Bogdan's EMACS Config

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Contents

1 This Document

The purpose of this document is mostly to help me remember all of my settings as well as to help newbies set up their environment and get started using my configuration.

2 Installation

2.1 Linux

This depends on the distribution. Most of them will have EMACS in their repositories.

```
sudo apt-get install emacs-snapshot-gtk
```

2.2 Mac OS X

Download and install EMACS for OS X from EMACS for Mac OS X.

2.3 Windows

Download and install EMACS for Windows from the GNU Repositories.

3 Setup

3.1 Unix

Clone the repo into your home directory and then fetch its submodules.

```
cd ~/
git clone https://github.com/Bogdanp/.emacs.d.git
cd .emacs.d
git submodule init
git submodule update
```

3.2 Windows

Windows makes things a bit harder. Add an environment variable called `HOME` and make it point to `C:/Users/Username/`. Clone the `windows` branch of the repository in that folder and fetch its submodules.

4 Bindings

The most important EMACS binding is `C-g`. Use it as an escape hatch for when you mess up your key combinations.

- `M-x` command mode.

- `C-x C-s` will save a file.
- `C-x C-c` will quit EMACS.
- `C-p` and `C-n` goto next and prev line.
- `C-a` and `C-e` goto the beginning and end of the current line.
- `C-x b` switch buffer.
- `C-x f` find file.
- `C-x o` switch to other window.
- `C-c M-a` toggle between the current window state and a fullscreen terminal.
- `q` will close most popups, make sure you are in EMACS mode before you use it (you're in EMACS mode if there's an `<E>` in your status bad).

5 Backups

`undo-tree-mode` is enabled globally. All backups - including `undo-tree` files - are saved in `temporary-file-directory`.

6 dired+

You can bring up dired by pressing `C-j` on a folder whilst in `ido-find-file` (`C-x C-f`).

6.1 Bindings

- `+` create directory.
- `d` delete file(s).
- `g` refresh buffer.
- `m` mark file.
- `u` unmark file.
- `R` rename file(s).

- `U` unmark all files.
- `M-<` goto beginning of buffer.
- `M->` goto end of buffer.

7 EVIL

7.1 Differences From Standard EVIL

My EVIL mode fork makes some changes to the way registers are handled. Most importantly, while you are inside an EVIL mode buffer you can only access the clipboard through the `+` register and nothing else, this prevents EMACS from dirtying the clipboard whenever you cut things.

The copy-on-motion bug is fixed.

`C-w` now works in the minibuffer.

7.2 Common Bindings

You can drop into EMACS mode for a single command using `\`.

- `C-z` switch between EVIL and EMACS mode.

7.3 Normal Mode Bindings

- `SPC` bring up ace jump mode.
- `S-SPC` bring up ace char jump mode.
- `C-w f` toggle between making the current window fullscreen or not.

7.4 Visual Mode Bindings

The `C-a`, `C-e`, `C-p`, `C-n` bindings are available in visual mode.

7.5 Insert Mode Bindings

The `C-a`, `C-e`, `C-p`, `C-n` bindings are available in insert mode.

- `C-w` deletes the previous word.
- `C-r` inserts whatever is in a given buffer.

8 Magit

Magit is fucking great. You can find its official manual here.

8.1 Generic Bindings

- `n` goto next object.
- `p` goto previous object.
- `TAB` expand/collapse object.
- `RET` open object.

8.2 Status Bindings

Use `C-c m` to bring `magit-status` up.

- `S` stage everything.
- `s` stage object under point.
- `u` unstage object under point.
- `b*` branch operations.
- `c*` commit operations.
- `f*` fetch operations.
- `F*` pull operations.
- `P*` push operations.

8.3 Branch Bindings

Use `bv` inside `magit-status` to bring up the visual branch manager.

9 Org

9.1 Bindings

- `TAB` toggle headings.
- `S-TAB` toggle headings globally.

- `C-c`' in a source code block will open up the code in a separate buffer for editing.
- `C-c .` insert date.
- `C-c C-u` parent heading.
- `C-c C-b` previous same-level heading.
- `C-c C-f` next same-level heading.
- `C-c C-p` previous heading.
- `C-c C-n` next heading.
- `C-c C-e` export document.
- `C-x n s` narrow buffer.
- `C-x n w` widen buffer.
- `C-RET` add new heading at the current level.
- `M-RET` add new heading/list item at the current level.
- `M-→` increase heading level.
- `M-←` decrease heading level.
- `S-M-→` increase heading level incl. children.
- `S-M-←` decrease heading level incl. children.

9.2 EVIL Bindings

- , `a` bring up agenda (this one is globally-available).
- , `t` switch todo state on heading.
- `-` cycle list bullet.
- `<` decrease heading level.
- `>` increase heading level.
- `gu` goto parent heading.
- `gj` goto next same-level heading.
- `gk` goto prev same-level heading.

10 Prodigy

Prodigy is bound to `C-c p`.

10.1 Services

Services should be defined in `config/init-prodigy.el`. The following is an example service:

```
(prodigy-define-service
  :name "Python Server"
  :command "python"
  :args '("-m" "SimpleHTTPServer" "8093")
  :cwd "/path/to/my/project/"
  :tags '(example)
  :kill-process-buffer-on-stop t)
```

10.2 Bindings

- `s` start a process.
- `S` stop a process.
- `r` restart a process.
- `$` open a process' log.
- `F` clear filters.
- `f t` filter by tag.
- `f n` filter by name.
- `j d` open dired for the current process.
- `j m` open magit for the current process.

11 Haskell

You will need a recent version of `ghc` and `cabal` as well as the following packages: `hlint`, `ghc-mod`, `ghci-ng`, `structured-haskell-mode`, `stylish-haskell`.

11.1 Structured Haskell Mode

See the Official Repository.

11.2 Bindings

- `C-c C-l` load the current source file into a REPL.
- `C-c C-t` show type of object at point.

12 PHP

PHP is supported through `php-mode` and `web-mode`. Use `web-mode` for mixed HTML and PHP files and `php-mode` for pure PHP files. The default mode for PHP files is `web-mode`.

12.1 Flycheck

Install `phpcs` from PEAR and you should be good to go.

13 Python

13.1 Flycheck

Install `flake8` to use it as a backend for Flycheck.

13.1.1 Ignoring Certain Errors

Create a `.flake8rc` file in your `HOME` directory. For example:

```
[flake8]
ignore = E501,F403,E712
```

13.1.2 Bindings

- `C-c !n` and `C-c !p` goto next and prev error.
- `C-c !l` list errors.

13.2 Jedi

Install `virtualenv` and `epc` and then run `M-x jedi:install-server`.

13.2.1 Bindings

- `C-c .` goto definition (and `C-c ,`).
- `C-c ?` show documentation of the object at point.

14 Scala

View the ENSIME manual at the Official Repository. Start up ENSIME in a Scala buffer with `M-x ensime RET`.

15 Scheme

15.1 Setup

Link `mzscheme` and `racket` so that they can be found in `PATH`.

15.2 Geiser mode

Start it up with `M-x run-geiser`.

15.2.1 Buffer Bindings

- `C-c C-a` to switch to the REPL and enter the current module.
- `C-c C-z` to switch between the buffer and the REPL.
- `C-M-x` eval definition around point.
- `C-c M-e` eval definition around point and switch to REPL.
- `C-c C-x` eval sexp before point.
- `C-c C-r` eval region (also `C-c M-r`).
- `C-c C-b` eval buffer (also `C-c M-b`).
- `M-g n` and `M-g p` to jump to next and prev error.

15.2.2 REPL Bindings

- `C-c C-q` kill Scheme process.
- `C-c M-o` clear REPL.