创建项目

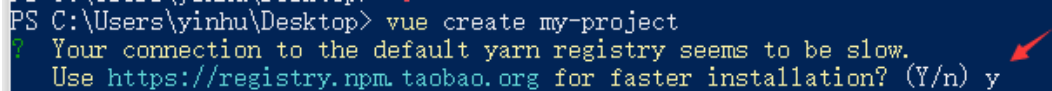### 全局安装 VUE-CLI 工具

执行下面的命令，安装工具包，如果提示权限问题，切换到 root(linux、macos)或管理员运行(windows)即可

npm install -g @vue/cli

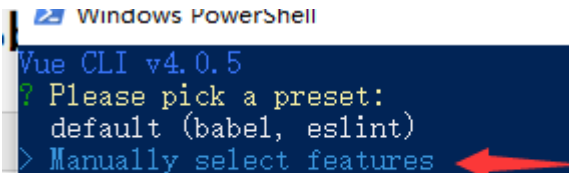### 初始化项目

1. 执行：vue create my-project，其中 my-project 表示文件夹/项目名称

2. 选择是否用 taobao 源替换 Npm 源，国内一般选 Y

3. **选择项目内容，选择第 2 项，因为我们还要使用 TYPESCRIPT、ROUTER 等工具**

4. **除了两个测试模块，其它全部选中。如果项目人手充足，也可以加上测试模块**

```
Vue CLI v4.0.5
? Please pick a preset: Manually select features
? Check the features needed for your project:
 (*) Babel
 (*) TypeScript
 (*) Progressive Web App (PWA) Support
 (*) Router
 (*) Vuex
 (*) CSS Pre-processors
>(*) Linter / Formatter
 ( ) Unit Testing
 ( ) E2E Testing
```

5. 后面的使用默认值即可，直到出现下图选项，按烽火惯例选择 less


```
? Pick a CSS pre-processor (PostCSS, Autoprefixer and CSS Modules are supported by default):
  Sass/SCSS (with dart-sass)
  Sass/SCSS (with node-sass)
> Less
  Stylus
```

6. Eslint 选项，使用 eslint + prettier


```
? Pick a linter / formatter config:
  ESLint with error prevention only
  ESLint + Airbnb config
  ESLint + Standard config
> ESLint + Prettier
  TSLint (deprecated)
```

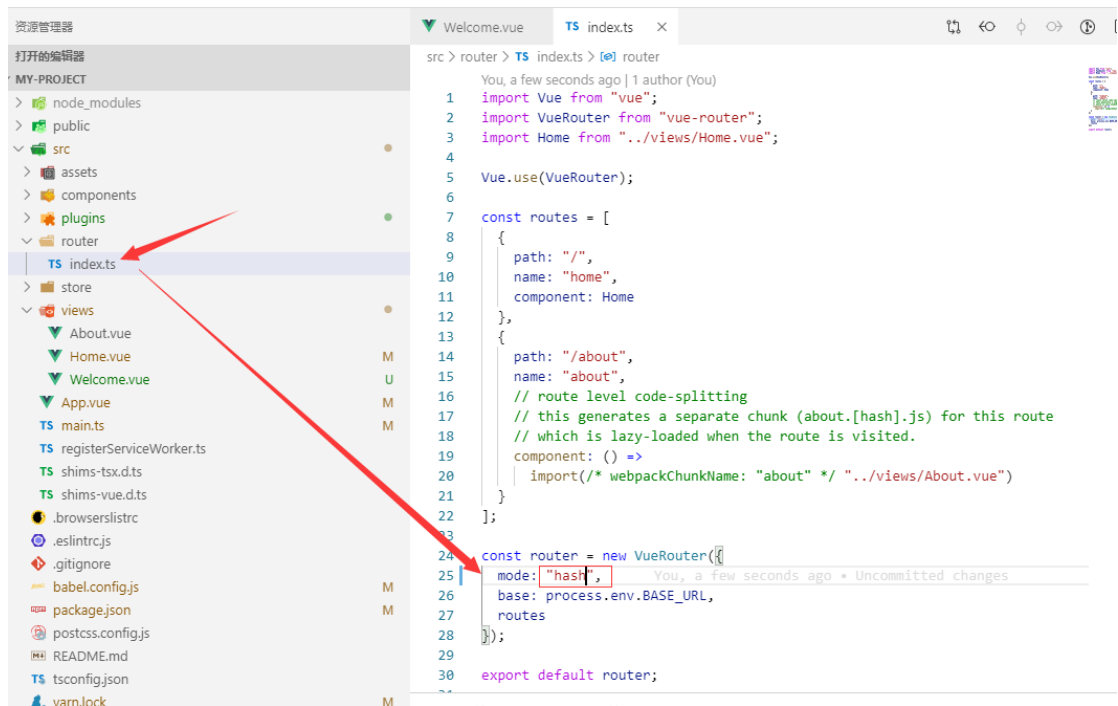7. 检查代码规范的时机，全选


```
? Pick a linter / formatter config: Prettier
? Pick additional lint features: (Press <space> to select, <a> to toggle all, <i> to invert selection)
>(*) Lint on save
 (*) Lint and fix on commit
```
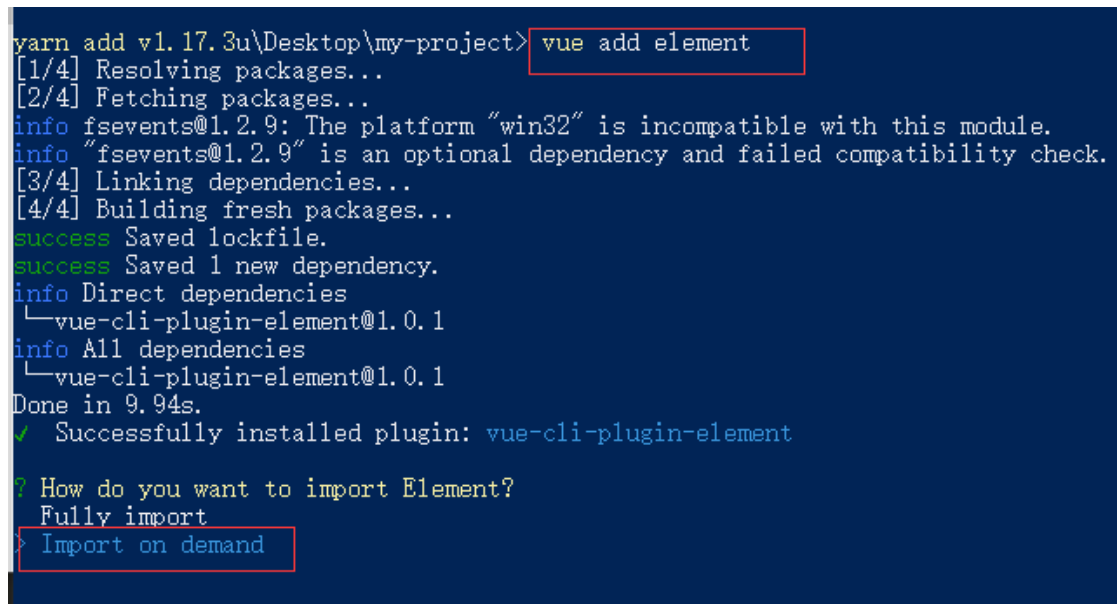
路由修改为 HASH

按下图修改为 hash 即可

```
      资源管理器                    Welcome.vue      TS index.ts  ×
      打开的编辑器                src > router > TS index.ts > [ø] router
      MY-PROJECT                      You, a few seconds ago | 1 author (You)
    > node_modules              1    import Vue from "vue";
    > public                    2    import VueRouter from "vue-router";
    ∨ src                    ●  3    import Home from "../views/Home.vue";
      > assets                   4
      > components               5    Vue.use(VueRouter);
      > plugins               ●  6
      ∨ router                   7    const routes = [
        TS index.ts             8      {
      > store                   9        path: "/",
      ∨ views                ●  10        name: "home",
          About.vue           11        component: Home
          Home.vue         M  12      },
          Welcome.vue      U  13      {
        App.vue            M  14        path: "/about",
        main.ts            M  15        name: "about",
        registerServiceWorker.ts  16        // route level code-splitting
        shims-tsx.d.ts      17        // this generates a separate chunk (about.[hash].js) for this route
        shims-vue.d.ts      18        // which is lazy-loaded when the route is visited.
        .browserslistrc     19        component: () =>
        .eslintrc.js        20          import(/* webpackChunkName: "about" */ "../views/About.vue")
        .gitignore          21      }
        babel.config.js  M  22    ];
        package.json     M  23
        postcss.config.js   24    const router = new VueRouter({
        README.md           25      mode: "hash",      You, a few seconds ago • Uncommitted changes
        tsconfig.json       26      base: process.env.BASE_URL,
        yarn.lock        M  27      routes
                            28    });
                            29
                            30    export default router;
```

添加 ELEMENT-UI

1. 执行： vue add element
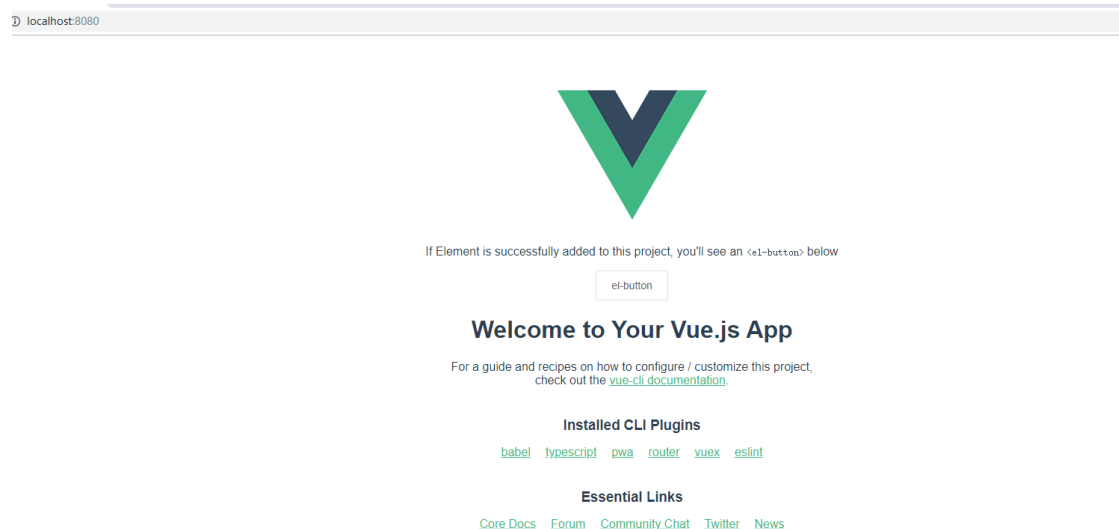
2. 选择按需加载：Import on demand


```
yarn add v1.17.3u\Desktop\my-project> vue add element
[1/4] Resolving packages...
[2/4] Fetching packages...
info fsevents@1.2.9: The platform "win32" is incompatible with this module.
info "fsevents@1.2.9" is an optional dependency and failed compatibility check.
[3/4] Linking dependencies...
[4/4] Building fresh packages...
success Saved lockfile.
success Saved 1 new dependency.
info Direct dependencies
└─ vue-cli-plugin-element@1.0.1
info All dependencies
└─ vue-cli-plugin-element@1.0.1
Done in 9.94s.
✓  Successfully installed plugin: vue-cli-plugin-element

? How do you want to import Element?
  Fully import
> Import on demand
```

3. 选择简体中文语言包：zh-CN

4. 运行项目：npm run serve。看到如下页面，表示项目初始化完成

添加一个自定义组件

此处假设读者对 VUE 语法已有了解，如需学习 vue 语法，请参考 https://cn.vuejs.org/
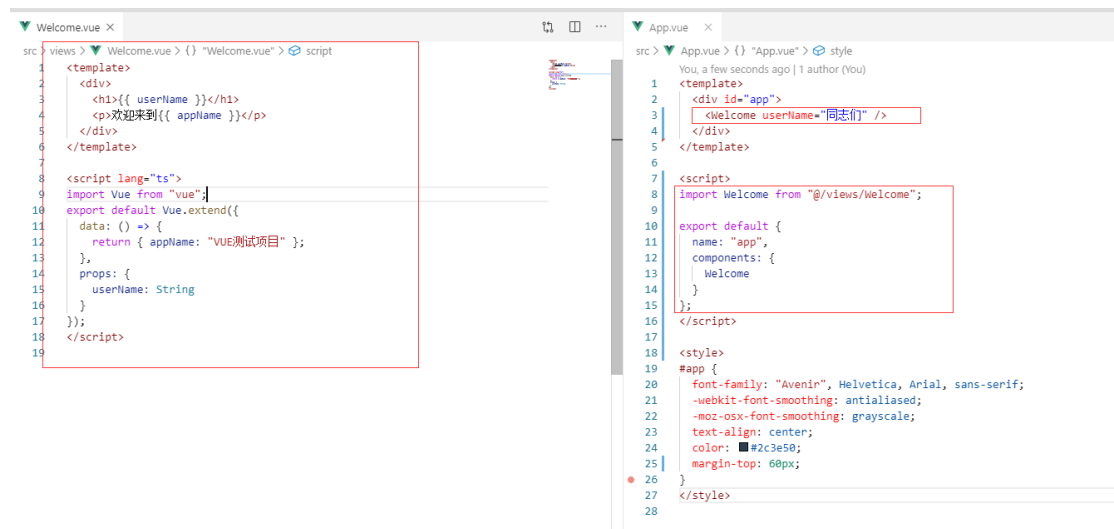
按下图代码，在 views 目录中添加 Welcome.vue 文件，并在 App.vue 中使用。

此组件展示了两项内容：

1. data-组件内数据
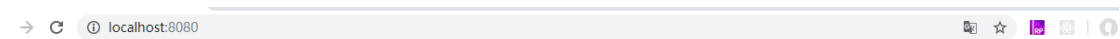
2. props-组件外数据

如果运行成功，看到页面如下

CSS-MODULE

按下图添加样式代码，其中

1. style 标签必须添加 module。

2. 设置样式名必须使用 v-bind:class 而非 class。

3. $style 是约定的对象名称，vue 中大量使用了约定名称（有的有简写），需要在使用中记住这些名称。

```
1   <template>
2     <div>
3       <h1>{{ userName }}</h1>
4       <p v-bind:class="$style.Welcome">欢迎来到{{ appName }}</p>
5     </div>
6   </template>
7
8   <script lang="ts">
9   import Vue from "vue";
10  export default Vue.extend({
11    data: () => {
12      return { appName: "VUE测试项目" };
13    },
14    props: {
15      userName: String
16    }
17  });
18  </script>
19
20  <style lang="less" module>
21  .Welcome {
22    color: red;
23  }
24  </style>
25
```
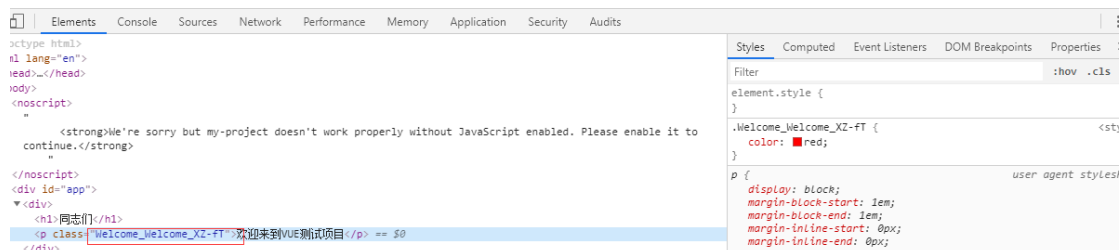
如果运行成功，应看到如下界面

← C ⓘ localhost:8080

同志们

欢迎来到VUE测试项目

Elements Console Sources Network Performance Memory Application Security Audits

```
octype html>
nl lang="en">
ead>…</head>
ody>
<noscript>
    "
    <strong>We're sorry but my-project doesn't work properly without JavaScript enabled. Please enable it to
continue.</strong>
    "
</noscript>
<div id="app">
▼<div>
    <h1>同志们</h1>
    <p class="Welcome_Welcome_XZ-fT">欢迎来到VUE测试项目</p> == $0
  </div>
```

Styles Computed Event Listeners DOM Breakpoints Properties

Filter   :hov .cls

element.style {
}

.Welcome_Welcome_XZ-fT {   <sty
  color: red;
}

p {   user agent stylesh
  display: block;
  margin-block-start: 1em;
  margin-block-end: 1em;
  margin-inline-start: 0px;
  margin-inline-end: 0px;
}

IDE 配置

在项目中新建目录.vscode，把下方文件复制到里面即可。

settings.json

其它参考

本机代理

https://cli.vuejs.org/zh/config/#devserver-proxy

PUBLICPATH

https://cli.vuejs.org/zh/config/#publicpath