

Navigating Vue Apps with Routing



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Routing with the Vue Router

Navigating between multiple pages (aka views) while maintaining the browser's history.

<https://router.vuejs.org/>



Vue Router Features

Modular,
component-based
configuration

Navigation API

Route parameters

Links with
automatic active
CSS class

HTML5 history
mode or hash
mode



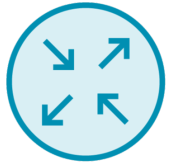
How do we ...



Add routing to our app and maintain browser history?



Add menus and navigate to the views?



Define routes?



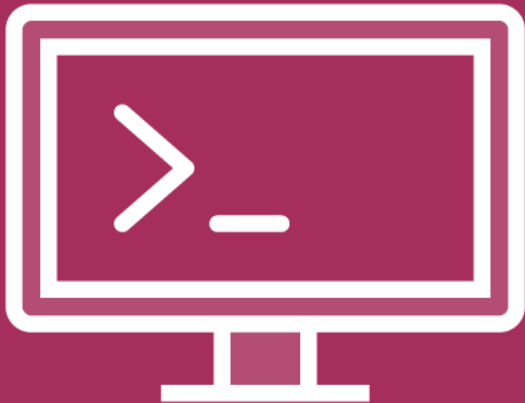
Pass parameters with the routes?



Eager and lazily load components?



Demo



Adding Routing to Your App



Adding Routing to Your Vue App

1

Add the router to your Vue app

2

Define your routes

3

Tell your app about the routes

4

Add nav links and a place for the components to display

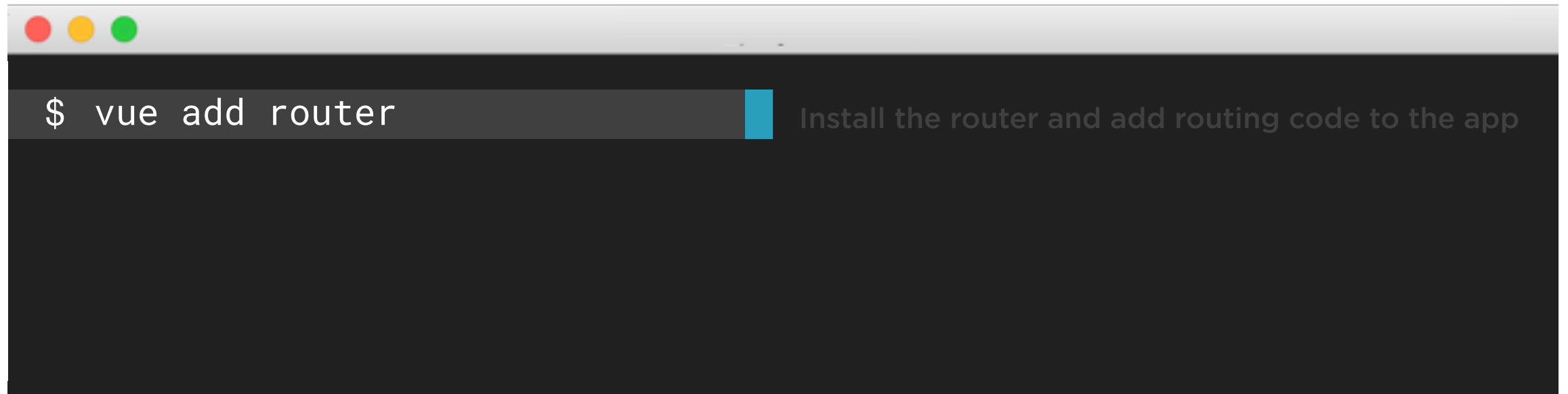


Installing the Vue Router

Easiest way is to use the Vue CLI's **vue add** syntax

<https://router.vuejs.org/>

<https://cli.vuejs.org/>



```
$ vue add router
```

Install the router and add routing code to the app



Add the Router to Vue

Import the route definitions

Add the routes to the app

The Vue CLI does the work for you

`vue add router`

main.js

```
import Vue from 'vue';  
import App from '@app.vue';  
import router from './router';  
  
new Vue({  
  router,  
  render: h => h(App)  
}).$mount('#app');
```



```
Vue.use(Router);
```

Add the router to this app

```
export default new Router({
```

```
  mode: 'history',
```

Enable history mode

```
  base: process.env.BASE_URL,
```

```
  routes: [
```

```
    { path: '/', redirect: '/heroes' },
```

Default route

```
    { path: '/heroes', name: 'heroes', component: Heroes },
```

```
    { path: '/villains', name: 'villains', component: Villains },
```

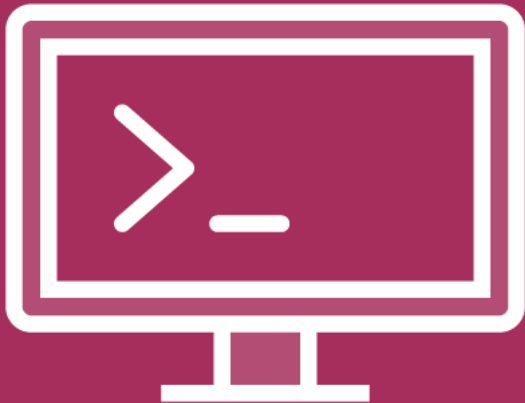
```
    { path: '*', component: NotFound }
```

```
  ]
```

```
});
```



Demo



Adding Navigation



Routing in the Template

The Vue CLI adds the `<router-view>` and some `<router-link>` components

Modify them as you need

app.vue

```
<div id="app">
```

```
  <div id="nav">
```

```
    <router-link to="/">Villains</router-link>|
```

```
    <router-link to="/heroes">Heroes</router-link>
```

Navigate to this route

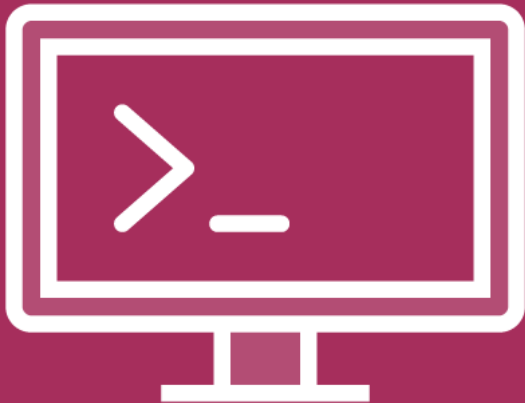
```
  </div>
```

```
  <router-view/>
```

Put the component
that you navigate to,
here

```
</div>
```

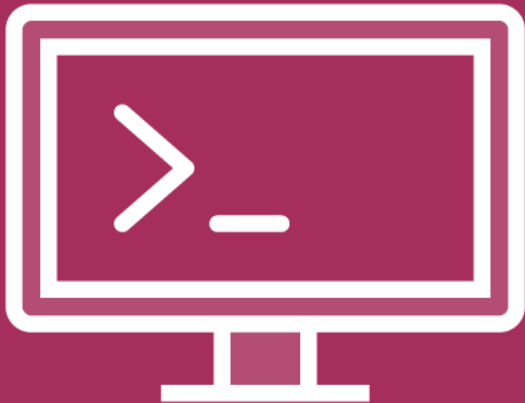
Demo



Defining and Passing Route Parameters



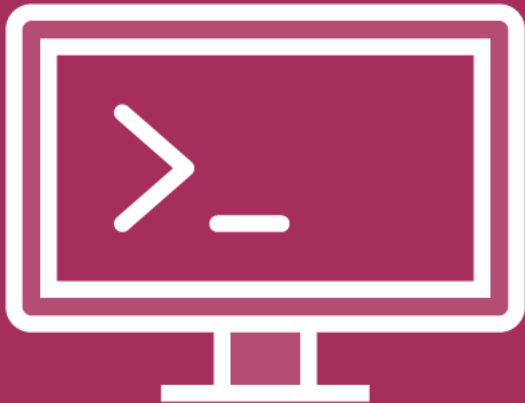
Demo



Pass Router Parameters to Props



Demo



Eager and Lazy Loading





Eager and Lazy Loading

Eager loads when the app loads

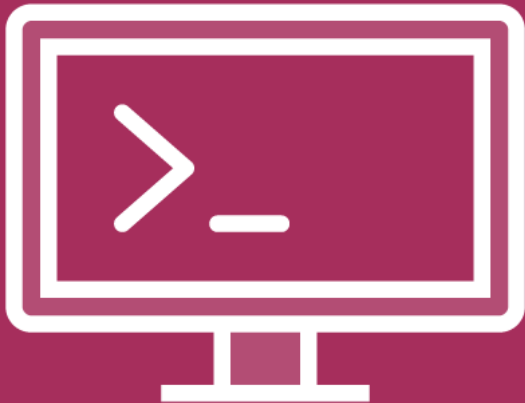
Lazy loads on demand

Lazy load routes with the **import** syntax

Name the “chunks” (the bundles) with inline comments



Demo



Navigate via Code



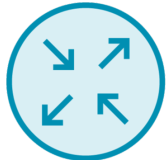
What We Learned



Add routing with the Vue CLI



Create navigation links with `<router-link>`



Define route names, paths, and components in `router.js`



Pass parameters and receive them as props



How to eager and lazily load components



Summary



The Vue Router is simple yet powerful

Vue Dev Tools are essential for debugging

Vue Router docs <https://router.vuejs.org/>

