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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-
  titlebar
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

```
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.

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

Set your emacs cmd for doom install.

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

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

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

3 Private setting

Changing config in the config.el.

rg-exec-path	"/opt/homebrew/bin/rg"	rg exec path
fd-exec-path	"/opt/homebrew/bin/fd"	fd exec path
dot-exec-path	"/opt/homebrew/bin/dot"	dot exec path
lsp-maven-path	"~/.m2/settings.xml"	maven setting path
pdflatex-exec-path	"/Library/TeX/texbin/pdflatex"	pdflatex exec path
org-directory	"~/org/"	org root path
org-roam-directory	"~/org/org-roam"	org roam root path
lsp-java-java-path		java11 exec path
doom-font		font setting
display-line-numbers-type	nil	show line number
rime-user-data-dir	"~/Library/Rime/"	rime config input
rime-librime-root	"~/.doom.d/myconfig/rime-macos/dist"	emacs-rime/blob/master/
emacs-module-root	/opt/homebrew/opt/emacs-plus@28/include	emcas module root
node-bin-dir	"~/node-v16.14.0/bin"	node exec path
lsp-java-jdt-download-url	http://1.117.167.195/download	jdt-server URL

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
7      /8.0.17/mysql-connector-java-8.0.17.jar"
8      :connection-uri      "jdbc:mysql://localhost/user?useSSL=false&user=
9      root&password=pwd"
10     :separator           "</?.*>" )
    )
    (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 information.
- 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?

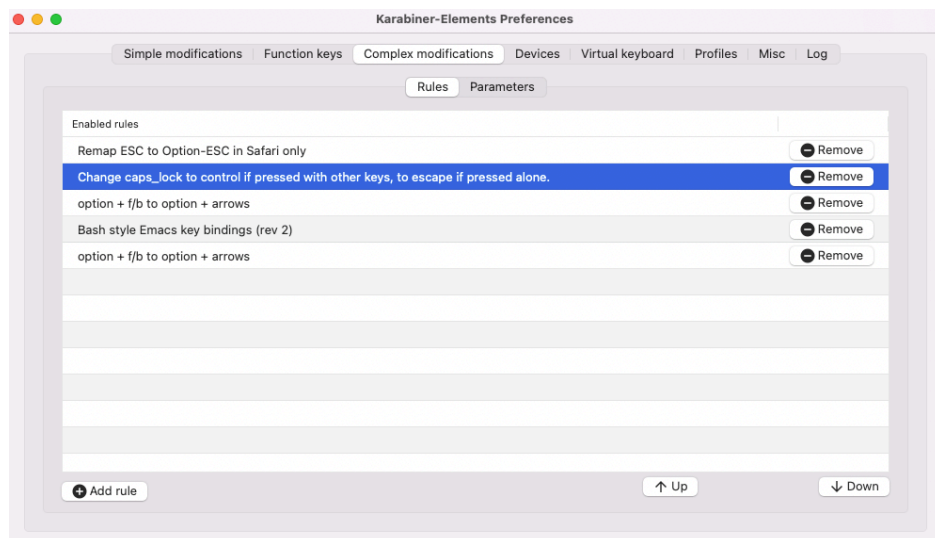
```
cd .emacs.d/.local/straight/build/vterm/  
mkdir -p build  
# install cmake and libtool-bin  
brew install cmake, brew install libtool  
mkdir -p build  
cd build  
cmake ..  
make
```

10.5 lsp-springboot

```
mvn -Djdt.js.server.root=/Users/van/.emacs.d/.local/etc/.cache/lsp/eclipse.jdt.ls/  
server/ -Djunit.runner.root=/Users/van/.emacs.d/.local/etc/eclipse.jdt.ls/test  
-runner/ -Djunit.runner.fileName=junit-platform-console-standalone.jar -Djava.  
debug.root=/Users/van/.emacs.d/.local/etc/.cache/lsp/eclipse.jdt.ls/server/  
bundles clean package -Djdt.download.url=http://download.eclipse.org/jdtls/  
snapshots/jdt-language-server-latest.tar.gz -f lsp-java-server-build.pom
```

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/>