

♥ WebStorm

@nicknisi



To open “WebStorm” you need to install the legacy Java SE 6 runtime.

Click “More Info...” to visit the legacy Java SE 6 download website.

More Info...

OK

♥ ~~WebStorm~~ Vim

@nicknisi



But I **NEED** an IDE

No you don't



Why vim?

- highly customizable
- runs everywhere
- works with many programming languages
- scriptable

Install vim

(it's probably already there)

Features

Modal editing

```
14 ▶ ▶ ▶ ▶ ▶ }-
13 ▶ ▶ ▶ ▶ ▶ top = rec;-
12 ▶ ▶ ▶ ▶ ▶ }-
11 ▶ ▶ ▶ ▶ ▶ ++top.count;-
10 ▶ ▶ ▶ ▶ ▶ roots[0].refs.push(top);-
9 ▶ ▶ ▶ ▶ ▶ }-
8 ▶ ▶ ▶ ▶ ▶
7 ▶ ▶ ▶ ▶ ▶ // remove classes without external references recursively-
6 ▶ ▶ ▶ ▶ ▶ while(roots.length){-
5 ▶ ▶ ▶ ▶ ▶ // new world-
4 ▶ ▶ ▶ ▶ ▶ // optimization: follow single-linked chain-
3 ▶ ▶ ▶ ▶ ▶ while(1){-
2 ▶ ▶ ▶ ▶ ▶ top = refs[0];-
1 ▶ ▶ ▶ ▶ ▶ if(!top || --top.count){-
54 ▶ ▶ ▶ ▶ ▶ ▶ // branch or end of chain => do not end t
C roots-
1 ▶ ▶ ▶ ▶ ▶ top = 0;-
2 ▶ ▶ ▶ ▶ ▶ break;-
3 ▶ ▶ ▶ ▶ ▶ }-
```

NORMAL master <re.js[+] javascript 4% 54: 89 mixed-indent[229]

Modal editing

Change the meaning of the keys in each mode of operation

- Normal mode - navigate the structure of the file
- Insert mode - editing the file
- Visual mode - highlight portions of the file to manipulate at once
- Ex mode - command mode

Normal mode

DON'T USE ARROW KEYS

DON'T USE THE MOUSE



You're a programmer.
Strive to be lazy.

h j k l

left up down right

- ^E - scroll the window down
- ^Y - scroll the window up
- ^F - scroll down one page
- ^B - scroll up one page
- H - move cursor to the top of the window
- M - move cursor to the middle of the window
- L - move cursor to the bottom of the window
- gg - go to top of file

Elit@!

The secret sauce

The secret sauce

- text objects and motions
- the DOT command
- macros

Text objects and motions

Think of a file as more than individual characters



text objects

- w - words
- s - sentences
- p - paragraphs
- t - tags¹

¹ tags available in XML/HTML files

Motions

- a - all
- i - in
- t - 'til
- f - find forward
- F - find backward



A man with a mustache and a woman with a headband, both wearing white lab coats, are smiling and standing in a laboratory. The man is on the left, and the woman is on the right. They are both looking towards the camera. The background is a plain, light-colored wall.

Combine with comands

Commands

- d - delete (also cut)
- c - change (delete, then place in insert mode)
- y - yank (copy)
- v - visually select



{command}{text object or motion}

diw

delete in word

caw

change all word

vi)

yank all text inside parentheses

va "

visually select all inside doublequotes

Including doublequotes

Repetition

The DOT command

.

A fluffy brown dog is lying on a light-colored couch. In the background, a person's legs wearing blue jeans and white socks are visible, sitting on the same couch. The scene is indoors, with a doorway and a wall visible in the background.

Repeat the last command

that's it

but it's powerful



Additional commands

- `dd / yy` - delete/yank the current line
- `D / C` - delete/change until end of line
- `^ / $` - move to the beginning/end of line
- `I / A` - move to the beginning/end of line and insert
- `o / O` - insert new line above/below current line and insert

Try and make actions repeatable
Practice it

Not everything is repeatable
at least with the DOT command

MACROS

Macro

A sequence of commands recorded to a register



Record a macro

- `q{register}`
- `(do the things)`
- `q`

Play a macro

- `@{register}`

Plugins

Plugins

- vundle - plugin manager
- nerdtree - file drawer
- ctrlp - fuzzy file finder
- fugitive - git tool
- syntastic - syntax checker / linter



But My IDE does more

Vim is extremely customizable
Plugins tailor vim to your needs

But we can still do more

[+] BOL. LS-

```

12  ▶   for (var i = 0; i < 5; ++i) { movable.update(); }↵
11  ▶   expect(movable.get('x')).to.equal(val + 5);↵
10  ▶   expect(movable.get('y')).to.equal(val);↵
9   ▶ };↵
8   ↵
7   ▶ it('should only allow speed to be settable to the MAX_SPEED', () => {↵
6   ▶   movable.setDirection(Direction.East);↵
5   ▶   movable.set('speed', Movable.MAX_SPEED + 1);↵
4   ▶   movable.update();↵
3   ▶   expect(movable.get('speed')).to.equal(Movable.MAX_SPEED);↵
2   ▶   expect(movable.get('x')).to.equal(val + Movable.MAX_SPEED);↵
1   ▶   expect(movable.get('y')).to.equal(val);↵
85  ▶ });↵
1   ↵
2   ▶ it('should increment the rotation gradually', () => {↵
3   ▶   var rotationSpeed = movable.rotationSpeed,↵
4   ▶   ▶   newDirection = Direction.South,↵
5   ▶   ▶   turns = newDirection / rotationSpeed;↵
6   ▶   movable.set('direction', Direction.East);↵
7   ▶   movable.set('speed', 1);↵
8   ▶   movable.set('direction', newDirection);↵
9   ▶   for (var i = 0; i < turns; ++i) {↵
10  ▶   ▶   movable.update();↵
11  ▶   ▶   }↵
12  ↵
13  ▶   expect(movable.get('direction')).to.equal(movable.rotation);↵
14  ▶ });↵

```

85: 6

```
"src/automaton/tests/unit/_Movable.ts" 100L, 3082C written
```

```
>> 3 non-emit-preventing type warnings
```

```
>> Type errors only.
```

```
TypeScript compilation complete: 1.33s for 15 typescript files
```

Done, without errors.

Completed in 1.851s at Mon Feb 23 2015 22:38:45 GMT-0600 (CST) - Waiting...

All files	90.32	55.56	90.22	90.23
-----	-----	-----	-----	-----

Done, without errors.

```
~/code/automaton
```


x typescript

1 pasta 1 dotfiles 2 talk 3 dojo **4 automaton**

🎵 **Bennie And The Jets - Elton John**

22:38 23 Feb **rugen**

tmux

```
brew install tmux
```

What is tmux?

- Terminal multiplexer
- View and control multiple consoles
- Preconfigure environments

```
tmux new-session -s {session-name}
```

```
tmux new-session -s pasta
```


~/ .tmux.conf - tmux configuration

→ configure tmux

```
# unbind default prefix and set it to Ctrl+a
unbind C-b
set -g prefix C-a
bind C-a send-prefix
```

For each modifier key listed below, choose the action you want it to perform from the pop-up menu.

Caps Lock (⇧)	<input type="text" value="^ Control"/>	⌵
Control (^) Key:	<input type="text" value="^ Control"/>	⌵
Option (⌘) Key:	<input type="text" value="⌘ Option"/>	⌵
Command (⌘) Key:	<input type="text" value="⌘ Command"/>	⌵

```
23 set -g default-command "reattach-to-user-namespace -l zsh"
22 # tmux display things in 256 colors
21 set -g default-terminal "screen-256color"
20 set -g status-utf8 on
19
18 set -g history-limit 20000
17
16 # automatically renumber tmux windows
15 set -g renumber-windows on
14
13 # unbind default prefix and set it to Ctrl+a
12 unbind C-b
11 set -g prefix C-a
10 bind C-a send-prefix
9
8 # for nested tmux sessions
7 bind-key a send-prefix
6
5 # Activity Monitoring
4 setw -g monitor-activity off
3 set -g visual-activity off
2
1 # Rather than constraining window size to the maximum size of any client
24 # connected to the *session*, constrain window size to the maximum size of any
1 # client connected to *that window*. Much more reasonable.
2 setw -g aggressive-resize on
3
4 # make delay shorter
5 set -sg escape-time 0
6
7 # tile all windows
8 unbind =
9 bind = select-layout tiled
10
11 # cycle through panes
12 # unbind C-a
13 # unbind o # this is the default key for cycling panes
NORMAL master tmux/tmux.conf.symlink
pasta 1 dotfiles 2 talk 3 dojo 4 automaton
```

There's a lot that tmux can do

Synchronize-panes

```
18 ~
17 # [fit] `tmux new-session -s {session-name}`~
16 ~
15 ----~
14 ~
13 # [fit] `tmux new-session -s pasta`~
12 ~
11 ----~
10 ~
9 # [fit] `~tmux.conf` - tmux configuration~
8 ~
7 configure tmux~
6 ~
5 ~`bash~
4 # unbind default prefix and set it to Ctrl+a~
3 unbind C-a~
2 set -s prefix C-a~
1 bind -a send-prefix ~
342 ~
1 ~
2 ![ ](tmux send-prefix C-a)~
3 ~
4 ![ ](tmux send-prefix C-a)~
5 ~
6 ----~
7 ~
8 # [fit] There's a lot that tmux can do~
9 ~
10 ----~
11 ~
12 # [fit] Synchronize-panes~
13 ~
14 ![ ](tmux send-prefix C-a)~
15 ~
16 ----~
17 ~
18 # [fit] Create splits on the fly~
```

Create splits on the fly

tmux + vim = ❤️

benmills/vimux

Interact with tmux from vim

Execute commands from vim in a split

```
:call VimuxRunCommand("grunt test")
```

Map the commands to a key

```
nmap <leader>z :call VimuxRunCommand("grunt test")<cr>
```


I ♥ vim

and I think you will, too

Learn your editor well
(even if it's not vim)



Don't copy someone else's configuration
Make it your own

A woman with long dark hair is looking upwards and to the right. A hand is visible in the upper right corner, pointing towards the top right. The background is dark with some vertical light streaks.

But share your configuration



dotfiles

- Share your configuration
- Steal ideas from others
- [nicknisi/dotfiles](https://github.com/nicknisi/dotfiles)

Keep practicing



<https://github.com/nicknisi/vim-workshop>