



Web Development Fundamentals

Vue 入门

Get started 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
green.add(self.score)
    t = games.Text(value = 0, size = 24,
top = 5, left = game
green.add(t)
```



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Reactor



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

800 XP



Vue 入门

3 分钟 剩余 · 模块 · 已完成 5 个单元, 共 7 个

★★★★★ 4.9 (18)

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

Vue.js 是一种渐进式 Web 框架，使开发人员能够通过添加脚本标记来快速启动和运行。并且 Vue.js 可以和你一起成长。你可以使用它来创建可缩放的大型应用程序。在本模块中，你将了解 Vue.js 的核心概念以及如何入门。

学习目标

在此模块中，你将执行以下操作：

- 创建应用。
- 处理数据。

继续 >

⊕ 保存

先决条件

你需要在以下方面具备中等程度的相关知识：

- HTML 和 CSS
- Git
- npm
- JavaScript

学习目标

- 创建 Vue 应用程序
- 带入资料

Vue.js

- 由Evan You建立，2014年2月首度释出
- 目标为建立渐进式、轻量级的JavaScript
- 开发者可以通过一组定制的HTML属性来与数据连接
- Vue.js将HTML属性直译为指令，来与页面上所需的数据或样式设定结合

阶段性目标

- 了解Vue.js的概念
- 建立功能型的Web-based应用程序
- 在页面上显示数据
- 将数据与HTML属性绑定
- 样式与类别绑定

练习：将Vue.js加入页面

- VS Code 文件->打开文件夹
- 建立一个HelloVue文件夹
- 添加文件
 - index.html
 - style.css
 - main.js

index.html

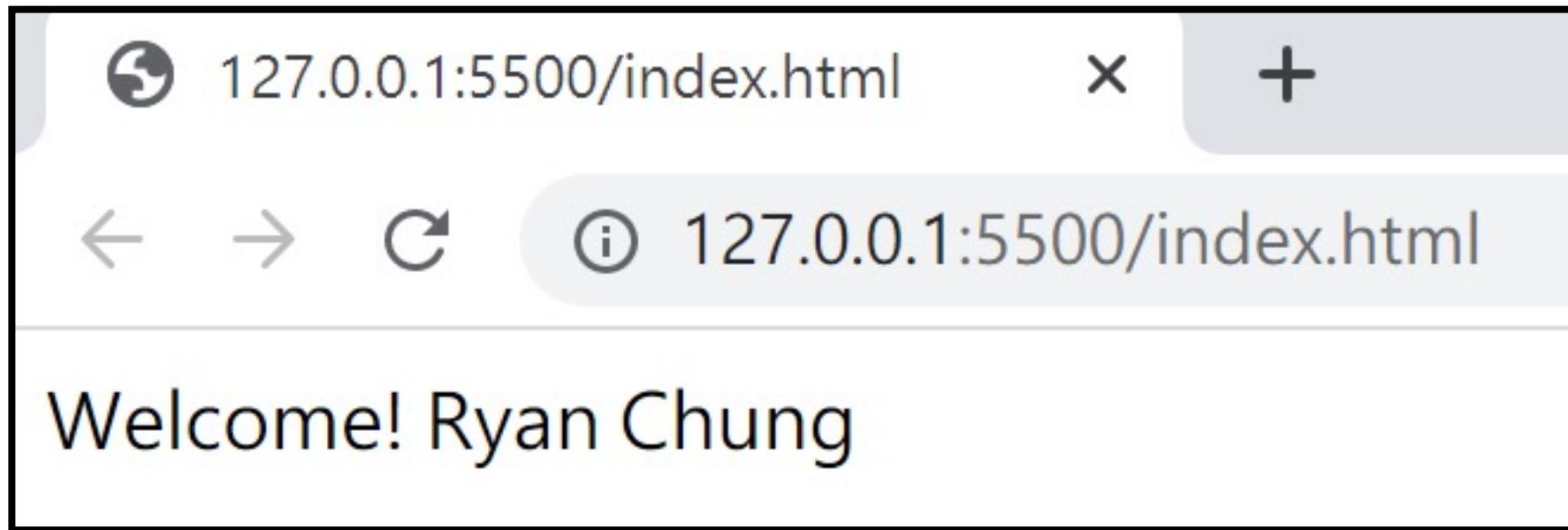
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <div id="app">
      Welcome! {{firstName}} {{lastName}}
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

main.js

```
let myData = {  
    firstName: "Ryan",  
    lastName: "Chung"  
};  
  
const App = Vue.createApp({  
    data(){  
        return myData;  
    }  
});  
  
App.mount("#app");
```

观察执行结果

- index.html 右键-> Open With Live Server



练习：打造银河之旅宣传页面

- VS Code 文件-> 打开文件夹
- 建立一个HelloVue文件夹
- 添加文件
 - index.html
 - style.css
 - main.js

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">

    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

style.css

```
h1{  
    text-align: center;  
}
```

main.js

```
let pageData = {  
    productName: 'Book a Cruise to the Moon',  
    productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',  
};  
  
const app = Vue.createApp({  
    data(){  
        return pageData;  
    }  
});  
  
app.mount("#app");
```

index.html

- 将资料带入页面中

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2>{{productName}}</h2>
      <p>{{productDescription}}</p>
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

观察网页呈现

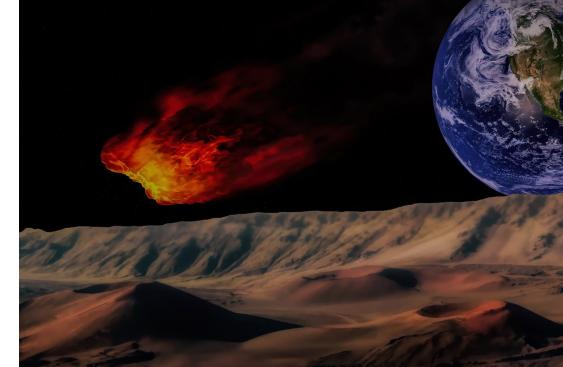
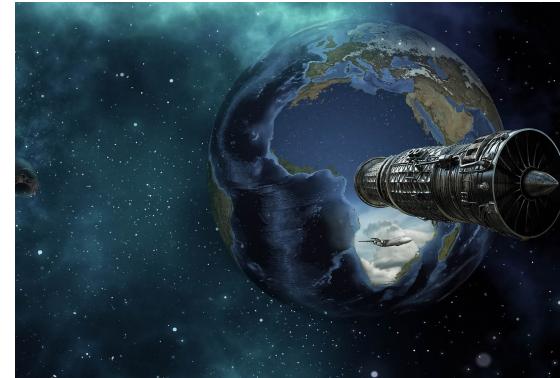
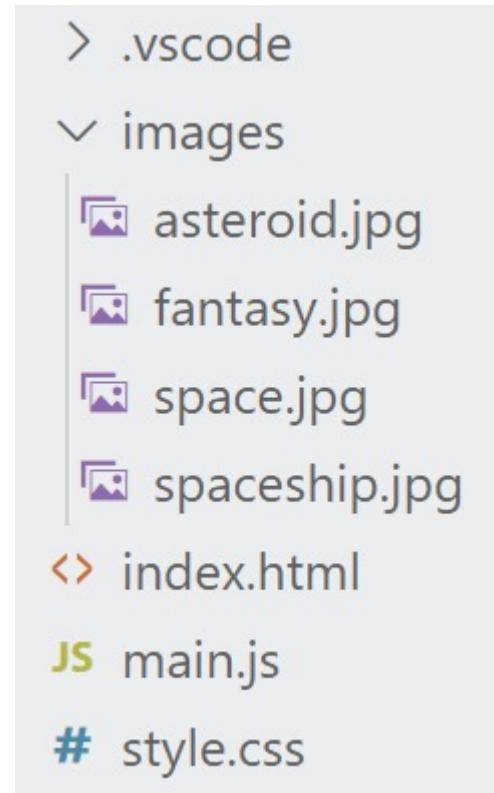
Galaxy Tour

Book a Cruise to the Moon

Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.

加入图片

- 在项目中建立images文件夹
- 加入4张太空相关的图片，建议尺寸1284*856



index.html

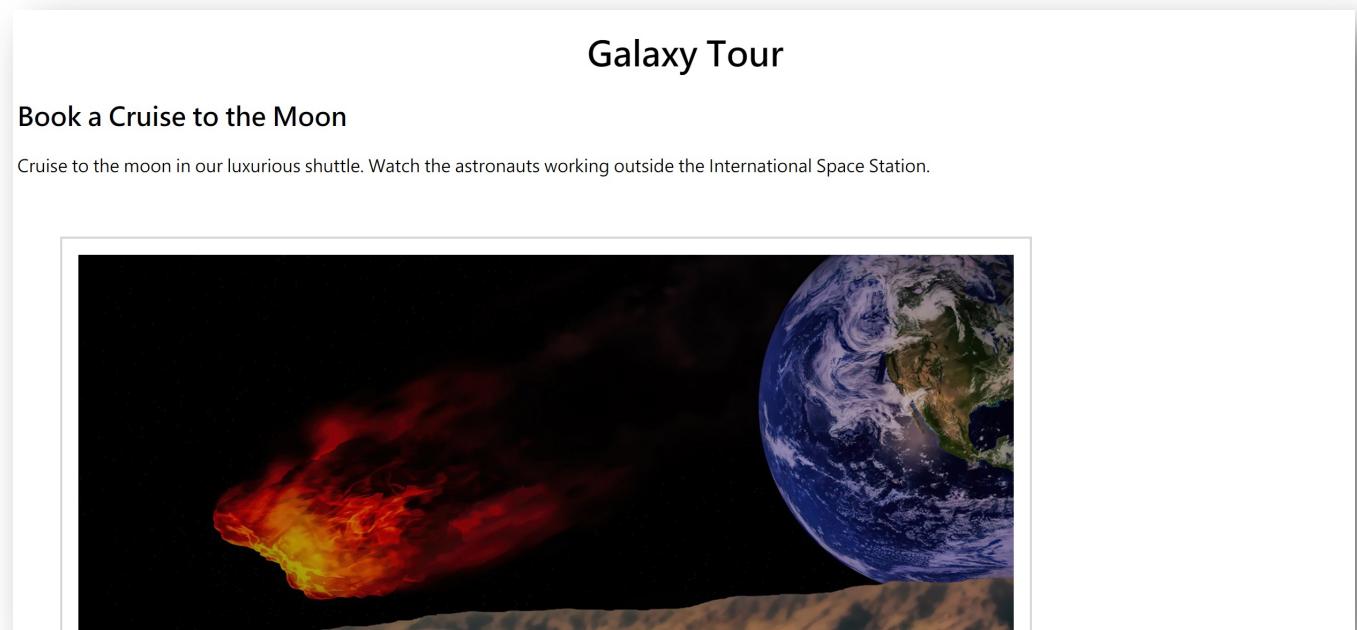
- 直接加入的写法

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2>{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

style.css

- 调整图片呈现样式

```
h1{  
    text-align: center;  
}  
  
img{  
    border: 2px solid #d8d8d8;  
    width: 70%;  
    margin: 40px;  
    padding: 15px;  
}
```



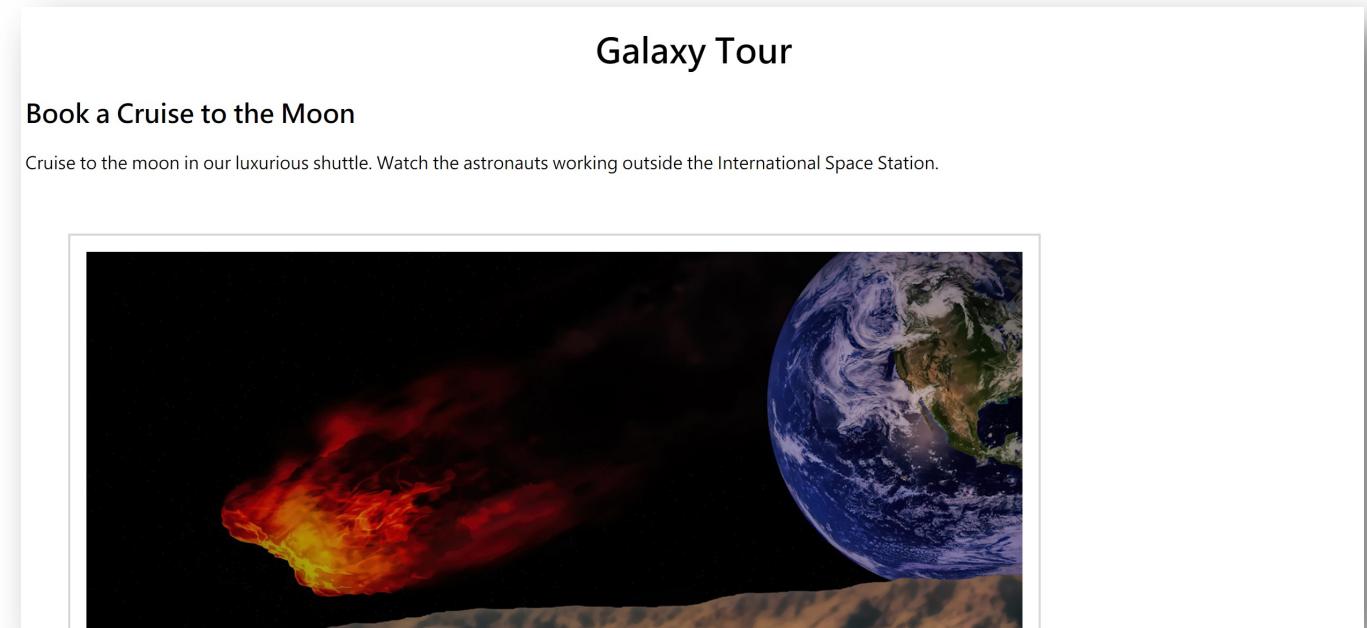
index.html

- 使用Vue来设定图片

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2>{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

main.js

```
let pageData = {  
    productName: 'Book a Cruise to the Moon',  
    productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',  
    imageSrc:"images/asteroid.jpg"  
};  
  
const app = Vue.createApp({  
    data(){  
        return pageData;  
    }  
});  
  
app.mount("#app");
```



main.js

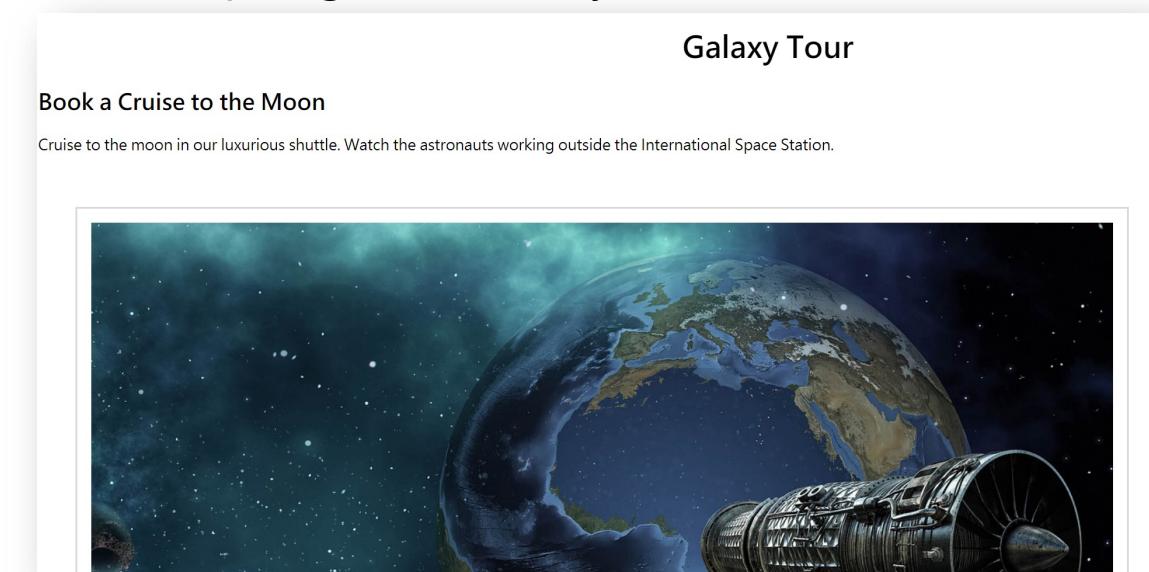
- 将更多照片加入

```
let pageData = {  
    productName: 'Book a Cruise to the Moon',  
    productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',  
    imageSrc:[  
        "images/asteroid.jpg",  
        "images/fantasy.jpg",  
        "images/space.jpg",  
        "images/spaceship.jpg"  
    ]  
};  
  
const app = Vue.createApp({  
    data(){  
        return pageData;  
    }  
});  
  
app.mount("#app");
```

index.html

- 指定某一张

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2>{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```



index.html

- 随机来一张

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2>{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```



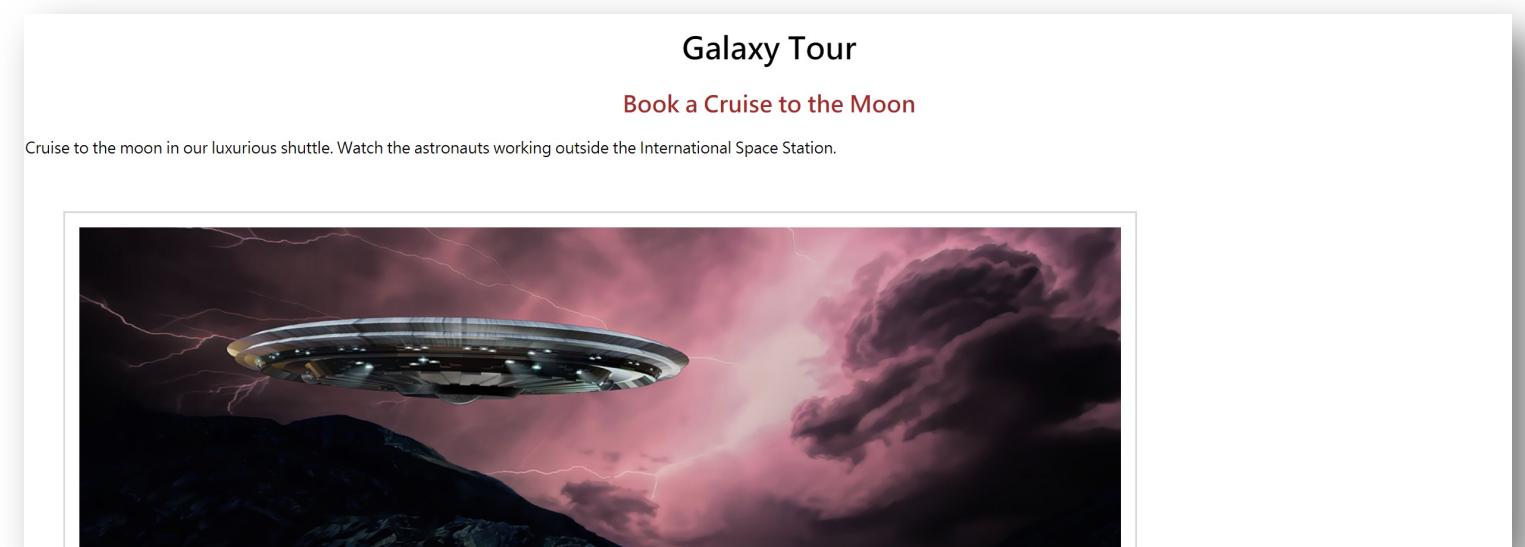
index.html

- 应用 CSS Class的一般写法

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2 class="centered colorFont">{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

style.css

```
h1{  
    text-align: center;  
}  
  
img{  
    border: 2px solid #d8d8d8;  
    width: 70%;  
    margin: 40px;  
    padding: 15px;  
}  
  
.centered{  
    text-align: center;  
}  
  
.colorFont{  
    color: brown;  
}
```



index.html

- 使用Vue动态决定是否要套用该Class样式

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2 :class="h2ClassController">{{productName}}</h2>
      <p>{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

- true 套用、false不套用

```
let pageData = {  
    productName: 'Book a Cruise to the Moon',  
    productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',  
    imageSrc:[  
        "images/asteroid.jpg",  
        "images/fantasy.jpg",  
        "images/space.jpg",  
        "images/spaceship.jpg"  
    ],  
    h2ClassController:{  
        centered:true,  
        colorFont:false  
    }  
};
```



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

index.html

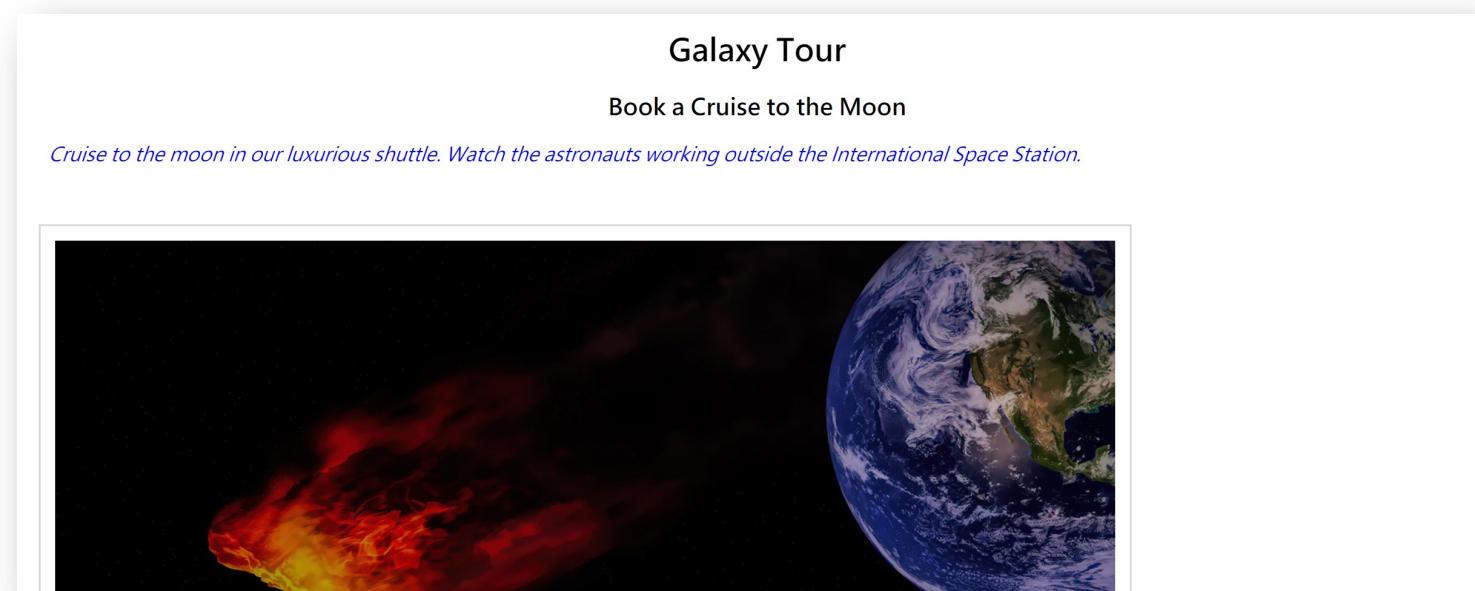
- 也可以直接设定CSS样式

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2 :class="h2ClassController">{{productName}}</h2>
      <p :style="pStyleController">{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

main.js

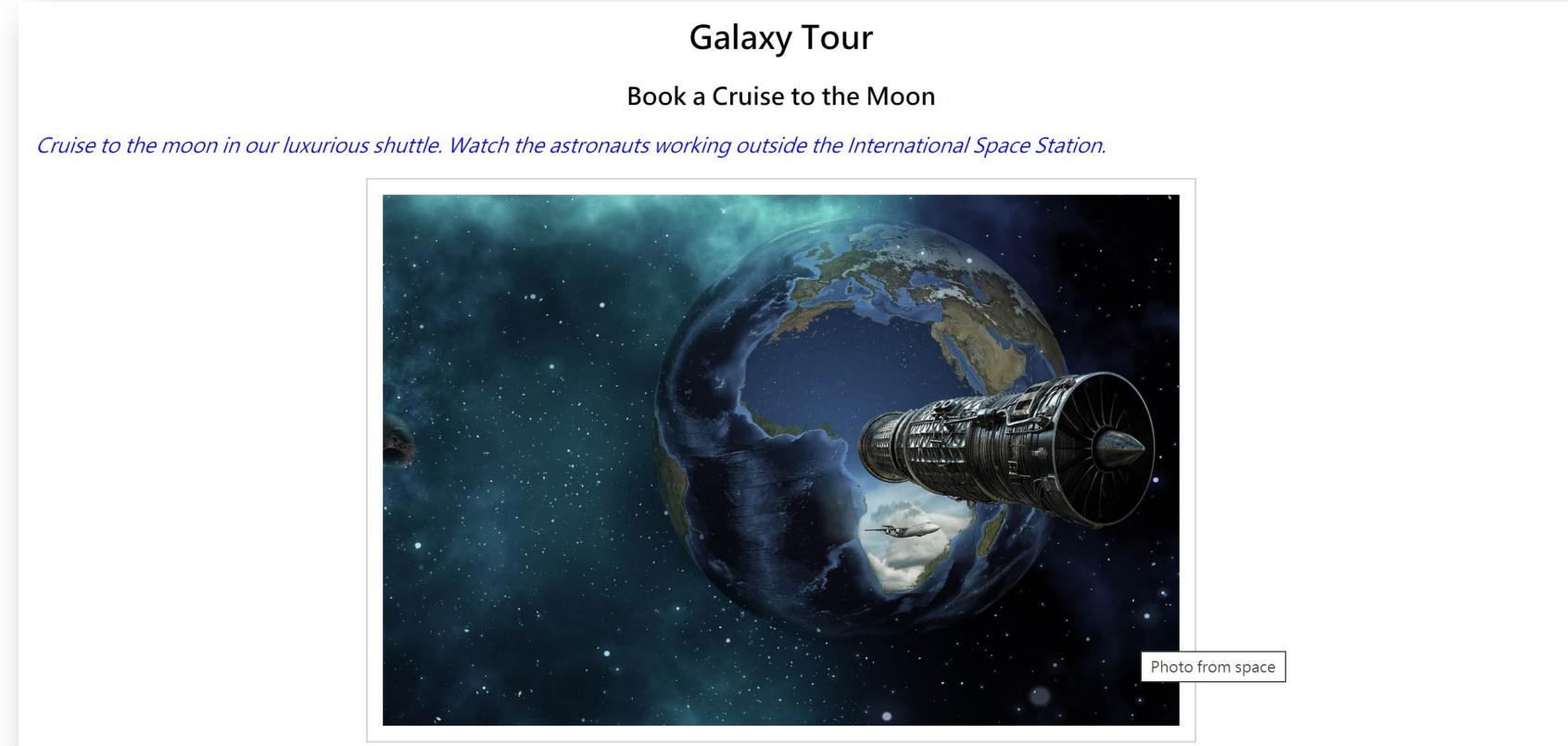
<https://github.com/ryan403/reactor-sh-2021-vue>

```
let pageData = {
  productName: 'Book a Cruise to the Moon',
  productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',
  imageSrc:[
    "images/asteroid.jpg",
    "images/fantasy.jpg",
    "images/space.jpg",
    "images/spaceship.jpg"
  ],
  h2ClassController:{
    centered:true,
    colorFont:false
  },
  pStyleController:{
    'margin-left':'50px',
    color:'blue',
    'font-size':'20px',
    'font-style':'italic'
  }
};
```



练习：图片样式设定

- 使用Vue来设定图片的
 - CSS样式
 - alt、title属性



index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Galaxy Tours</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>Galaxy Tour</h1>
    <div id="app">
      <h2 :class="h2ClassController">{{productName}}</h2>
      <p :style="pStyleController">{{productDescription}}</p>
      
    </div>
    <script src="https://unpkg.com/vue@next"></script>
    <script src="main.js"></script>
  </body>
</html>
```

main.js

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

```
let pageData = {
    productName: 'Book a Cruise to the Moon',
    productDescription: 'Cruise to the moon in our luxurious shuttle. Watch the astronauts working outside the International Space Station.',
    imageSrc:[
        "images/asteroid.jpg",
        "images/fantasy.jpg",
        "images/space.jpg",
        "images/spaceship.jpg"
    ],
    h2ClassController:{
        centered:true,
        colorFont:false
    },
    pStyleController:{
        'margin-left':'50px',
        color:'blue',
        'font-size':'20px',
        'font-style':'italic'
    },
    imageStyleController:{
        margin:'auto',
        display:'block',
        width:'50%'
    },
    imageAlt:"Photo from space"
};
```

优化练习

- 让alt属性显示该对应图片之档案路径



知识检查

1. 以下哪种说法是正确的?

- Vue 应用程序必须对托管数据库应用程序的后端服务器进行外部调用。
- 若要创建 Vue 应用程序，必须重写现有框架。
- 可以通过在引用 Vue 核心库的 HTML 文档中输入简单的脚本标记来实现 Vue 应用程序。

2. 以下哪一个选项是将属性动态绑定到 HTML 接口中的表达式的正确方法?

-
-
-

3. 以下哪一条语句正确说明了如何通过 Vue.js 来管理样式和类绑定?

- 通过 Vue 可对 `v-on` 指令使用速记表示法。但是，在应用类和样式绑定时，不能使用 `v-bind` 的简写形式。
- 可以在一个 HTML 元素上同时应用多个样式和类绑定。
- 若要向一个 HTML 元素添加多个样式属性，需要使用单独的内联样式来应用 `v-bind` 指令。

Summary 摘要

- 将Vue加入页面
 - 在HTML中带入
 - 在JavaScript中建立，并导入数据
- 在页面中使用Vue动态加载数据
 - 指定id、使用{{ }}
 - 设定img组件的src属性(:src)、alt属性(:alt)、title属性(:title)
 - 设定元件套用哪些类别样式(:class)，true 套用、false 不套用
 - 设定元件的CSS样式(:style)，属性名称视情况加上引号



Reactor



developer.microsoft.com/reactor/
@MSFTReactor 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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