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[./neo-emacs.gif](#)

1 About

Neo emacs is a configuration framework for GNU Emacs which is based on doom emacs and focuses on the java web application coding environment. Neo emacs has the following features:

- Code completion: Lsp-java supports maven and gradle project.
- Program debugging: Dap-java supports program debugging.
- Http client: Rest-client is a tool to manually explore and test HTTP REST web-services just like Postman.
- SQL client: Ejc-sql turns Emacs into a simple SQL client which supports various databases.
- Terminal emulator: Emacs-libvterm (vterm) is fully-fledged terminal emulator inside GNU Emacs based on libvterm.
- Knowledge management system: Org-roam borrows principles from the Zettelkasten method, providing a solution for non-hierarchical note-taking.
- [onlinedoc](#)

2 How to install

2.1 Install emacs

Choose your operation system and install it.

- `gnu-emacs` is the official emacs client.
- `emacs-plus` is the best choice to run NeoEmcas.
- `export EMACS=/Applications/Emacs.app/Contents/MacOS/Emacs`, this depends on your installation path.

2.2 Building Emacs

```

1 git clone git://git.savannah.gnu.org/emacs.git
2 cd emacs
3 git checkout emacs-28
4 brew install libxml2
5 make configure
6 ./configure --with-native-compilation --with-modern-papirus-icon --with-no-titleb
7 make -j4
8 make install
9 open nextstep/Emacs.app

```

2.3 Clone doom-emacs

```

1 git clone https://github.com/hlissner/doom-emacs.git ~/.emacs.d/

```

2.4 Clone neo-emacs

```

1 git clone https://github.com/vanniuner/neo-emacs.git ~/.doom.d/

```

2.5 Doom Install

Make sure that you have some setting in your terminal environment.

Set up a vpn if you need it.

```
1 export http_proxy="ip:port"
2 export https_proxy="ip:port"
```

Set your emacs cmd for doom install.

```
1 export EMACS= $YOUR EMACS CMD PATH$
```

At last run below, this will take few minutes. And it depends on the quality of your network.

```
1 ~/.emacs.doom/bin/doom install
```

3 Private setting

Changing config in the config.el.

rg-exec-path	“/opt/homebrew/bin/rg”	rg exec p
fd-exec-path	“/opt/homebrew/bin/fd”	fd exec p
dot-exec-path	“/opt/homebrew/bin/dot”	dot exec p
lsp-maven-path	“~/m2/settings.xml”	maven settin
pdflatex-exec-path	“/Library/TeX/texbin/pdflatex”	pdflatex exe
org-directory	“~/org/”	org root p
org-roam-directory	“~/org/org-roam”	org roam ro
lsp-java-java-path	(concat (getenv “JAVA_11_HOME”) “/bin/java”)	java11 exec
doom-font	(font-spec :family “等距更纱黑体 Slab SC” :size 18)	font sett
display-line-numbers-type	nil	show line n
rime-user-data-dir	“~/Library/Rime/”	rime config input m
rime-librime-root	“~/doom.d/myconfig/rime-macos/dist”	emacs-rime/blob/master/1
emacs-module-root	“/opt/homebrew/opt/emacs-plus@28/include”	emcas module root pat
node-bin-dir	“~/node-v16.14.0/bin”	node exec
lsp-java-jdt-download-url	“ http://1.117.167.195/download /jdt-language-server-1.6.0-202111261512.tar.gz”	jdt-server URL, with ten

4 Lsp-java Usage

- generate .project & .classpath files

```
1 mvn eclipse:clean eclipse:eclipse
```

- support projectlombok plugin
- Key binding

KEY	FUNCTION	DESCRIPTION
M-i	lsp-goto-implementation	find where sub class definition
M-o	lsp-java-open-super-implementation	goto where super class definition
M-t	lsp-treemacs-references	find where your code be referenced
s-d	lsp-goto-type-definition	goto type definition
, f r	lsp-format-region	format the region java code
, f b	lsp-format-buffer	format the whole file
, m	lsp-java-add-unimplemented-methods	add function code template for unimplemented methods
; i	lsp-java-organize-imports	import require package or delete some unuse package

5 Dap-java Usage

- Config the debug host and port, add file \$usr_private_dir/dap-java-config.el.
- Use ‘(setq user-private-dir “\$usr_private_dir/dap-java-config.el”)’ make it effective.

```
1 (dap-register-debug-template
2   "user-service "
3   (list :name "Java_Attach"
4         :type "java "
5         :request "attach "
6         :projectName "user-service "
7         :hostName "127.0.0.1 "
8         :port 1044))
```

- key binding

KEY	FUNCTION	DESCRIPTION
, n	dap-next	Breakpoint next
, b	dap-breakpoint-toggle	
, c	dap-continue	
, r	dap-eval-region	
, a	dap-eval-thing-at-point	
, d	dap-debug	
, u	dap-ui-repl	

6 Company box customize

- use ‘M-x all-the-icons-material’ for checking icon
- company-icon icon config file: ~/.emacs.d/modules/completion/company/config.el

7 Ejc-sql Usage

- Config your db connection in the \$usr__private__dir/db-work.el.

```

1      (use-package ejc-sql
2        :commands ejc-sql-mode ejc-connect
3        :config
4        (setq clomacs-httpd-default-port 18090)
5        (ejc-create-connection "connection-name"
6          :classpath          "~/.m2/repository/mysql/mysql-connector-java/8.0.
7          :connection-uri     "jdbc:mysql://localhost/user?useSSL=false&user=r
8          :separator          "</?\\.*>" )
9      )
10     (provide 'db-work)
```

- sql file

```

1
2      <SELECT>
3      SELECT * FROM TABLE_ORG
4      </SELECT>
5
6      <SELECT>
7      delimiter ;
8      COMMENT ON COLUMN TABLE_ORG.PROJECT_CODE IS '项目编码';
9      COMMENT ON COLUMN TABLE_ORG.PERIOD IS '期间';
10     </SELECT>

```

- key binding

KEY	FUNCTION	description
SPC e c	ejc-connection	choose connection with ivy
C-c C-c	ejc-execute	execute the sql

8 Rime Usage

- <https://github.com/DogLooksGood/emacs-rime> supply this plugin.
- <https://github.com/rime/plum> for more infomation.
- some rime input method config at .doom.d/myconfig/rime-config.

9 Libvterm Usage

- Ubuntu

```

sudo apt install cmake
sudo apt install libtool-bin

```

- MacOS

```
sudo brew install cmake libtool
```

- Key Binding

KEY	FUNCTION	DESCRIPTION
SPC v v	projectile-run-vterm	open vterm window base on the project root path
SPC v p	vterm-send-start	enable vterm screen roll
SPC v s	vterm-send-stop	disable vterm screen roll

10 Questions

10.1 install ffmpeg

- brew install ffmpeg

10.2 how to install all-the-icons?

- M-x install-package all-the-icons
- M-x all-the-icons-install-fonts

10.3 how to install rime ?

- M-x install-package rime

```
unzip rime-1.5.3-osx.zip -d ~/.emacs.d/librime
```

10.4 how to install vterm?

```
cd ~/.emacs.d/.local/straight/build/vterm/  
mkdir -p build  
# install cmake and libtool-bin  
brew install cmake, brew install libtool
```



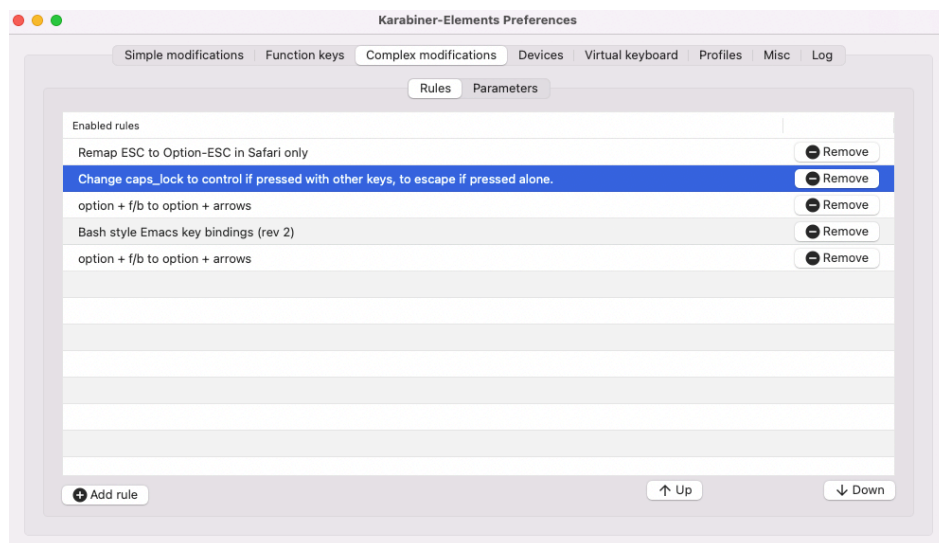
```
mkdir -p build
cd build
cmake ..
make
```

10.5 lsp-springboot

```
mvn -Djdt.js.server.root=/Users/van/.emacs.d/.local/etc/.cache/lsp/eclipse.jdt.ls
mvn -Djdt.js.server.root=/Users/van/.emacs.d/.local/etc/.cache/lsp/eclipse.jdt.ls -Djunit.runner.root=/U
runner/ -Djunit.runner.fileName=junit-platform-console-standalone.jar -Djava.debug.root=/Users/van/.emacs
-Pe418 clean package
```

10.6 useful key setting

- Change caps_lock to control if pressed with other keys, to escape if pressed alone.



11 Dependencies

https://github.com/hlissner/doom-emacs/blob/master/docs/getting_started.org

<https://github.com/BurntSushi/ripgrep>

<https://github.com/junegunn/fzf>

<https://github.com/kostafey/ejc-sql>

<https://leiningen.org/>

<https://plantuml.com/>

<https://github.com/emacs-lsp/lsp-java>

<https://projectlombok.org/>

<https://github.com/DogLooksGood/emacs-rime>

<https://github.com/be5invis/Sarasa-Gothic>

<https://github.com/akicho8/string-inflection>

<https://raw.githubusercontent.com/alibaba/p3c/master/p3c-formatter/eclipse-codestyle.xml>

<https://www.tug.org/mactex/>