



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

A close-up, low-angle shot of a woman's face in profile, facing right. She has long, dark hair and is wearing a light-colored, ribbed turtleneck sweater. Her eyes are closed or heavily shadowed, and she has a contemplative, slightly melancholic expression.

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

```
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      // follow world-
4      // optimization: follow single-linked chain-
3      while(refs = top.refs, refs.length = 1){-
2      top = refs[0];-
1      if(!top || --top.count){-
54          // branch or end of chain => do not end the loop-
        roots-
1      top = 0;-
2      break;-
3      }-

```

NORMAL

master

<re.js[+]

javascript

4% ↵ 54: 89

* mixed-indent[229]

Modal editing

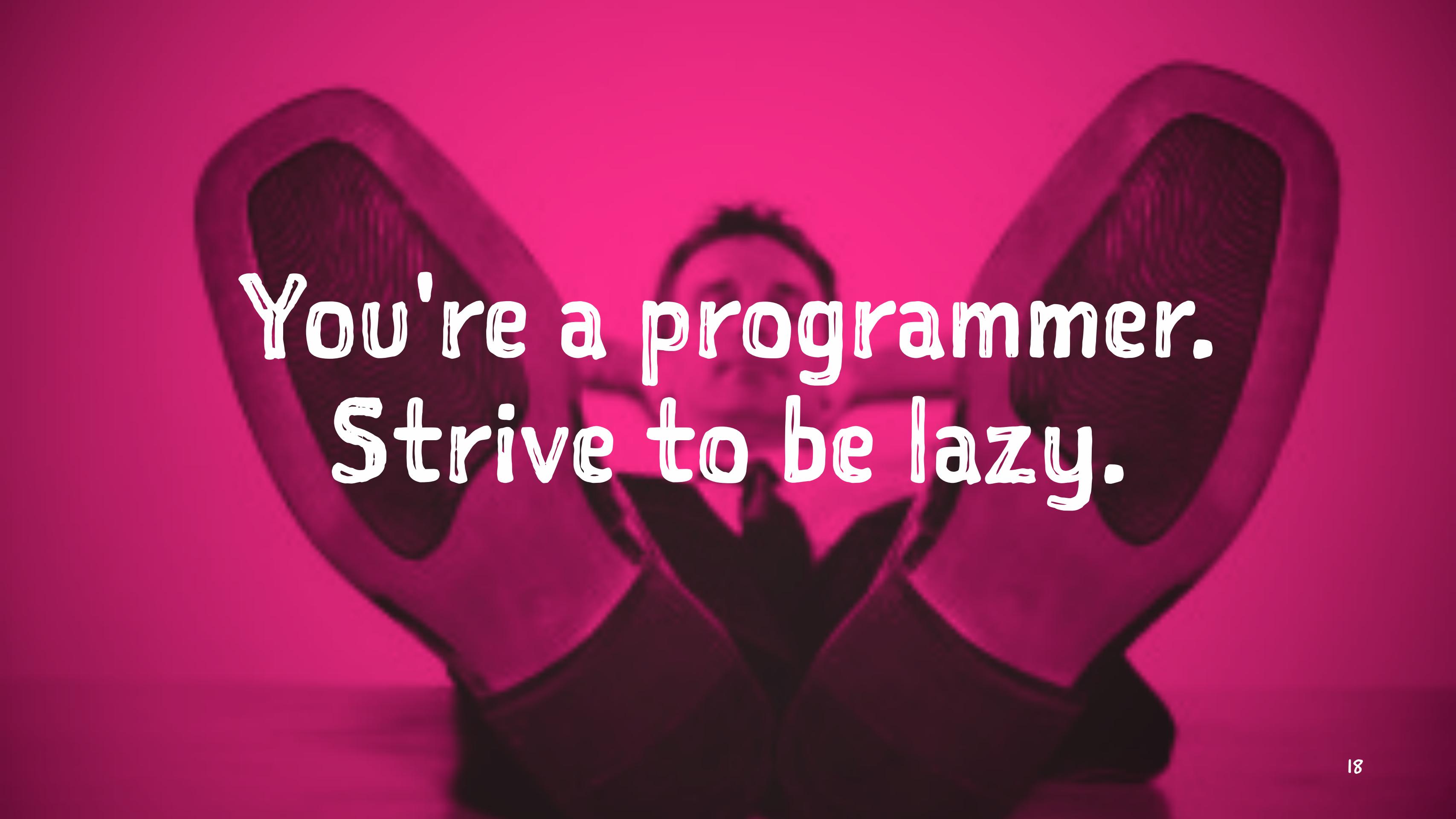
Change the meaning of the keys in each mode of operation

- 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

A blurred background image of a person with short hair, wearing a light-colored shirt, sitting at a desk and looking towards the camera. Two computer monitors are visible behind them, though their screens are not legible.

You're a programmer.
Strive to be lazy.

h j k a

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

**FOR
Hope!**

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

¹tags available in XML/HTML files

Motions

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



A close-up photograph of a man and a woman laughing together. The man, on the left, has dark hair and a beard, wearing a light-colored t-shirt. The woman, on the right, has long dark hair tied back with a pink headband, wearing a dark top. They are both looking towards the camera with wide smiles.

Combine with commands

Commands

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



{command} {text object or motion}

ctrl + w

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 person wearing a purple hoodie and a yellow cap, sitting at a desk with a computer monitor.

Repeat the last command

that's it

A person wearing a red t-shirt is shown from the waist up, standing against a dark background. Their arms are raised, with their hands open and fingers spread, palms facing forward. The lighting is dramatic, highlighting the red of the shirt and the skin tone of the hands.

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

A photograph of a man standing behind a large-scale chess set on a sandy beach. He is wearing a light blue and white patterned short-sleeved shirt and white pants. He is holding a small, dark object in his right hand. The chess pieces are massive; the king is a tall, ornate figure, and the pawns are also quite large. The background shows a clear blue sky and some distant buildings or structures across the water.

IMAGROS

Macro

A sequence of commands recorded to a register



Record a macro

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

Play a macro

- `@{register}`

PHP **Phuong**ims

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

Shell

```

[X]unit/-
  _Movable.js
  _Movable.js.map
  _Movable.ts
  all.js
  all.js.map
  all.ts
  Bot.js
  Bot.js.map
  [+]Bot.ts
  GameLoop.js
  GameLoop.js.map
  GameLoop.ts
  ObjectPool.js
  ObjectPool.js.map
  ObjectPool.ts
  util.js
  util.js.map
  util.ts
  chai.d.ts
  dojo.d.ts
  intern.d.ts
  intern.js
  util/-
    Bot.js
    Bot.js.map
    [+]Bot.ts

```

```

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  };-

```

NERD NORMAL ➤typescript ➤src/automaton/tests/unit/_Movable.ts typescript < utf-8[unix] 85% 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...

1 pasta 2 dotfiles 3 talk 4 automaton

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

Done, without errors.

~/code/automaton

x typescript

♪ Bennie And The Jets - Elton John

22:38 23 Feb rugen

Shell

```

[X]unit/-
  _Movable.js
  _Movable.js.map
  _Movable.ts
  all.js
  all.js.map
  all.ts
  Bot.js
  Bot.js.map
  [+]Bot.ts
  GameLoop.js
  GameLoop.js.map
  GameLoop.ts
  ObjectPool.js
  ObjectPool.js.map
  ObjectPool.ts
  util.js
  util.js.map
  util.ts
  util.ts.map
  chain.ts
  dojo.ts
  node.d.ts
  n.js
  ut
    Bot.js
    Bot.js.map
    [+]Bot.ts
NORMAL ➔ ↵ typescript ➔ src/automaton/tests/unit/_Movable.ts
typescript < utf-8[unix] 85% ↵ : 6
"src/automaton/tests/unit/_Movable.ts" 100L, 3082C written

```

```
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»

♪ Bennie And The Jets - Elton John

X typescript
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 (⇪)	^ Control
Control (^) Key:	^ Control
Option (⌥) Key:	⌥ Option
Command (⌘) Key:	⌘ Command

Shell

```
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
```

i 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-b ~
2 set -g prefix C-a ~
1 bind C-a send-prefix ~
342 ~
1 ~
2 ![(function() {
3 ~
4     if (process.argv[1] === 'tmux')) {
5 ~
6     ----
7 ~
8 # [fit] There's a lot that tmux can do ~
9 ~
10 ----
11 ~
12 # [fit] Synchronize-panes ~
13 ~
14 ![(function() {
15 ~
16 ----
17 ~
18 # [fit] Create splits on the fly ~
NORMAL ➤ ↵ master vim-workshop.md
"vim-workshop.md" 360L, 5465C written
pasta 2 talk
```

Create splits on the fly

markdown utf-8[unix] 95% ↵ 342: 3 < ⌂ tag 59 tag[288]

tmux + vim = ❤

bennmills/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>
```

A  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



But share your configuration

dotfiles

- Share your configuration
- Steal ideas from others
- [nicknisi/dotfiles](#)



Keep practicing



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