function to load and execute the code inside ~/.emacs.d/emacs-config.org.

Everything else is installed and configured in emacs-config.org.

Basic Settings

```
; suppress startup splash-screen
(setq inhibit-startup-screen t)
; disable the scroll bar
(toggle-scroll-bar -1)
; disable the toolbar
(tool-bar-mode -1)
;non-nil invokes Continuous mode
;reaching the page edge advances to next/previous page
(setq doc-view-continuous t)
;non-nil ignores case in file name completion
(setq read-file-name-completion-ignore-case t)
;globally enable visual line mode (i.e. buffer 'word-wrap')
(global-visual-line-mode 1)
;typed text replaces the active selection
(delete-selection-mode 1)
(use-package paren
   :config
```

```
;toggle visualization of matching parens
  (show-paren-mode 1)
;set zero delay to showing a matching paren
  (setq show-paren-delay 0))

;go right into maximized screen
  (toggle-frame-maximized)

;set default font to 16 pt (values are in .1 pt)
  (set-face-attribute 'default nil :height 180)

;enable upcase-region (bound to C-x C-u)
  (put 'upcase-region 'disabled nil)

;enable downcase-region (bound to C-x C-l)
  (put 'downcase-region 'disabled nil)

;remap the function 'list-buffers' to the function 'buffer-menu'
; which shows a list of buffers in a window with focus - "T" toggles the
  (global-set-key (kbd "C-x C-b") 'buffer-menu)
```

Dired

```
(use-package dired-x
  ;open multiple files by marking, then F to open
  :ensure nil)

;kills the Dired buffer (using "a" key),
;then visits the current line's file or directory
(put 'dired-find-alternate-file 'disabled nil)

;this function needs better commenting for purpose
(defun matt-dired-mode-setup ()
```

```
"To be run as hook for 'dired-mode'."

(dired-hide-details-mode 1))

;In Dired '(' toggles dired-hide-details-mode.

(add-hook 'dired-mode-hook 'matt-dired-mode-setup)

;switches: all, ignore backups, human-readable, long (required)

(setq dired-listing-switches "-aBhl --group-directories-first")
```

Time Formatting (for Dired)

- By default emacs displays "recent" files with a higher-resolution timestamp than "older" files.
- This makes time sorting of files in dired messy.
- So, below, I set the time format uniform for both recent and older files.

Themes

- You can only choose one at a time!
- ullet You can comment-out a code block by putting a space right after the # sign.

```
(load-theme 'tsdh-dark t)
```

Browse-Kill-Ring

• Install this with package manager, then delete the custom\variables from init.el.

```
(use-package browse-kill-ring
  :bind ("M-y" . browse-kill-ring)
  :config
  ;act like yank-pop
  (setq browse-kill-ring-replace-yank t))
(provide 'init-browse-kill-ring)
```

LTEX

```
(use-package latex
    :defer t
    :ensure auctex
    :mode ("\\.tex\\'" . LaTeX-mode) ; this line fixed problem of auctex not
    :config
    (setq TeX-auto-save t)
    (setq TeX-parse-self t)
    (use-package preview)
    (add-hook 'LaTeX-mode-hook 'reftex-mode)
)

;; allow org-mode and elisp to run latex snippets
(org-babel-do-load-languages
    'org-babel-load-languages
    '(latex . t) (org . t) (emacs-lisp . t)))
```

aspell

```
(setq ispell-program-name "aspell")
```

pdftools

• I got the below, very nice, config from here: Alberto Alvarez.

org-pdftools

```
(use-package org-pdftools
  :hook (org-mode . org-pdftools-setup-link))
(add-to-list 'org-file-apps '("\\.pdf\\'" . emacs))
```

vertico - completion framework

• I got vertico idea and config from this System Crafters video.

```
(use-package vertico
    :ensure t
    :init
    (vertico-mode))
```

yasnippet

```
(use-package yasnippet
:config
(setq yas-snippet-dirs
'("/mnt/c/Users/matt/Dropbox/math_and_prog/emacs/yasnippet/snippets/"))
(setq yas-use-menu '("full"))
(yas-global-mode 1))
```

ace-window

```
(use-package ace-window
  :ensure t
  :init (setq aw-keys '(?a ?s ?d ?f ?g ?h ?j ?k ?l)) ; override default ke
  :bind (("C-x o" . ace-window))) ; override default key binding
```