Neovim for Frontend Developers

Boosting Productivity and Creativity

RYOPPIPPI

Thank you

for inviting me!

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Living in the UK 🇬🇧

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My Favorite Vim-jp Channels

- 🕉️ vim-jp
- `#hobby-gourmet`
- `#times-ryoppippi`
- `#times-yasunori`
- `#tech-frontend`
- `#neovim`
- `#neovim-plugins`
- `#vim-jp-radio`
- `#lang-zig`
- `#game-smashbros`

Projects

... that I ('m working | 've worked) on

Vim/Neovim

nvim-pnpm-catalog-lens
Neovim plugin to show versions as diagnostics for PNPM catalog: field.

vim-ray-so
Generate a beautiful code image with https://ray.so on your Neovim/Vim

nvim-reset
Neovim plugin to disable all default keymaps with a single command

vim-bun-lock
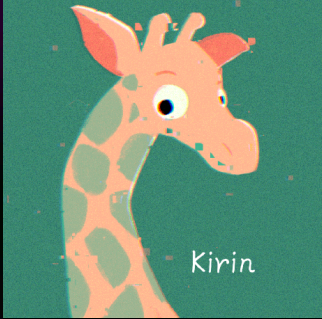If you gaze long enough into a bun.locb, the bun.locb will gaze back into you

vim-svelte-inspector
Use Svelte Inspector in Vim/Neovim!

vim-bad-apple
Do you wanna watch "Bad Apple!!" on your vim/neovim?
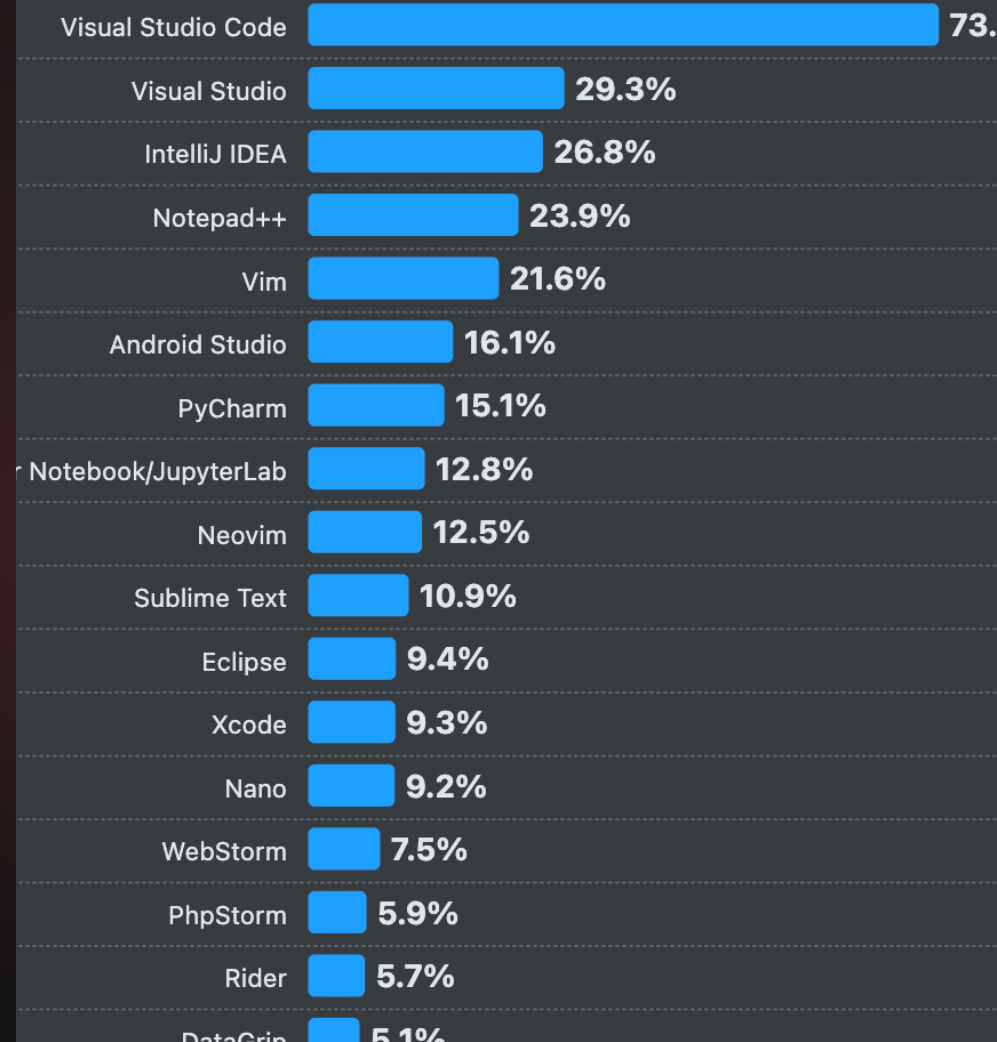
Kirin

My Editor Journey

- 2015 – 2017 Atom
- 2017 – 2022 VSCode
- 2021 – VSCode + Neovim
- 2022 – Neovim

Why VSCode?

- De-facto Standard for Editor
- StackOverflow Survey 2024

Visual Studio Code	73.
Visual Studio	29.3%
IntelliJ IDEA	26.8%
Notepad++	23.9%
Vim	21.6%
Android Studio	16.1%
PyCharm	15.1%
Notebook/JupyterLab	12.8%
Neovim	12.5%
Sublime Text	10.9%
Eclipse	9.4%
Xcode	9.3%
Nano	9.2%
WebStorm	7.5%
PhpStorm	5.9%
Rider	5.7%
DataGrip	5.1%

Why VSCode?

Good for
modern Web Frontend
Development
👇

Extensions are
written in TypeScript
👇

Easiest GUI   TypeScript first   Lots of Extensions
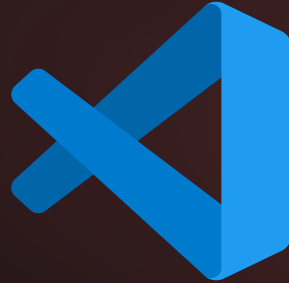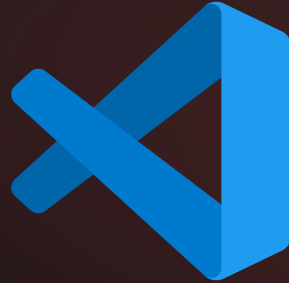
No need to pay money!!

Why not VSCode?

Non-hackable   Keyboard unfriendly

Hard to create/publish Extensinos

Why the hell did I switch to Neovim

- Just looks cool
- That's it

Thank you for Listening!

just kidding

```svelte
<svelte:head>
	<script>
		if ( localStorage.theme === 'dark' || (!('theme' in localStorage) && window.matchMedia('(prefer
s-color-scheme: dark)').matches)) {
		document.documentElement.classList.add('dark')
		} else {
		document.documentElement.classList.remove('dark')
		}
	</script>
	<meta name='theme-color' content='#ffffff' media='(prefers-color-scheme: light)' />
	<meta name='theme-color' content='#121212' media='(prefers-color-scheme: dark)' />
</svelte:head>

<style>
:global{
  ::view-transition-old(root),
  ::view-transition-new(root) {
    animation: none;
    mix-blend-mode: normal;
  }
  ::view-transition-old(root) {
    z-index: 1;
  }
  ::view-transition-new(root) {
    z-index: 9999;
  }
  .dark::view-transition-old(root) {
    z-index: 9999;
  }
  .dark::view-transition-new(root) {
    z-index: 1;
  }
```

```
16   .github/
15   .svelte-kit/
14   .sveltekit/
13   .vscode/
12   .wrangler/
11   build/
10   dist/
 9   node_modules/
 8   src/
 7   static/
 6   .eslintcache
 5 {} .eslintrc-components.json
 4   .gitattributes
 3   .gitignore
 2   .npmrc
 1 {} .secretlintrc.json
19   LICENSE
 1   README.md
 2   eslint.config.js
 3   package.json
 4   pnpm-lock.yaml
 5 JS routes.js
 6   svelte.config.js
 7 TS tsconfig.json
 8 TS uno.config.ts
 9 TS vite.config.ts
```

```
[2]─Files - Worktrees - Subm─
                        0 of 0
[3]─Local branches - Remotes─
 * ⎇ main ✓
                        1 of 4
[4]─Commits - Reflog─────────
 ⧉ 30212e4c re ⊙ chore(deps): l
 ⧉ 07bcd295 re ⊙ chore(deps): u
 ⧉ 0c2e251c re ⊙ chore(deps): u
          re ⊙ chore(deps): u
 ⧉ a2cf41fc ry ⊙ chore: udpate
 ⧉ ed6829d7 ry ⊙ fix(blog): url
 ⧉ f3cf83df ry ⊙ chore: format
 ⧉ 3192bd28 ry ⊙ fix: assets
 ⧉ 3f362584 ry ⊙ feat(blog): ka
                      4 of 300
[5]─Stash────────────────────
 4d ⧉ autostash
                        1 of 2
```

```
Author: renovate[bot]
<29139614+renovate[bot]@users.noreply.github.com>
Date:   Sun Oct 20 22:58:45 2024 +0000

    chore(deps): update pnpm to v9.12.2
---
 package.json | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/package.json b/package.json
index c866ee9..c9e24fe 100644
--- a/package.json
+++ b/package.json
 5 :  5    "private": true,
 6 :    -  "packageManager": "pnpm@9.12.1",
   :  6  +  "packageManager": "pnpm@9.12.2",
```

```
Command log──────────────────
code that you always find yourself adding when debugging.
```

Squash: s | Fixup: f | Reword: r | Drop: d | Edit: e | Amend: A | … Donate Ask Question 0.44.1

~/g/g/r/**ryoppippi.com** main ❯ nix run nixpkgs#fastfetch

```
                  ..'               ryoppippi@ryoppippi
              ,xNMM.                -------------------
           .OMMMMo                 OS: macOS Sequoia 15.0.1 arm64
           lMM"                    Host: MacBook Pro (14-inch, Nov 2023, Three Thunderbolt 4 p)
 .;loddo:.  .olloddol;.            Kernel: Darwin 24.0.0
cKMMMMMMMMMMNWMMMMMMMMMM0:         Uptime: 2 days, 14 hours, 26 mins
.KMMMMMMMMMMMMMMMMMMMMMMWd.        Packages: 123 (nix-user), 43 (nix-default), 285 (brew), 73 )
XMMMMMMMMMMMMMMMMMMMMMMMX.         Shell: fish 3.7.1
;MMMMMMMMMMMMMMMMMMMMMMMM:         Display (LG HDR WFHD): 2560x1080 @ 75 Hz in 34" [External] *
:MMMMMMMMMMMMMMMMMMMMMMMM:         Display (Color LCD): 3024x1964 @ 120 Hz (as 1512x982) in 14]
.MMMMMMMMMMMMMMMMMMMMMMMMX.        Display (PL2792H): 1080x1920 @ 75 Hz in 27" [External]
 kMMMMMMMMMMMMMMMMMMMMMMWd.        DE: Aqua
 'XMMMMMMMMMMMMMMMMMMMMMMM.        WM: Quartz Compositor
  'XMMMMMMMMMMMMMMMMMMMMMMK.       WM Theme: Multicolor (Dark)
   kMMMMMMMMMMMMMMMMMMMMMMd        Font: .AppleSystemUIFont [System], Helvetica [User]
   ;KMMMMMMMWXXWMMMMMMMMk.         Cursor: Fill - Black, Outline - White (32px)
    "cooc*"      "*coo'"           Terminal: WezTerm 20240203-110809-5046fc22
                                   Terminal Font: UDEV Gothic 35LG
                                   CPU: Apple M3 Pro (11) @ 4.06 GHz
                                   GPU: Apple M3 Pro (14) @ 1.38 GHz [Integrated]
                                   Memory: 20.64 GiB / 36.00 GiB (57%)
                                   Swap: Disabled
                                   Disk (/): 430.63 GiB / 926.35 GiB (46%) - apfs [Read-only]
                                   Disk (/Volumes/Samsung_T5): 480.96 GiB / 837.87 GiB (57%) -]
                                   Disk (/Volumes/WINDOWS): 33.62 GiB / 93.19 GiB (36%) - exfa]
                                   Local IP (en6): 10.69.74.203/20
                                   Battery (bq40z651): 80% [AC connected]
                                   Power Adapter: 85W
                                   Locale: en_US.UTF-8
```

```
TS uno.config.ts > α theme > 🎨 colors > 🎨 text
27  const theme = {
28    colors: {
29      accent: {
30        100: '🟥 #FF6B6B',
31        200: '🟥 #dd4d51',
32        300: '🟥 #8f001a',
33      },
34      text: {
35        100: '⬜ #FFFFFF',
36        150: '⬜ #fafafa',
37        200: '⬜ #e0e0e0',
38        300: '⬛ #b3b3b3',
39        400: '⬛ #808080',
40        500: '⬛ #4d4d4d',
41        600: '⬛ #262626',
42        700: '⬛ #1a1a1a',
43        800: '⬛ #0f0f0f',
44      }, ⟶ text: {
45      bg: {
46        base: ' ⬛ #0F0F0F',
47        100: '⬛ #1E1E1E',
48        200: '⬛ #2d2d2d',
49        300: '⬛ #454545',
```

Why the hell did I switch to Neovim?

Just write Vim script or Lua & publish it on GH
👇

Hackable

Keyboard friendly

Easy to customise

Terminal friendly

Fast & Lightweight

Do Neovim REALLY work for web frontend development?

Web Frontend Development is too complicated

```
 .husky
 .vscode
 build
 src
   assets
   lib
     Background
     Heading
     Konami
     Logo
     links
     utils
       TS runes.svelte.ts
       TS url.ts
   routes
     404
     +error.svelte
     TS +layout.server.ts
     +layout.svelte
     TS +page.server.ts
     +page.svelte
   TS app.d.ts
   app.html
   TS shims.d.ts
 static
 * .eslintcache
 .gitignore
 .npmrc
 README.md
 eslint.config.js
 package.json
 pnpm-lock.yaml
 {} renovate.json5
 svelte.config.js
 TS tsconfig.json
 TS uno.config.ts
 TS vite.config.ts
```

- Config files
  - Vite / Webpack / Tailwind CSS ...
  - ESLint / Prettier ...
- Package.json / Lock file
- Assets (Images / Icons / Fonts)
- CSS
  - SCSS / SASS / CSS Modules
  - Tailwind CSS
- JavaScript / TypeScript
- Markups
  - TSX / JSX
  - Svelte / Vue / Astro

What do we want to editors for web frontend development?

- Supports syntax highlighting for various languages
- Supports auto-completion for various languages
- Supports documentation for various languages
- Supports managing lots of files
- Supports integration with other CLI tools
- Supports testing

… That's a lot!!!

Can we REALLY do them with Neovim?

A man said…

Vim can do that too

それ、vimでもできるよ

🏃 MATTN

Demo

Setup a project

Terminal integration

- ugaterm.nvim by 🖼 UGA-ROSA
- Open any type of terminal in Neovim including floating terminal

LSP (Language Server Protocol)

- a protocol to communicate between editor and language server

Tree-sitter

- a parser generator tool and an incremental parsing library
- provides syntax highlighting, code folding, and more

- Code completion

  - **nvim-cmp** by HRSH7TH

- Diagnostics / Information

  - **lsp_lines.nvim**
  - **nvim-highlight-colors** by BRENOPRATA10

- LSPs

  - **nvim-vtsls** by YIONEKO
  - **nvim-lspconfig** by NEOVIM
  - **efm-langserver** by MATTN
  - **sveltejs/language-tools** by SVELTEJS
  - **@tailwindcss/language-server** by TAILWINDCSS

Enhance your editing files

- Make use of the builtin text-objects!

- Surround text with tags, quotes, etc.

  - mini.surround by 🄴 ECHASNOVSKI
  - nvim-insx by 🧑 HRSH7TH

- Toggle / switch numbers, symbols, text case, etc.

  - dial.nvim by Ⓜ MONAQA

- Code suggestion by AI

  - copilot.lua by 🤠 ZBIRENBAUM   + nvm-cmp
  - codecompanion.nvim by 👩🏻‍💻 OLIMORRIS

Testing

- neotest by 🔲 RCARRIGA
  - A framework for interacting with tests within NeoVim.
  - You can run tests and see the results in a Neovim

File Management

- oil.nvim

- made by 🦀 STEVEARC

- A plugin to manage files as buffer

- You can yank, delete, and paste files like editing text

- **You can use snippet** 🎉

  - I use vim-sonictemplate by 🧑 MATTN

- VSCODE cannot do that

File Switching

- other.nvim by RGROLI
  - You can switch related files easily (ex. sever and client files)

WebBrowser integration

- vim-svelte-inspector by 🪂 RYOPPIPPI
  - You can integrate browser inspector with Neovim

Git Integration

- Git command operation

  - lazygit by 🧑 JESSEDUFFIELD

  -
    ```lua
    vim.api.nvim_create_user_command("TG", function()
      vim.cmd.tabe()
      vim.fn.termopen("lazygit", {
        on_exit = function(_, _, _)
          vim.cmd.tabclose()
        end,
      })
      local current_buffer = vim.api.nvim_get_current_buf()
      vim.keymap.set("t", "<esc>", "<esc>", { buffer = current_buffer, remap = false })
    end, { nargs = 0 })
    ```

  - gitsigns.nvim by 🧑 LEWIS6991

  - git-conflict.nvim by 🧑 AKINSHO

Conclusion

Conclusion

- Neovim is a great editor for frontend developers
- Neovim has good plugins for frontend development
- If you are a VSCode user and want to try Neovim, I recommend you to try it

Other plugins I didn't mention in this talk

- nvim-pnpm-catalog-lens by RYOPPIPPI
- vim-bun-lock by RYOPPIPPI
- nvim-dap by MFUSSENEGGER
- denippet.vim by UGA-ROSA
- telescope.nvim started by TJDEVRIES

…

Thank you!