



# 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/](https://developer.microsoft.com/reactor/)  
@MSFTReactor on Twitter



# 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

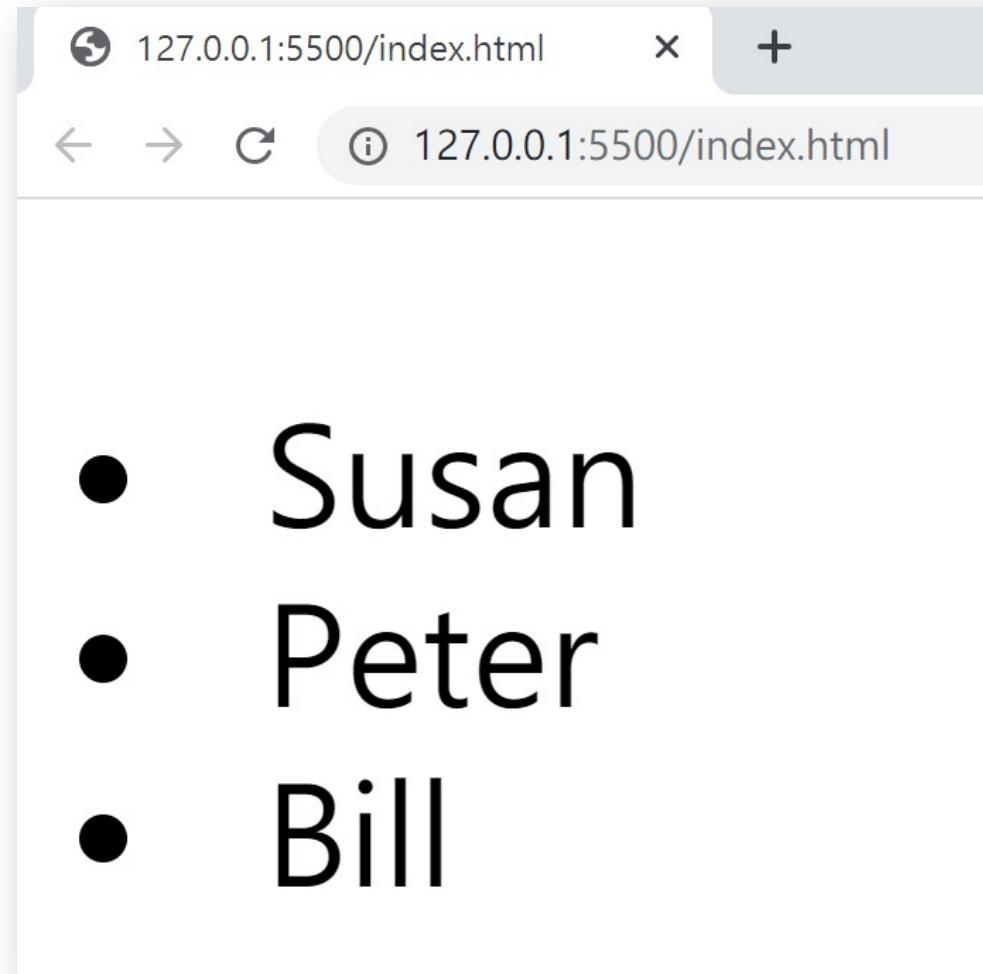
# 学习目标

- 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

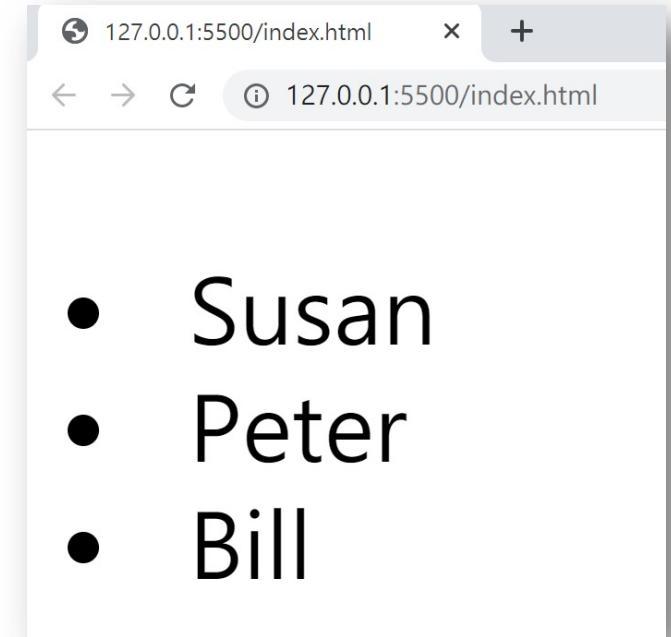
# main.js

```
let pageData = {  
    names : ['Susan', 'Peter', 'Bill']  
};
```

```
Vue.createApp({  
    data(){  
        return pageData;  
    }  
}).mount("#app");
```

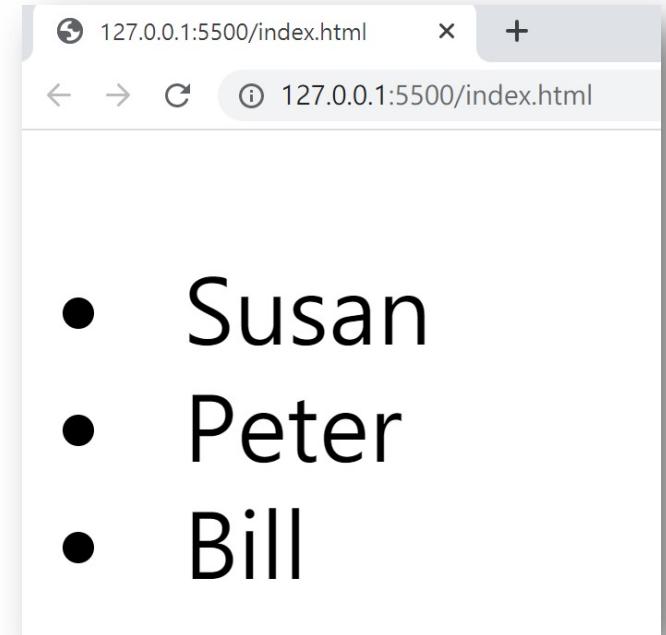
# index.html

```
<!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

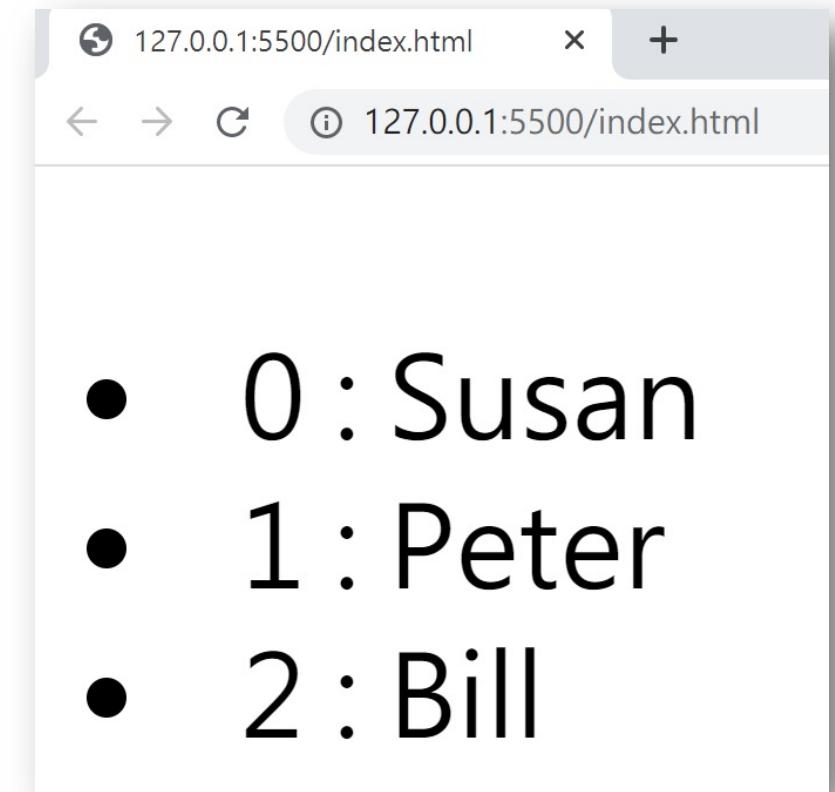
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1></h1>
    <div id="app">
      <ul>
        <li v-for="name in names">{{name}}</li>
      </ul>
    </div>
    <script src="https://unpkg.com/vue@next"></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 web page with a dark header bar. Below it, the title "Relecloud Galaxy Tours" is displayed in bold black font. Underneath the title, the text "Book a Cruise to the Moon" is shown in a smaller bold font. A descriptive paragraph follows: "Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station." Below this, a table lists three travel classes with their corresponding prices:

Coach	US\$125,000
Business	US\$275,000
First	US\$430,000

At the bottom of the page, there is a large yellow rectangular button.

# 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

```
<!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 page for a cruise to the moon. At the top, there's a dark blue 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 options. There are three rows of information, each representing a class level: Coach, Business, and First. Each row contains the class name, the price in US dollars, and a booking button. The "Coach" row has a "Book early bird!" button. The "Business" row also has a "Book early bird!" button and an additional text "Almost sold out" next to it. The "First" row has a "Book now!" button and an additional text "Almost sold out" next to it. The bottom of the page features a large yellow rectangular graphic.

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

```
<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>
```

# 知识检查

1. 使用哪个指令来循环访问项列表?

- 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

# 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



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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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