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Chapter 1

Installation

I've fetched Emacs from the GitHub mirror repository. The source code resides in ˜/developer/software/emacs. Installation instructions reside in the source directory in the file named "INSTALL". I've chosen to use a build directory named "build". From the build directory run configure with:

```
1  $ ./../configure --with-x-toolkit=gtk3 --with-mailutils \
2                    --with-imagemagick --with-xwidgets
```

I'm currently using version 26.1, by running:

```
1  $ git checkout emacs-26.1
```

There is some issue with highlighting in version 27.050 (potentially font-lock?) that makes it very annoying to write code. In general I should only use stable releases, which are specified on the Emacs website.

Chapter 2

Package Setup

2.1 Gnus

Gnus was a huge pain to setup. I finally got it working with the information at this link.

2.2 Term

Ansi term uses 8 colors for the terminal GUI. We can redefine these colors in an Emacs terminal by customizing their values with `M-x customize-group RET term RET`. The colors must also be configured in `~/.bashrc`.

Chapter 3

Functionality

3.1 Code Tagging and Navigation

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Best Practices

This Emacs manual page contains principles to follow when customizing key bindings. Basically, `C-c <letter>` (but not `C-c` followed by another control character) as well as `<f5>` through `<f9>` are free for users to define how they wish.

Chapter 6

To-Do

6.1 Customize Mode Line

I can customize mode-line-format on a per-mode basis (see this StackExchange question). Also, see the Emacs documentation on the subject.

6.2 Disable cursor in pdf-view-mode

I'd like to disable the cursor when viewing a PDF. It's distracting and provides no value. I've tried these two additions to `init.el` to no avail:

```
(add-hook 'pdf-view-mode-hook
          (lambda ()
            (make-variable-buffer-local 'cursor-type)
            (setq cursor-type nil)))
(add-hook 'post-command-hook
          (lambda ()
            (setq cursor-type (if pdf-view-mode t 'nil))))
```

These are the links I've found that address related issues:

How to change the cursor type and color?

Cursor parameters

How can I make the cursor change to block in overwrite mode?

Changing Cursor Dynamically

Cursor Display

6.3 Get much better at Gnus

6.4 Flycheck doesn't work with C

I'm getting an error that the flag -std=c++17 doesn't work with C. This error seems somewhat similar.

6.5　load-file from Emacs

This causes cursor color to change and potentially other behavior as well.

6.6　align-current AUCTeX

align-current works well for tables with limited text. However, it propagates line breaks and so takes up a needless number of lines for long text sections that have to be manually adjusted. Also, I'd like to be able to run this globally for a whole buffer. The most similar action is align-entire but this aligns all tables to one another; I'd like aligning to be done on a per-table basis.

6.7　Consider switching to sane-term from multi-term

sane-term seems like it might be a better alternative to multi-term.

6.8　Single quote delimeter not working

Pressing ́ twice causes three single quotes to be inserted.

6.9　Command that closes all buffers for which underlying file was deleted

Probably better, just do this automatically. One worry is if file was accidentally deleted and buffer allows you to keep the file alive. Still, existing buffers shouldn't be used as a sort of backup.

6.10　run-octave opens in other buffer

`M-x run-octave` opens the octave shell in the other buffer.

6.11　Magit bug missing headers

I'm getting the error: "BUG: missing headers nil" when using magit with ghub. This is a known issue and is tracked here. I guess the solution is to just wait for someone to fix it there.

6.12　Verilog mode escape

When in evil insert mode and the cursor position is after a reg or wire, pressing escape tries to vectorize the reg/wire instead of entering evil normal state.

6.13　Verilog code tagging

Verilog mode should have code tagging and navigation. See this link for ideas on code tagging.

6.14 Better Code Tagging

The problem with RTags is that it only works for C-based languages. gtags should work for many others. See this link. It probably makes sense to use the ggtags interface. Also use the helm interface. This may also be the wrong question, but maybe it's also possible to use rtags as a backend for a common gtags frontend?

6.15 Make Comint mode behave more like term mode

It's annoying that term mode and comint mode use different bindings for navigating command history (C-p and M-p, respectively). They should both use C-p. Additionally, find a way to use the equivalent of term-line-mode/term-char-mode for comint.

6.16 Create Add-On that allows you to edit Anki HTML in Emacs

Adapt this for your needs. That add-on should contain nearly all of the required functionality.

6.17 Get XWidget Webkit working

See this.

6.18 Get LaTeX SVGs working in EWW

EWW is unable to render latex/mathjax directly and so renders the resulting svg instead. This appears as dark text on a dark background. See this post.

6.19 Improve org-books

1. Query user for file when running org-capture and base title on that.

2. Make table of contents entries links to the corresponding page in the pdf.

3. Write a program to extract a table of contents from pdf. Run this automatically when running org-capture.

4. Bind org-capture to a keybinding.

5. Write scripts to get info from Goodreads and Amazon (Goodreads API here).

6. Add description property so that you can make comments on the quality (e.g. "Definitive book on GR").

7. Potentially use Wikipedia categories to categorize books in list and in directories.

6.20 Org Capture Extension

Consider using org-capture-extension which allows you to run org-capture from a browser.

6.21   Git Bug

Consider using git-bug instead of this file to track issues and improvements.

6.22   Eyebrowse

Use eyebrowse to easily navigate between Emacs workstations.