

Vue 项目配置：最佳实践与个人偏见

蒋豪群 / 2022

关于我

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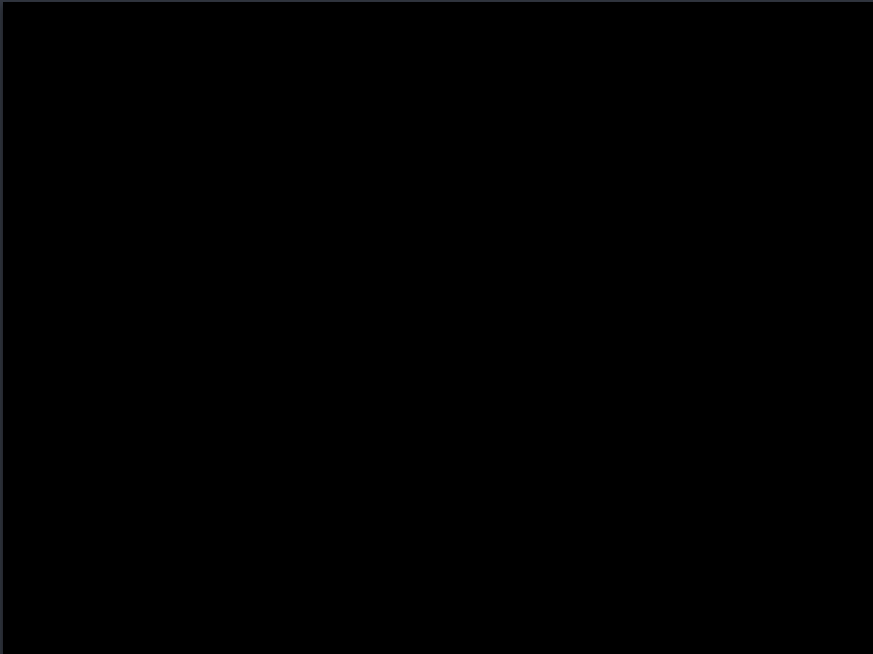
 Vue /  Vite 团队成员

 @sodatea

 @haoqunjiang

创建 Vue 项目 (2022 版)

```
npm create vue@3
```



```
npm create vite@latest
```



脚手架的维护成本

- 复杂的模板逻辑耦合

```
packages > @vue > cli-plugin-router > generator > template-vue3 > src > router > index.js
You, 13 months ago | 1 author (You)
1 import { createRouter<%
2   · if (historyMode) {
3   ·   · %>, createWebHistory<%
4   · } else {
5   ·   · %>, createWebHashHistory<%
6   · }
7
8   · if (hasTypeScript) {
9   ·   · %>, RouteRecordRaw<%
10  · }
11  · %> } from 'vue-router'
12 import HomeView from '../views/HomeView.vue'
13
14 const routes<% if (hasTypeScript) { %>: Array<RouteRecordRaw><% } %> = [
```

脚手架的维护成本

- 复杂的模板逻辑耦合
- 过多的依赖、不一致的更新节奏

```
packages > @vue > cli-service > package.json > {} dependencies
25     "dependencies": {
52       "dotenv": "^10.0.0",
53       "dotenv-expand": "^5.1.0",
54       "fs-extra": "^9.1.0",
55       "globby": "^11.0.2",
56       "hash-sum": "^2.0.0",
57       "html-webpack-plugin": "^5.1.0",
58       "is-file-esm": "^1.0.0",
59       "launch-editor-middleware": "^2.2.1",
60       "lodash.defaultsdeep": "^4.6.1",
61       "lodash.mapvalues": "^4.6.0",
62       "mini-css-extract-plugin": "^2.5.3",
63       "minimist": "^1.2.5",
64       "module-alias": "^2.2.2",
65       "portfinder": "^1.0.26",
66       "postcss": "^8.2.6",
67       "postcss-loader": "^6.1.1",
68       "progress-webpack-plugin": "^1.0.12",
69       "ssri": "^8.0.1",
70       "terser-webpack-plugin": "^5.1.1",
71       "thread-loader": "^3.0.0",
72       "vue-loader": "^17.0.0",
73       "vue-style-loader": "^4.1.3",
74       "webpack": "^5.54.0",
75       "webpack-bundle-analyzer": "^4.4.0",
76       "webpack-chain": "^6.5.1",
77       "webpack-dev-server": "^4.7.3",
78       "webpack-merge": "^5.7.3",
79       "webpack-virtual-modules": "^0.4.2",
80       "whatwg-fetch": "^3.6.2"
81     },
```

脚手架的维护成本

- 复杂的模板逻辑耦合
- 过多的依赖、不一致的更新节奏
- 升级脚本难写、难适配、难以面面俱到

目前的解决方案

- 「小而美」的独立脚手架项目 `create-vue` / `create-vite` / `degint`
- 升级方案：模板快照 + `git diff`

```
git clone https://github.com/vuejs/create-vue-templates.git
cd create-vue-templates
git log --since="2022.08.10" -p typescript-jsx-vitest
```

```
commit 542b43b05c8548ba100f6147e89b448de1d574e8 (HEAD → main, tag: v3.4.1, origin/main, origin/HEAD)
Author: Haoqun Jiang <haoqunjiang@gmail.com>
Date:   Fri Nov 25 19:21:38 2022 +0800
```

```
    version 3.4.1 snapshot
```

```
diff --git a/typescript-jsx-vitest/package.json b/typescript-jsx-vitest/package.json
```

```
index 4f97678..25f7eee 100644
```

```
--- a/typescript-jsx-vitest/package.json
```

```
+++ b/typescript-jsx-vitest/package.json
```

```
@@ -1,6 +1,7 @@
```

```
{
  "name": "typescript-jsx-vitest",
  "version": "0.0.0",
+  "private": true,
  "scripts": {
    "dev": "vite",
    "build": "run-p type-check build-only",
```

```
@@ -10,20 +11,20 @@
```

```
    "type-check": "vue-tsc --noEmit -p tsconfig.vitest.json --composite false"
  },
```

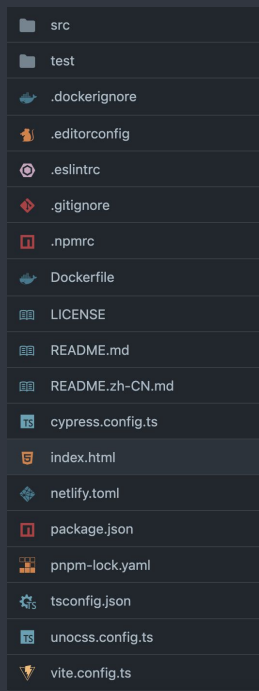
```
  "dependencies": {
```

```
-    "vue": "^3.2.41"
```

```
+    "vue": "^3.2.45"
```

```
  },
```


配置文件如何管理？



现状：

- 工具配置文件越来越分散、很多不再是 JSON 格式
- 如果选择封装、隐藏，复杂度会成倍提升
- 并且很多工具完全不支持封装

- > packages
- > scripts
- > test
- > .gitignore
- > .gitattributes
- > package.json
 - .editorconfig
 - .eslintignore
 - .eslintrc
 - .npmrc
 - .tazerc.json
 - netlify.toml
 - pnpm-lock.yaml
 - pnpm-workspace.yaml
 - tsconfig.json
 - vercel.json
- > README.md
 - AUTHORS
 - CHANGELOG.md
 - CODE_OF_CONDUCT.md
 - CODEOWNERS
 - CONTRIBUTING.md
 - LICENSE
- > vite.config.ts
 - .env
 - postcss.config.js
 - unocss.config.ts
 - vitest.config.ts

Anthony's

File Nesting Config

for VS Code



- > packages
- > scripts
- > test
- > .gitignore
- > package.json
- > README.md
- > vite.config.ts

Dev Server 端口

常见开发端口：

3000、5000、8000、8080

问题：

常用端口冲突概率更高，冲突后：

1. 实际使用的端口号不确定，
影响其他工具整合
2. 稍复杂的网络环境下，
会出现难以察觉的错误

```
haoqun at mbp2021 in ~/Test/port-tests
$ cat test.js
import http from 'node:http'

const server1 = http.createServer()
const server2 = http.createServer()

server1.listen(3000, '0.0.0.0')
server2.listen(3000, '127.0.0.1')

server1.once('listening', () => server1.close())
server2.once('listening', () => server2.close())

haoqun at mbp2021 in ~/Test/port-tests
$ node test.js

haoqun at mbp2021 in ~/Test/port-tests
$
```

Dev Server 端口

Leet-speak:

黑客语, 用数字或符号代替单词中的字母

例:tombkeeper \Rightarrow t0mbkeeper

ThisIsMyPassword \Rightarrow 7hI5isMYpA22W0RD

VITE \Rightarrow 5173

依赖管理：npm / yarn / pnpm

- 性能：pnpm \approx yarn > npm
- 功能对比：pnpm \approx yarn > npm
 - 内置 pnpm patch / yarn patch vs 第三方 patch-package
 - pnpm 与 yarn 默认均不允许使用幻影依赖
- 兼容性：有了 @yarnpkg/extensions 之后，常用依赖基本没问题
- 个人意见：pnpm 略优于 yarn，因为 Yarn PnP 偶尔还是会存在不兼容

Lint : 现状

≈ 如何正确使用 ESLint

↓ Weekly Downloads

29,758,595



Linters: 现状

≈ 如何正确使用 ESLint

± Weekly Downloads

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[Open](#) [36 of 58 tasks](#) **Implement Flat Config** #13481
nzakas opened this issue on Jul 11, 2020 · 17 comments

☐ [Change Request: Specifying files and ignores for eslint:recommended/eslint:all](#) #16537

Phase 3: Compatibility testing

- ☐ Work with `eslint-config-airbnb` to switch to new format and ensure it works correctly
- ☐ Work with `eslint-config-standard` to switch to new format and ensure it works correctly
- ☐ Work with `eslint-plugin-node` to switch configs to new format and ensure it works correctly
- ☐ Work with `eslint-plugin-vue` to switch configs to new format and ensure it works correctly
- ☐ Work with `eslint-plugin-react` to switch configs to new format and ensure it works correctly
- ☐ Switch ESLint config to load external configs/plugins without `FlatCompat`
- ☐ Release ESLint with extended compatibility

Phase 4: General availability

- ☐ Write blog post about flat config format
- ☐ Output warning when people use `eslinttrc` files
- ☐ Switch documentation so `eslint.config.js` is the default and recommended format (link to legacy `eslinttrc` docs from the same page)
- ☐ Switch documentation for shareable configs to flat config format (links to legacy docs included)
- ☐ Switch documentation for plugins to flat config format (links to legacy docs included)
- ☐ Release ESLint with GA flat config

Lint : 现状

≈ 如何正确使用 ESLint

↓ Weekly Downloads

29,758,595



eslint/eslint

#16557 Complete rewrite of ESLint



Ideas



35 comments



nzakas opened on October 31, 2022



Linters: 没有完美的最佳实践

个人意见:

```
examples > create-vue-ts > .eslintrc.cjs > ...
```

You, 4 months ago | 1 author (You)

```
1 require(id: '@rushstack/eslint-patch/modern-module-resolution');
2
3 module.exports = {
4   root: true,
5   extends: [
6     'plugin:vue/vue3-essential',
7     '@vue/eslint-config-airbnb-with-typescript',
8   ],
9   };

```

Install

```
> npm i @rushstack/eslint-patch
```

Repository

github.com/microsoft/rushstack

Homepage

rushstack.io

Weekly Downloads

4,638,781



Linters : TypeScript 支持

🕒 Support for Project References

#2094 opened on May 25, 2020 by [bradzacher](#)

accepting prs

enhancement

help wanted

package: typescript-estree

performance

🕒 Looking for champion to better support Vue in typescript-eslint

#1296 opened on Sep 10, 2020 by [sbillet](#)

feat: typescript

help wanted

Linters : 没有完美的最佳实践

个人意见 :

如果想要用 ESLint 检查类型相关的问题

则在 .vue 文件中, 最好只用

`<script lang="ts">` 和 `<script setup lang="ts">`

不写纯 JS

可以有较为完整的 TypeScript-ESLint 体验

Formatter

- 最流行的 Airbnb 样式规范仍然是作为 ESLint 配置发布
- 但是：
 - ESLint 自 2020 年起冻结了样式规则的新增
 - Prettier 的结果更一致、性能更佳
- 个人意见：
 - 样式规则没必要在编辑器 / IDE 里展示
 - 使用 Prettier, 并且抛弃 eslint-plugin-prettier
 - 关注 Rome (使用 Rust 实现、性能更好、体积更小、功能尚不全)

总结

- 脚手架
 - 最佳实践：如无必要，避免大而全
- 配置文件管理
 - 个人意见：在编辑器 / IDE 里隐藏，不过度封装工具
- 依赖管理
 - 最佳实践：多考虑 npm 官方 CLI 以外的选择
 - 个人意见：pnpm > yarn > npm
- Linter
 - 最佳实践：目前不存在；尽最大努力发挥工具价值即可
- Formatter
 - 最佳实践：停止混用 ESLint 和 Prettier
 - 个人意见：建议使用 Prettier