



Web Development Fundamentals

Vue 动态页面显示

Dynamic page displays with Vue

Jun 2021

Microsoft Reactor | Ryan Chung

```
led by player to
            .load_image("kg.png")
(self):
ialize Dog object and create Text o
g, self).__init__(image = Dog.image,
x = games.mouse.x,
bottom = games.screen.height)
re = games.Text(value = 0, size = 24,
top = 5, right = game
reen.add(self.score)
1 = games.Text(value = 0, size = 24,
top = 5, left = game
reen.add(self.life)
```



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Reactor



developer.microsoft.com/reactor/
@MSFTReactor on Twitter

800 XP



通过 Vue.js 动态显示页面

3 分钟 剩余 · 模块 · 已完成 5 个单元, 共 7 个

★★★★★ 4.7 (11) 对其进行评级

中级

学生

开发人员

应用服务静态 Web 应用

Visual Studio Code

任何 Web 框架的目标之一都是根据数据值更新显示内容。本模块将探讨如何根据这些值动态显示页面, 以及如何显示信息列表。

学习目标

本模块涉及以下内容:

- 了解列表显示方式。
- 了解条件呈现。

继续 >

⊕ 保存

先决条件

- 了解 HTML 和 CSS
- JavaScript 知识
- 熟悉 Vue.js 和指令
- Git ↗
- Visual Studio Code ↗
- Live Server ↗ 扩展

4

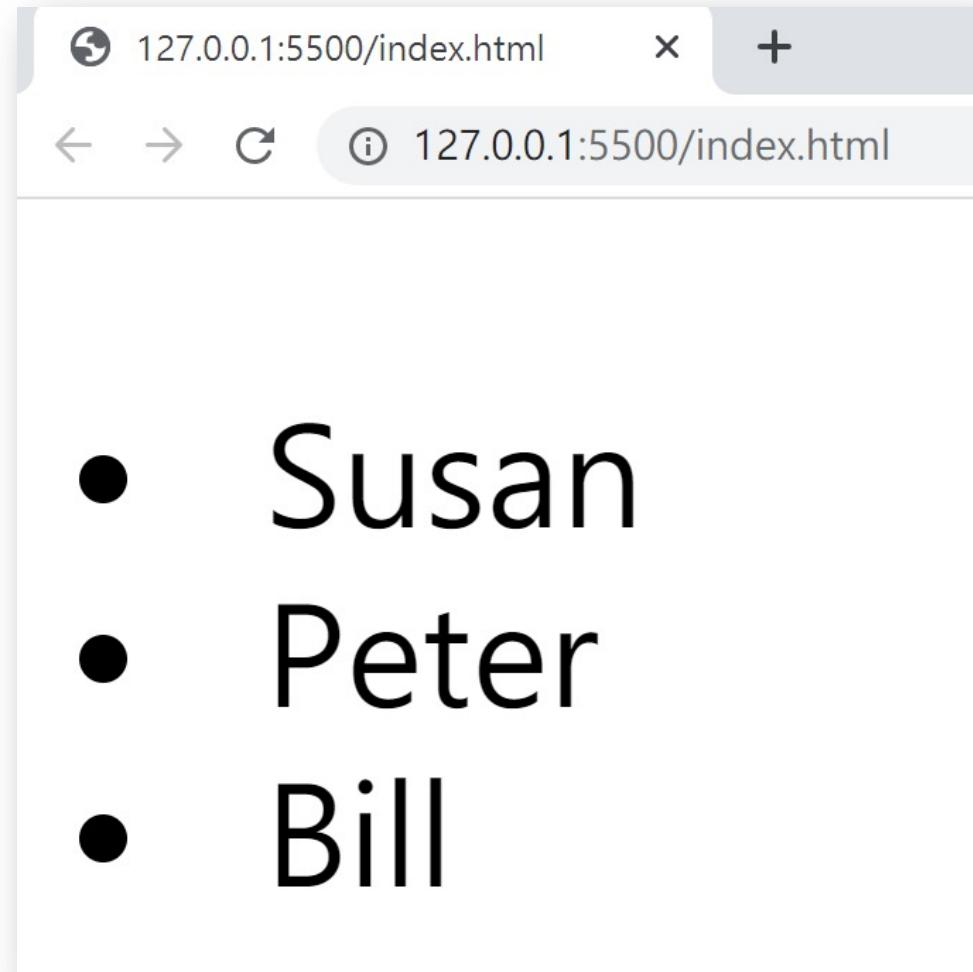
学习目标

- 显示Array中的所有资料
- 透过变量数值显示或隐藏HTML组件
- 在Vue中使用if-else

Vue世界中的循环巡访

- v-for

练习：列出所有姓名



建立项目

- VS Code -> 档案-> 打开文件夹...
- 添加文件夹 dynamic-page-vue
- 添加文件
 - index.html
 - main.js
 - style.css

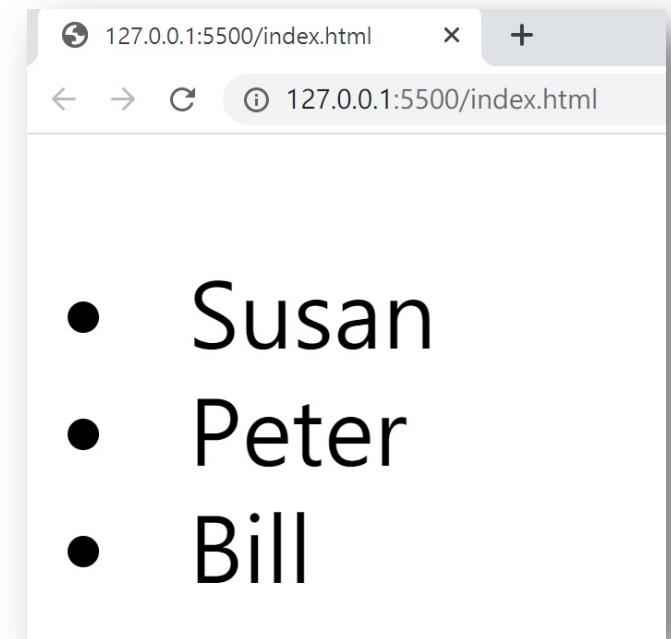
main.js

```
let pageData = {  
    names : ['Susan', 'Peter', 'Bill']  
};  
  
Vue.createApp({  
    data(){  
        return pageData;  
    }  
}).mount("#app");
```

index.html

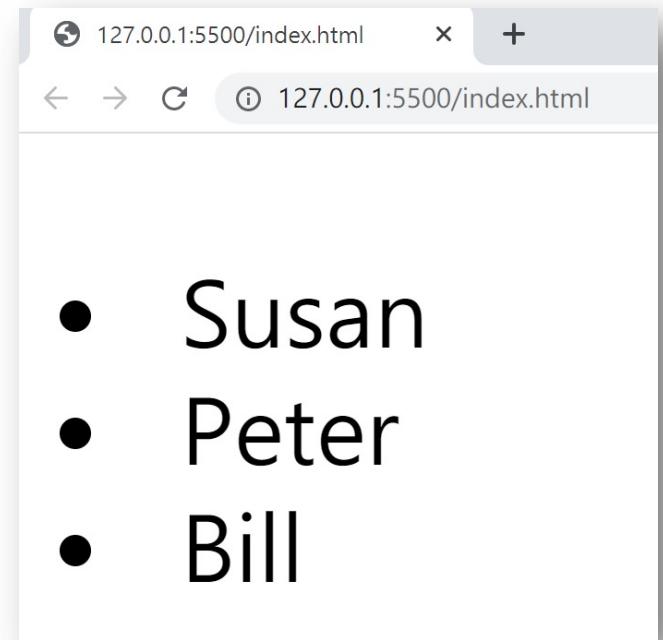
<https://github.com/ryan403/reactor-sh-2021-vue>

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li>{{names[0]}}</li>
        <li>{{names[1]}}</li>
        <li>{{names[2]}}</li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```



index.html

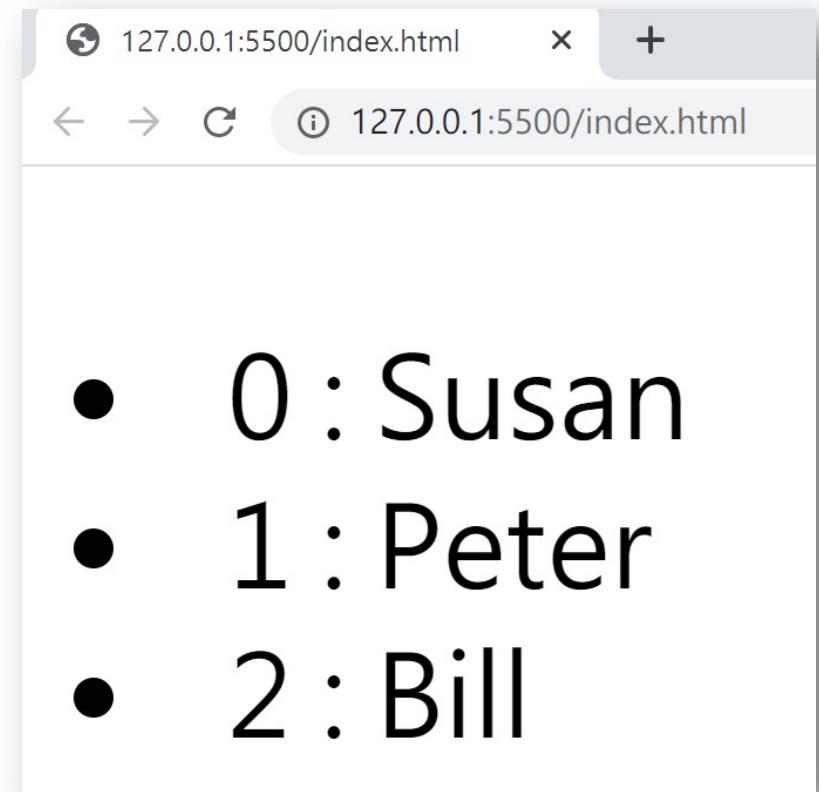
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li v-for="name in names">{{name}}</li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```



index.html

• 输出index的写法

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li v-for="(name,index) in names">{{index}} : {{name}}</li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```



练习：银河之旅 PartII

- 增加搭乘票种与价格
- 项目下载

git clone <https://github.com/MicrosoftDocs/mslearn-vue-dynamic-render/>

观察 index.js

```
productClasses: [
  {
    name: 'Coach',
    price: 125000,
    seatsAvailable: 20,
    earlyBird: true
  },
  {
    name: 'Business',
    price: 275000,
    seatsAvailable: 6,
    earlyBird: true
  },
  {
    name: 'First',
    price: 430000,
    seatsAvailable: 2,
    earlyBird: false
  }
]
```

index.html

- 显示舱等与价格

```
<!-- TODO: Add code to display classes -->
<div v-for="(productClass, index) in productClasses" :key="index" class="row">
  <div class="column">{{productClass.name}}</div>
  <div class="column">US$ {{productClass.price.toLocaleString('en-US')}}</div>
</div>
```

The screenshot shows a dark-themed application window. At the top, there's a dark header bar. Below it, the main content area has a light gray background. The title "Relecloud Galaxy Tours" is displayed in bold black font. Below the title, a section titled "Book a Cruise to the Moon" is shown in bold black font. A descriptive text follows: "Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station." A horizontal line separates this from a table. The table lists three flight classes with their corresponding prices:

Flight Class	Price
Coach	US\$125,000
Business	US\$275,000
First	US\$430,000

At the bottom of the window, there's a decorative footer element featuring a yellow and black gradient.

是否显示

- v-show
 - 依据条件判断决定是否显示
- 练习
 - 延续一開始的案例

main.js

```
let pageData = {  
  members : [  
    {  
      name: 'Susan',  
      gender: 'Female'  
    },  
    {  
      name: 'Peter',  
      gender: 'Male'  
    },  
    {  
      name: 'Bill',  
      gender: 'Unknown'  
    }]  
};  
  
const app = Vue.createApp({  
  data(){  
    return pageData;  
  }  
});  
  
app.mount("#app");
```

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li v-for="(member,index) in members">
          {{index}} : {{member.name}}
          <span v-show="member.gender=='Female'">--這位是女孩</span>
        </li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

- 0 : Susan <--這位是女孩
- 1 : Peter
- 2 : Bill

条件判断

- v-if
- v-else-if
- v-else
- 依据条件判断决定显示哪一个

index.html

<https://github.com/ryan403/reactor-sh-2021-vue>

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li v-for="(member,index) in members">
          {{index}} : {{member.name}}
          <span v-if="member.gender=='Female'"><--這位是女孩</span>
          <span v-else-if="member.gender=='Male'"><--這位是男孩</span>
          <span v-else><--性別未註冊</span>
        </li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

- 0 : Susan <--這位是女孩
- 1 : Peter <--這位是男孩
- 2 : Bill <--性別未登記

练习：银河之旅

- 显示早鸟订购/一般订购
- 显示 即将售完/不显示

The screenshot shows a travel booking interface for a cruise to the moon. At the top, there's a dark header bar. Below it, the title "Relecloud Galaxy Tours" is displayed in bold black font. Underneath the title, the heading "Book a Cruise to the Moon" is shown in bold black font. A descriptive text follows: "Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station." A horizontal line separates this from the booking table below. The booking table lists three seating classes: Coach, Business, and First. To the left of each class, the price is listed: US\$125,000 for Coach, US\$275,000 for Business, and US\$430,000 for First. To the right of each price, there are two buttons: "Book early bird!" and "Book now!". For the Coach and Business classes, the "Book early bird!" button is active. For the First class, the "Book now!" button is active. To the far right of the Business and First rows, the status "Almost sold out" is indicated. The bottom of the page features a yellow decorative bar.

Class	Price	Action	Status
Coach	US\$125,000	Book early bird!	
Business	US\$275,000	Book early bird!	Almost sold out
First	US\$430,000	Book now!	Almost sold out

index.html

<https://github.com/ryan403/reactor-sh-2021-vue>

```
<body>
  <div class="nav-bar"></div>
  <h1>Relecloud Galaxy Tours</h1>

  <div id="app">
    <h2>{{ productName }}</h2>
    <div>{{ productDescription }}</div>
    <hr />

    <!-- TODO: Add code to display classes -->
    <div v-for="(productClass, index) in productClasses" :key="index" class="row">
      <div class="column">{{productClass.name}}</div>
      <div class="column">US${{productClass.price.toLocaleString('en-US')}}</div>
      <button v-if="productClass.earlyBird" class="button">Book early bird!</button>
      <button v-else class="button">Book now!</button>
      <div v-show="productClass.seatsAvailable < 10">Almost sold out</div>
    </div>

    
  </div>

  <script src="./index.js"></script>
  <script>
    app.mount('#app');
  </script>
</body>
```

1. 使用哪个指令来循环访问项列表?

<https://github.com/ryan403/reactor-sh-2021-vue>

知识检查

v-for

v-show

v-else

v-if

2. 使用哪个指令来确定是否应显示数据?

v-for

v-show

v-bind

3. 使用哪个指令来实现布尔逻辑?

v-for

v-bind

v-if

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Microsoft

Reactor

Summary 摘要

- v-for
 - 巡访 loop
 - 需要索引值/不需要索引值
- v-show
 - 有或是没有
 - 条件符合就显示、条件不符合就不显示
- v-if, v-else-if, v-else
 - 兵分多路
 - 如果符合就显示、又如果符合就显示、其他情况显示这一个



Reactor



developer.microsoft.com/reactor/
@MSFTRreactor on Twitter

议程结束
感谢聆听



请记得填写课程回馈问卷 (Event ID : **XXXXX**)
<https://aka.ms/Reactor/Survey>

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