

คพ494

หัวข้อพิเศษทางวิทยาการคอมพิวเตอร์ 1

ROUTER



Standard
Library

COURSE OUTLINE

- ▶ Introduction
 - instance, syntax, setup
- ▶ Interact with DOM
 - binding, event, styling
- ▶ v-if, v-for
- ▶ Module
- ▶ Component
- ▶ FORM
- ▶ Animations
- ▶ Http
- ▶ **Routing**
- ▶ Vue Native

VUE ROUTER

- ▶ Vue Router is the **official router** for `Vue.js`.
 - Nested route/view mapping
 - Modular, component-based router configuration
 - Route params, query, wildcards
 - View transition effects powered by Vue.js' transition system
 - Fine-grained navigation control
 - Links with automatic active CSS classes
 - HTML5 history mode or hash mode, with auto-fallback in IE9
 - Customizable Scroll Behavior



VUE

IN THE REAL WORLD

REAL DEVELOPMENT VUE-CLI

- ▶ \$ vue create mju-router
- ▶ \$ cd mju-router
- ▶ \$ npm run serve
- ▶ localhost:8080



```
? Please pick a preset:  
  default (babel, eslint)  
➤ Manually select features
```

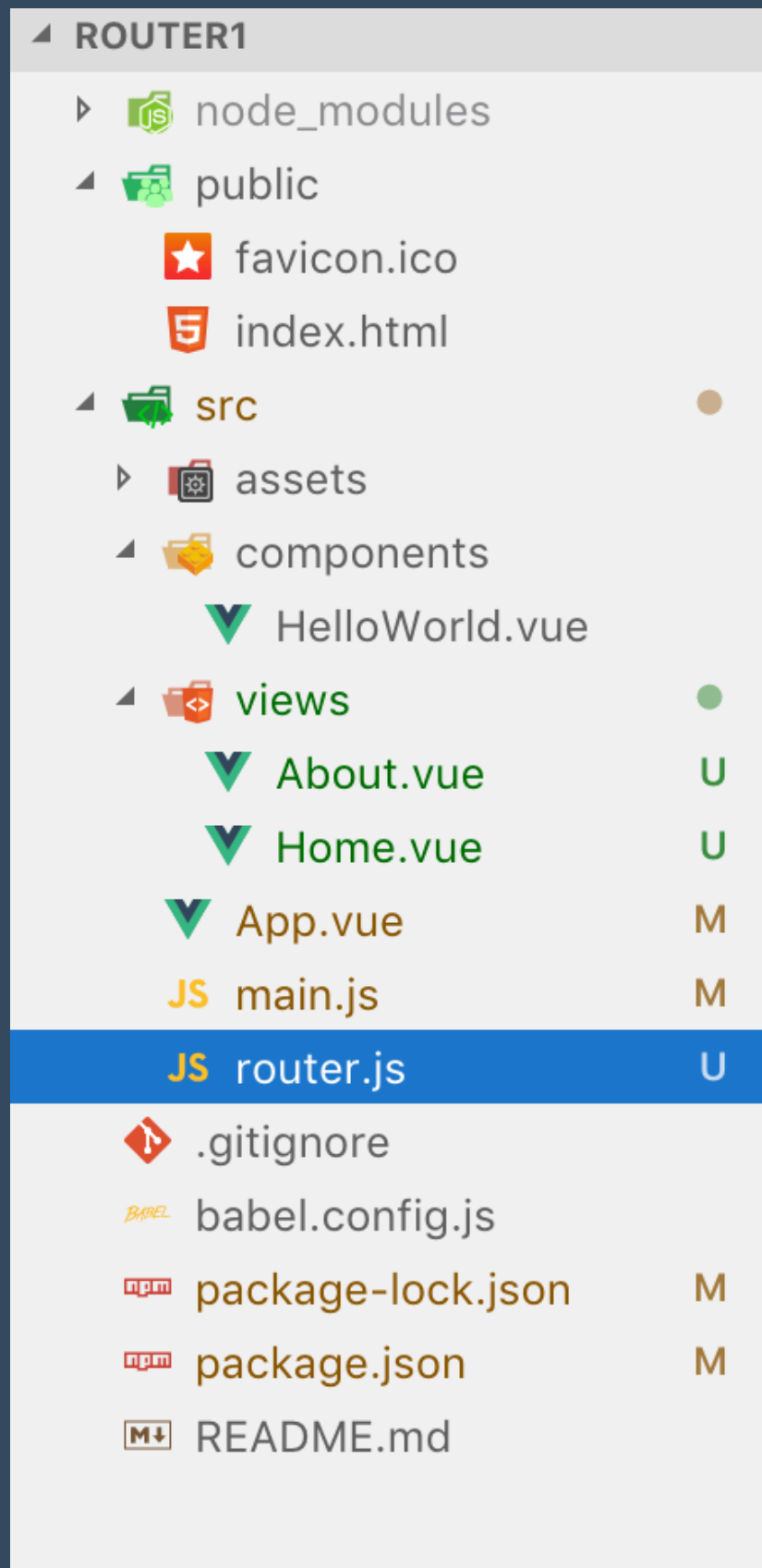


```
? Check the features needed for your project:  
☐ TypeScript  
☐ Progressive Web App (PWA) Support  
☒ Router  
☒ Vuex  
☐ CSS Pre-processors  
➤ ☒ Linter / Formatter  
☐ Unit Testing  
☐ E2E Testing
```

★ \$ vue ui

★ Install plugin/dependencies "vue-router"

VUE PROJECT



- ▶ **node_modules** : libraries
- ▶ **public** : any static assets you don't want to be run through Webpack when we build our project
- ▶ **assets** : directory so they can be optimized by Webpack
- ▶ **components** : components, or building blocks, of our Vue app.
- ▶ **App.vue** : file is the root component that all other components are nested within
- ▶ **main.js** : file is what renders our App.vue component and mounts it to the DOM
- ★ **views** : directory for views routing
- ★ **router.js** : Routing Configuration file

GETTING STARTED

App.vue

<div>

<router-link>

<router-link>

<router-link>



<router-view>

GETTING STARTED

main.js

render (auto injected)

index.html

App.vue

`<router-link to="">`

`<router-link to="">`

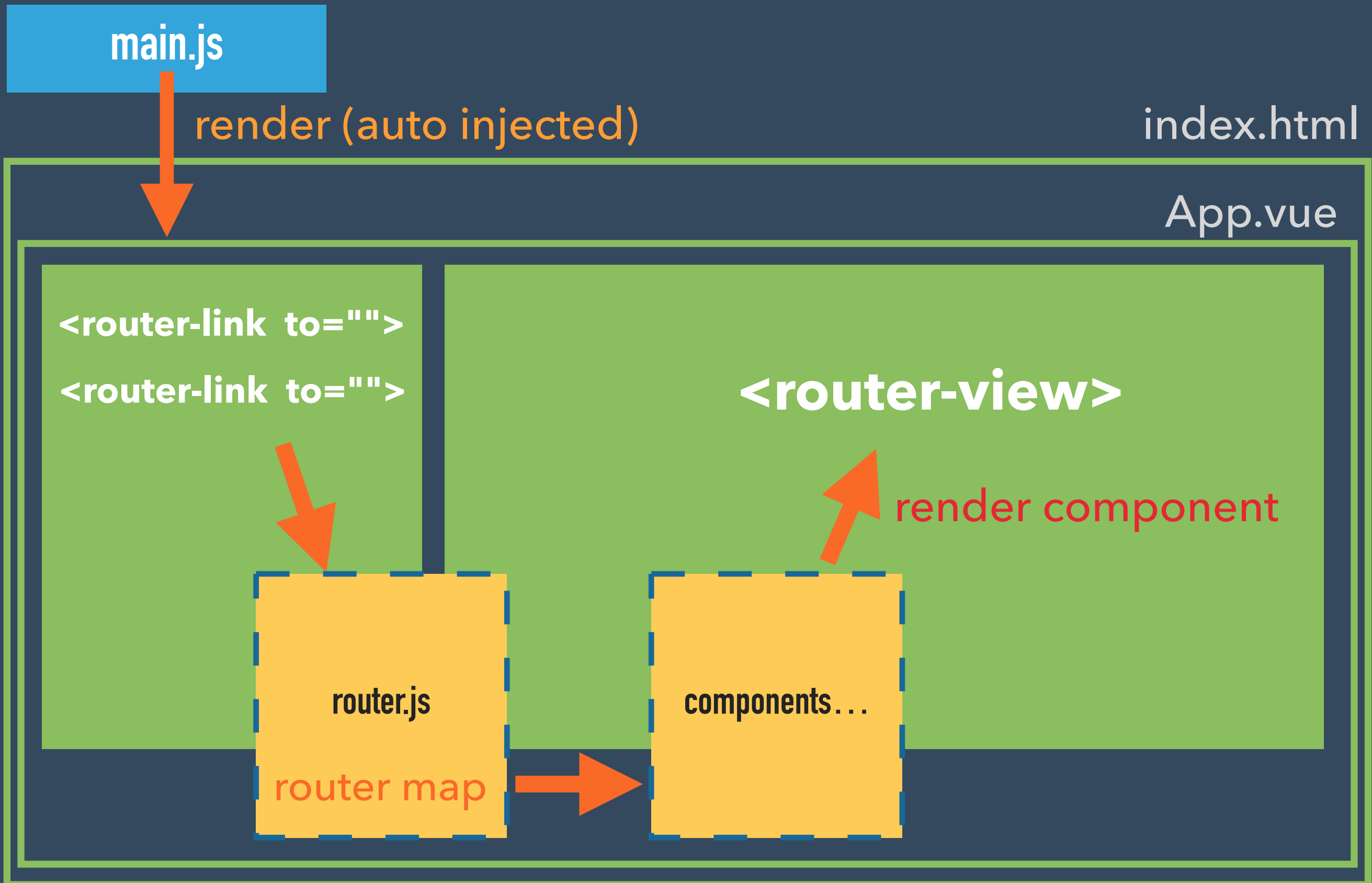
`<router-view>`

render component

router.js

router map

components...



GETTING STARTED

`<router-link to="...">`

router mapping name

``

router.js

```
import Router from 'vue-router'
```

```
import Home from './views/Home.vue' // import components...
```

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

```
export default new Router({  
  routes: [{  
    path: '/',  
    name: 'home',  
    component: Home  
  },  
  ]  
})
```

// mapping components object...

```
{  
  path: '/about',  
  name: 'about',  
  component: About  
}
```

```
{  
  path: '/person',  
  name: 'person',  
  component: Person  
}
```

ROUTER + LAZY LOAD

```
import Vue from 'vue'
import Router from 'vue-router'
```

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

```
const routerOptions = [{
  path: '/signup',
  component: 'SignUp'
},
{
  path: '/signin',
  component: 'SignIn'
},
{
  path: '/',
  component: 'Home'
}]
```

```
const routes = routerOptions.map(route => {
  return {
    path: route.path,
    component: () => import(`@/components/${route.component}.vue`)
  }
})
```

LAZY LOAD :

- ▶ ถ้าต้องการใช้งาน COMPONENT ไหน ค่อยเรียกโหลด COMPONENT ย่อยนั้น มาในภายหลัง
- ▶ เพิ่มศักยภาพการทำงานของเว็บไซต์
- ▶ ลดการใช้งานหน่วยความจำเครื่อง CLIENT
- ▶ การโหลดข้อมูลจากฝั่ง SERVER แบบใช้เท่าที่จำเป็นต้องใช้งานเท่านั้น
- ▶ เพื่อให้เว็บไซต์สามารถเข้าสู่หน้าเว็บในโหมดการใช้งานปกติได้เร็วขึ้น

```
export default new Router({
  mode: 'history',
  routes
})
```

DYNAMIC ROUTE



id : 001



id : 002



id : 003



id : 003



Product Detail Component

DYNAMIC ROUTE


```
const router = new VueRouter({
  routes: [
    // dynamic segments start with a colon
    {
      path: '/product/:id',
      component: Product
    }
  ]
})
```

```
<router-link :to="'/product/' + product.id">
  {{ product.name }}
</router-link>
```

```
@click="goToDetail(product.id)"
```

Routing by method

```
methods: {
  goToDetail(proId) {
    // this.$router.push({name: 'product'});
    this.$router.push({ name: "product", params: { id: proId } });
  },
}
```



TIME TO PRACTICE

- ▶ <https://medium.freecodecamp.org/how-to-use-routing-in-vue-js-to-create-a-better-user-experience-98d225bbcdd9>

