Bogdan's EMACS Config

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$\mathrm{May}\ 1,\ 2014$

Contents

1	This Document	3													
2	Installation	3													
	2.1 Linux	3													
	2.2 Mac OS X	3													
	2.3 Windows	3													
3	Setup														
	3.1 Unix	3													
	3.2 Windows	4													
4	Bindings	4													
	4.1 General	4													
	4.2 Getting Help	4													
	4.3 Moving Around	4													
	4.4 Buffer Management	5													
	4.5 Window Management	5													
	4.6 Popups	6													
5	Bookmarks														
	5.1 Bindings	6													
	5.2 EVIL Bindings	6													
6	Paredit														
7	Backups														
8	$\operatorname{dired}+$	7													
	8.1 Bindings	7													

9	\mathbf{EVI}	${f L}$
	9.1	Differences From Standard EVIL
	9.2	Common Bindings
	9.3	Normal Mode Bindings
	9.4	Visual Mode Bindings
	9.5	Insert Mode Bindings
10	Mag	cit 8
10	_	Generic Bindings
		Status Bindings
		Branch Bindings
	10.5	Branch Bindings
11	\mathbf{Org}	g
	11.1	EMACS Bindings
		11.1.1 Agenda
		11.1.2 Buffer
		11.1.3 Document
		11.1.4 Headlines
		11.1.5 Movement
		11.1.6 Source Code
	11.2	EVIL Bindings
		11.2.1 Agenda
		11.2.2 Headlines
		11.2.3 Movement
12	Proc	digy 11
14		Services
		Bindings
	12.2	Dilitings
13	Has	kell 11
	13.1	Structured Haskell Mode
	13.2	Bindings
14	PHI	2
		Flycheck
15	Pytl	
	15.1	Flycheck
		15.1.1 Ignoring Certain Errors
		15.1.2 Bindings
	15 2	Indi

		15.2.1	Binding	gs			 •	•	•		•		•		•	13
16	Scal	a														13
17	Sche	eme														13
	17.1	Setup								 						13
	17.2	Geiser	$\bmod e\ .$							 						13
		17.2.1	Buffer	Bind	ings					 						13
		17.2.2	REPL	Bind	ings					 						14

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. VIM users: C-g is your ESC in EMACS.

4.1 General

M-x Bring up extended command mode.

C-x C-c Quit.

C-x C-i Bring up imenu.

C-x C-e Evaluate last sexp.

4.2 Getting Help

C-h f Describe function.

C-h v Describe variable.

C-h k Describe key combination.

4.3 Moving Around

C-s Search forward.

С-р Goto prev line.

C-n Goto next line.

- C-a Goto beginning of line.
- C-e Goto end of line.
- C-b Goto prev character.
- C-f Goto next character.
- M-b Goto prev word.
- M-f Goto next word.
- M-< Goto beginning of buffer.
- M-> Goto end of buffer.
- C-w Kill word backward.
- M-d Kill word.

4.4 Buffer Management

- C-x C-s Save.
- C-x C-w Save as.
- C-x C-b List buffers.
- C-x b Switch buffers.
- C-x f Open.

4.5 Window Management

These suck compared to the EVIL alternatives but they (mostly $C-x \circ$) will come in handy when dealing with <E> buffers.

- C-x 0 Delete current window.
- C-x 1 Delete other windows.
- C-x 2 Split window vertically.
- C-x 3 Split window horizontally.
- C-x o Goto other window.
- C-c M-a toggle between the current window state and a fullscreen terminal.

4.6 Popups

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 bar).

5 Bookmarks

You can set bookmarks to any line in any buffer (incl. dired buffers).

5.1 Bindings

C-x r m Create bookmark.

C-x r b Goto bookmark.

C-x r l List bookmarks.

5.2 EVIL Bindings

- , bc Create bookmark.
- , bb Goto bookmark.
- , bl List bookmarks.

6 Paredit

If you're writing any sort of LISP you **need** to learn Paredit. It's that good. Paredit allows you to perform structured editing of sexps. Read more about it on the EMACS Wiki.

NOTE: If you're coming from VIM Paredit will probably leave you frustrated (there will be times when you delete a closing paren in normal mode and then paredit won't allow you to insert any closing parens) if you don't take the time to learn it. So make sure you do.

You can find a Paredit cheatsheet here.

7 Backups

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

$8 \quad dired +$

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

8.1 Bindings

- n Goto next line.
- p Goto prev line.
- + Create directory.
- x Execute changes.
- D Delete file immediately.
- d Mark file for deletion.
- g Refresh buffer.
- m Mark file.
- u Unmark file.
- R Rename file(s).
- U Unmark all files.

9 EVIL

9.1 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.

9.2 Common Bindings

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

C-z Toggle between EVIL and EMACS mode.

9.3 Normal Mode Bindings

SPC Bring up ace jump mode.

S-SPC Bring up ace char jump mode.

C-w f Toggle window fullscreen.

9.4 Visual Mode Bindings

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

9.5 Insert Mode Bindings

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

C-w Kill word backward.

C-r Yank from register.

10 Magit

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

10.1 Generic Bindings

n Goto next object.

p Goto prev object.

TAB Expand/collapse object.

RET Open object.

10.2 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.

10.3 Branch Bindings

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

11 Org

11.1 EMACS Bindings

11.1.1 Agenda

C-c . Insert date.

C-u C-c . Insert date and time.

11.1.2 Buffer

C-x n s Narrow buffer.

C-x n w Widen buffer.

11.1.3 Document

C-c C-e Export document.

11.1.4 Headlines

TAB Expand/collapse headline.

S-TAB Expand/collapse everything.

C-RET Add new headline at the current level.

M-RET Add new headline/list item at the current level.

M--- Increase headline level.

M-← Decrease headline level.

- $S-M-\rightarrow$ Increase headline level incl. children.
- S-M-← Decrease headline level incl. children.

11.1.5 Movement

- C-c C-u Goto parent headline.
- С-с С-ь Prev same-level headline.
- C-c C-f Next same-level headline.
- C-c C-p Prev headline.
- C-c C-n Next headline.

11.1.6 Source Code

- C-c' Open up the code in a source code block in a separate buffer for editing.
- ${\tt <sTAB}$ Insert source code block. You need to be in insert or EMACS mode to use this one.

11.2 EVIL Bindings

11.2.1 Agenda

, a Bring up agenda (this one is globally-available).

11.2.2 Headlines

- , t Toggle headline state.
- Cycle list bullet.
- < Decrease headline level.
- > Increase headline level.

11.2.3 Movement

- gu Goto parent headline.
- gj Goto next same-level headline.
- gk Goto prev same-level headline.

12 Prodigy

Prodigy is bound to C-c p.

12.1 Services

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

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

12.2 Bindings

- n Next process.
- p Prev process.
- s Start process.
- S Stop process.
- r Restart process.
- \$ View 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.

13 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.

13.1 Structured Haskell Mode

See the Official Repository.

13.2 Bindings

C-c C-l Load the buffer into a REPL.

C-c C-t View type of object at point.

14 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.

14.1 Flycheck

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

15 Python

15.1 Flycheck

Install flake8 to use it as a backend for Flycheck.

15.1.1 Ignoring Certain Errors

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

1: [flake8]

2: ignore = E501,F403,E712

15.1.2 Bindings

C-c !n Goto next error.

C-c !p Goto prev error.

C-c !1 List errors.

15.2 Jedi

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

15.2.1 Bindings

- C-c . Goto definition (and C-c ,).
- C-c ? Show documentation of the object at point.

16 Scala

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

17 Scheme

17.1 Setup

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

17.2 Geiser mode

Start it up with M-x run-geiser.

17.2.1 Buffer Bindings

- C-c C-a Switch to the REPL and enter the current module.
- C-c C-z 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 Jump to next error.
- M-g p Jump to prev error.

17.2.2 REPL Bindings

C-c C-q Kill Scheme process.

C-c M-o Clear REPL.