Emacs Config

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1 Packages

1.1 Melpa

Add Melpa to the package manager. Melpa contains many popular Emacs packages.

Package archives must be manually refreshed or fetched with M-x package-refresh-contents. All packages added to the package-selected-packages variable can be installed with M-x package-install-selected-packages. Packages can also be installed on a one-off basis interactively with M-x package-install.

In some cases, package installation may fail with "... not found". This likely means that the package archives point to an old (and non-existant) version of the package. The package definitions can be updated by running M-x package-refresh-contents. Packages may also be upgraded all at once with M-x package-upgrade-all.

https://melpa.org/packages/

1.2 Initialize

Initialize the package archive. This makes all previously installed packages available.

```
(package-initialize)
```

melpa

2 Startup

Disable the default Emacs startup screen. Instead, this displays just the opened file or the *Scratch* buffer if no file has been opened.

```
(setq-default inhibit-startup-screen t)
```

3 File System

3.1 Auto-Revert

Auto revert mode automatically reloads file-based buffer's when their files have been updated.

```
(global-auto-revert-mode t)
```

3.2 Backups & Autosaves

Backup and autosaves may litter the filesystem so we disable them. This is ok as my disk is reliable, I save often, and use version control.

4 Performance

Increase the amount of memory allowed before garbage collection kicks in. Emacs runs garbage collection when it is over the limit. The limit is equal to the amount of memory that is actively-used plus used-memory * gc-cons-percentage. Once the limit is reached, Emacs runs garbage collection and recomputes the amount of memory that is actively-used.

```
(setq-default gc-cons-percentage 1.0)
```

Run the garbage collector on idle, every 3 seconds. This reduces the chances of a GC run when interacting with Emacs.

```
(run-with-idle-timer 3 t #'garbage-collect)
```

5 Appearance & Feel

5.1 Remove Clutter

Remove the menu bar and tool bar.

```
(menu-bar-mode -1)
(tool-bar-mode -1)
```

Disable the scroll bar. The functionality is ok sometimes, but it clashes with the theming.

```
(scroll-bar-mode -1)
```

5.2 Lines

Scroll conservatively values above 100 cause Emacs to scroll the minimum number of lines required to get the cursor in position. The default value of 0 causes Emacs to recenter the window.

```
(setq-default scroll-conservatively 101)
```

Display line numbers for text buffers. This can be toggled in an individual buffer with M-x display-line-numbers-mode.

```
(global-display-line-numbers-mode t)
```

Highlight the currently selected line. This can be toggled in an individual buffer with M-x hl-line-mode.

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

5.3 Color Scheme

Use the doom-dracula theme from the Doom Themes package.

```
(add-to-list 'package-selected-packages 'doom-themes)
(load-theme 'doom-dracula t)
```

5.4 Modeline

Use Doom Modeline to display a nicer modeline. Mainly, it:

- Uses more icons.
- Displays a minimal amount of information while still keeping important information such as:
 - Syntax errors
 - Version control information

```
(add-to-list 'package-selected-packages 'doom-themes)
(doom-modeline-mode t)
```

6 Editor Completions

Editor completions refers to auto complete done within the editor context, as opposed to code. Editor completion is used to complete prompts for things such as selecting a file, buffer, or command.

6.1 Ivy

Editor completions are displayed using the Ivy package. This provides a huge improvement over the default built-in Emacs completion.

```
(add-to-list 'package-selected-packages 'ivy)
(ivy-mode t)
```

6.2 Counsel

Counsel provides functions that wrap ivy completion with some extra features. For example, counsel-M-x is an M-x replacement that also displays a keybinding if there is an active keybinding for the particular function.

```
(add-to-list 'package-selected-packages 'counsel)
(counsel-mode t)
```

Enabling counsel-mode makes the counsel-mode-map keymap active. This keymap defines several rebinds.

However, it does not provide a rebind for counsel-switch-buffer. We make this our default (interactive) switch buffer command as it allows previewing the contents of a buffer before switching.

(define-key counsel-mode-map (kbd "C-x b") #'counsel-switch-buffer)

7 Formatting

7.1 Tabs

Emacs uses a combination of tabs and spaces when auto-indenting. This pleases neither the spaces nor tabs crowds. Tabs are disabled to prevent the mixed use, though opinionated languages will still find a way to use their correct default. For example, Go will still use tabs when indenting.

```
(setq-default indent-tabs-mode nil)
Use a default tab width of 4 spaces.
```

```
(setq-default tab-width 4)
```

7.2 Line Width

Set a target line width of 80. Contents of a "paragraph" may be made to follow the target line width through M-x fill-paragraph (default keybind M-q) or a highlighted region with M-x fill-region.

```
(setq-default fill-column 80)
```

Some languages have a different target line length.

```
(defun fill-column-100 ()
   (setq-local fill-column 100))
(add-hook 'rust-mode-hook #'fill-column-100)
```

8 Languages

8.1 Rust

(add-to-list 'package-selected-packages 'rust-mode)

8.2 Org Mode

Enable syntax highlighting for exported material html. Note that this will use the currently active theme.

```
(add-to-list 'package-selected-packages 'htmlize)
```