

 **WebStorm**

**@nicknisi**

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**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



 **WebStorm Vim Minecraft**

A close-up photograph of a woman with long, wavy brown hair. She is looking slightly downwards and to her left with a thoughtful expression. Her right hand is resting against her cheek, with her fingers partially hidden in her hair. The lighting is soft and warm, creating a contemplative atmosphere.

**But I NEED an IDE**

No you don't



# Why vim?

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



I Am Devloper

@iamdevloper

Follow

Over 1 year, the average Vim user saves 11 minutes in productivity.

However, they lose 27 hours through evangelising Vim to non-users.



...

RETWEETS

2,419

FAVORITES

1,619



7:55 AM - 15 Apr 2015

# **start the timer**



Rs. 20/-

instain vim

**(it's probably already there)**

```
brew install macvim --override-system-vim
```

# 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      /, world-
4      / organization, gold, w, s, ple, ir-
3      white(refs = top.refs, refs.length == 1, t-
2      top = refs[0];-
1      if(!top || --top.count){-
54      // branch or end of chain => do not end t-
4      roots-
1      top = 0;-
2      break;-
3      }-

```

# Modal editing

NORMAL

master

&lt;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 person with dark hair and a beard is wearing a dark hoodie. Their hands are clasped together in front of them. They are looking directly at the camera with a neutral expression.

You're a programmer.  
Strive to be lazy.



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

Inte  
ri  
te

# The secret sauce

# The secret sauce

A close-up photograph of a person's hand wearing a dark blue long-sleeved shirt. The hand is holding a small glass jar with a silver lid, tilted to pour a thick, red, viscous substance, likely ketchup or salsa, into a white ceramic bowl. The background is a solid dark blue.

A hand pouring red sauce from a jar into a white bowl.

- 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 - tags<sup>1</sup>

---

<sup>1</sup> tags available in XML/HTML files

01:19:09

# Motions

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



A photograph of a man and a woman smiling and laughing together. The man on the left has a mustache and is wearing a white t-shirt. The woman on the right is wearing a yellow headband and a patterned top. They are both looking towards the camera with joyful expressions.

# 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}

q i w

delete in word

caw

change all word



**yank all text inside parentheses**

va!!

**visually select all inside doublequotes**

**Including doublequotes**

# Repetition

## The DOT command



# Repeat the last command

that's it

A close-up photograph of a person's hand emerging from a dark, jagged opening in a wall made of crumpled metal shards. The hand is gripping the edge of the hole, with fingers visible. The background is a dark, textured surface.

**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`

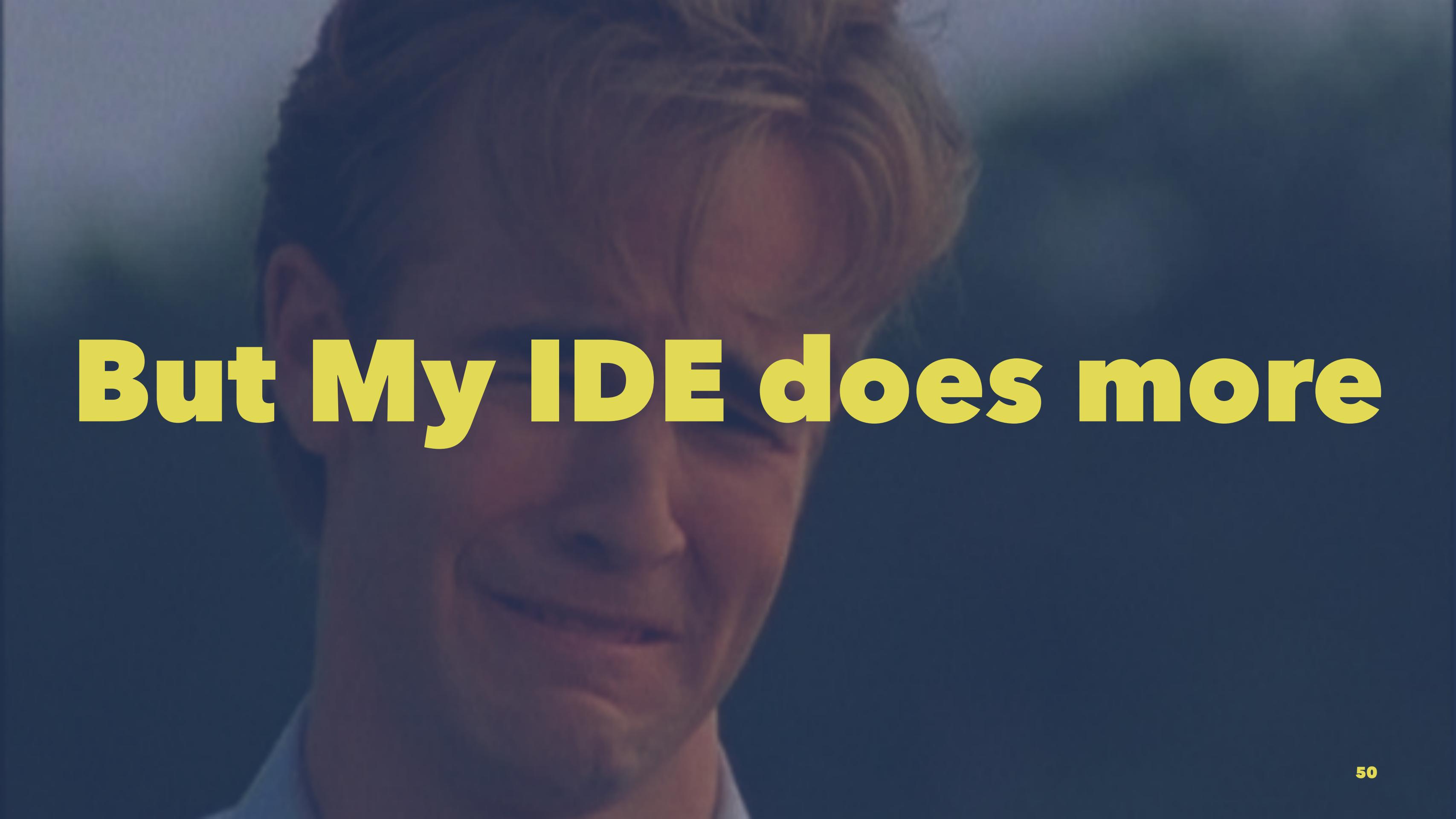
## Play a macro

- `@{register}`

# plugins

# Plugins

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

A close-up photograph of a woman with long, wavy brown hair. She is looking down at a laptop screen, which is visible in the lower-left corner of the frame. The lighting is soft, creating a warm atmosphere.

# 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...

```

```

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

1 pasta 2 dotfiles 3 talk 4 automaton

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
  GameLoop.ts.map
  ObjectPool.js
  ObjectPool.js.map
  ObjectPool.ts
  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   ▶     var newDirection = Direction.South;
5   ▶     var 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
```

```
➤
```

```
♪ Bennie And The Jets - Elton John
```

```
x typescript
22:38 23 Feb rugen
```

The tmux logo consists of the word "tmux" in a bold, sans-serif font. The letters are yellow with black outlines, set against a dark blue background. A large, thin yellow arrow points from the right side of the "x" towards the right edge of the slide.

```
brew install tmux
```

# what is tmux?

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

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

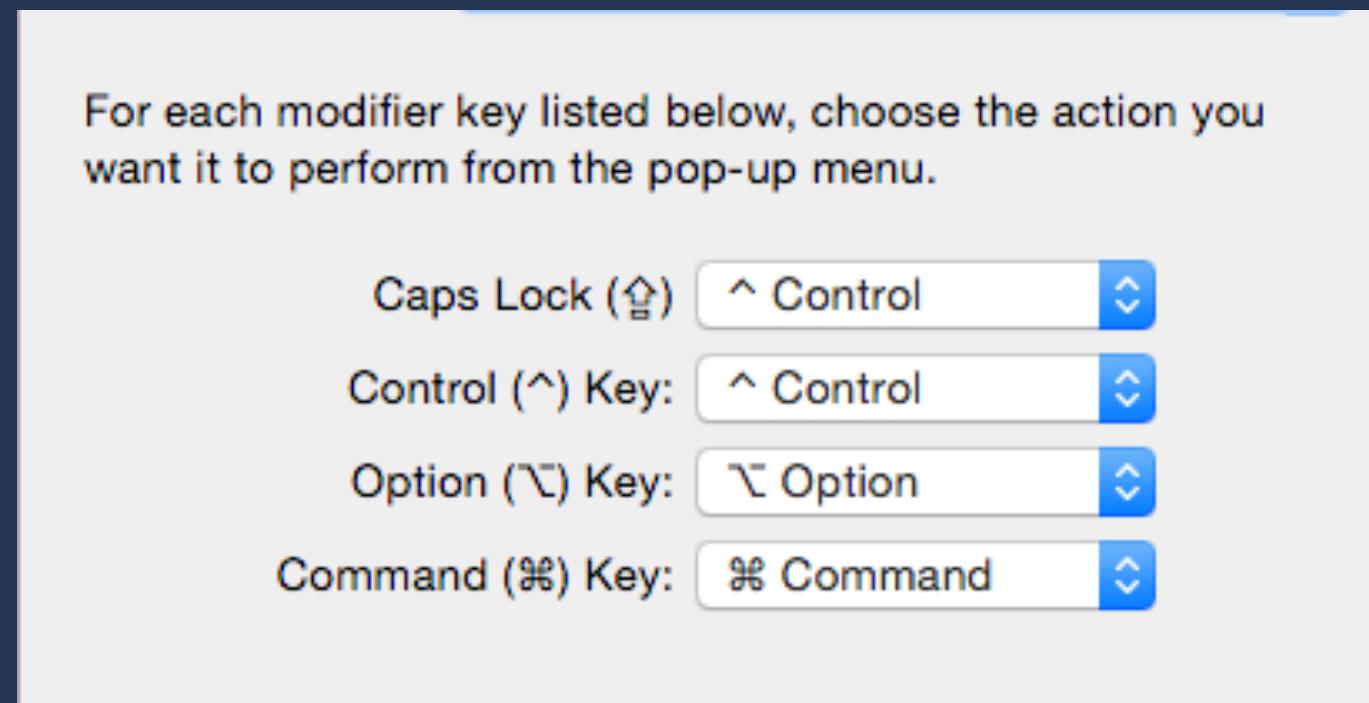
A man with dark hair and a beard is sitting at a table in a restaurant, looking down at a plate of pasta. He is wearing a light blue button-down shirt. On the table in front of him is a white plate of pasta with a fork, a glass of red wine, and a small bowl. The background shows other tables and chairs, suggesting a casual dining environment.

**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
```



```
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
❶ pasta ❷ dotfiles ❸ talk ❹ dojo ❺ 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 -a set -g
342 ````sh
1 ~
2 ![(tmux)~]((tmux)~)
3 ~
4 ![(tmux)~]((tmux)~)
5 ~
6 ----
7 ~
8 # [fit] There's a lot that tmux can do-
9 ~
10 ----
11 ~
12 # [fit] Synchronize-panes-
13 ~
14 ![(tmux)~]((tmux)~)
15 ~
16 ----
17 ~
18 # [fit] Create splits on the fly-
NORMAL ➤ ↵ master vim-workshop.md
"vim-workshop.md" 360L, 5465C written
"vim-workshop.md" 360L, 5465C written
```

# create splits on the fly

markdown utf-8[unix] 95% ↵ 342: 3 < 0 oggi 62

**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



will

and I think you will, too

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

A man with dark hair and a mustache, wearing a blue and white plaid shirt, is looking slightly to his right with a thoughtful expression. The background is a plain, light color.

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

A close-up photograph of a woman with dark hair and smoky eye makeup. She is wearing a dark, possibly black, sleeveless dress. Her gaze is directed towards the camera with a neutral expression. The lighting is dramatic, highlighting her face against a darker background.

**But share your configuration**

# dotfiles

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

## Others

- [bryanforbes/dotfiles](#)
- [jason0x43/dotfiles](#)



# Keep practicing



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