

Web Development Fundamentals 4

网站开发系列 jQuery & 部署上线

May 2020 Microsoft Reactor | Ryan Chung

```
led by play
;.load_image("kg.png")
idlize Dog object and create Trans
self).__init__(image = Doo.image)
                 bottom = games, se
re = games.Text(value = 0, size
   Anna C Toyl (volume - 0)
reen.add(self.score)
```



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Web Project Workshop Agenda 网页开发在线研讨会议程

19:30	Welcome 开场		
19:35	Introduction to jQuery jQuery语法介绍		
20:10	Using jQuery to access API 运用jQuery存取云端资料		
20:30	10-minute break 中场休息		
20:40	Lab Practice 网站综合练习		
21:20	Q&A 问答时间		
21:30	Event end 研讨会结束		





Reactor







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



使用jQuery与API

jQuery/API 工作坊大纲

- ·jQuery与API介绍
- ·使用jQuery存取API
- ·结合HTML与jQuery
- ·综合练习: Pokédex 宝可梦图鉴



简介

- JavaScript Library
- 简化JavaScript程序代码

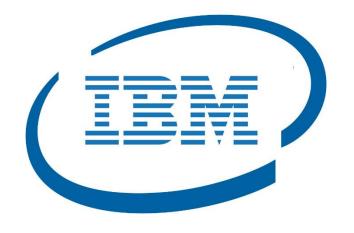


主要功能

- HTML/DOM 存取
- CSS 使用
- HTML事件方法
- 特效与动画
- AJAX
- 其他工具









如何使用

- 1. 在官网找到最新版本下载
 https://code.jquery.com/jquery-X.X.X.min.js
- 2. 在<head></head>中插入或</body>前
<script src="jquery-X.X.X.min.js"></script>

文法结构

• \$(selector).action() 选择对象(找到谁).进行动作(做什么)

•例如:

\$(this).hide() 把目前这个组件藏起来 \$("p").hide() 把所有段落藏起来 \$(".test").hide() 把所有类别为test的组件藏起来 class selector \$("#test").hide() 把所有id为test的组件藏起来

element selector id selector

常见事件侦测

```
点击
click、dblclick
$("p").click(function(){
    // action goes here!!
});
```

- 载入完成 ready
- 鼠标 mouseenter, mouseleave, mousedown, mouseup hover = mouseenter + mouseleave
- 聚焦 focus, blur

效果

- hide() 隐藏
- show() 显示
- toggle() 切換隐藏或显示
- fadeIn() 淡入
- fadeOut() 淡出
- fadeToggle() 切换交叉进出
- fadeTo() 改变透明度

- slideDown() 下拉显示
- slideUp() 上拉隐藏
- slideToggle() 切换上下滑动
- animate() 动画

Lab.按按钮看详细介绍



The Hangover Part III

When one of their own is kidnapped by an angry gangster, the Wolf Pack must track down Mr. Chow, who has escaped from prison and is on the lam.

Show Detail

按按钮可以显示详细介绍再单击可以隐藏详细介绍

index.html

```
<!DOCTYPE html>
<html>
   <head>
       <meta charset="utf-8">
        <title>HellojQuery</title>
   </head>
    <body>
        <img width="200" height="300"</pre>
        src="http://content6.flixster.com/movie/11/17/27/11172744 800.jpg">
        <h1>The Hangover Part III</h1>
        When one of their own is kidnapped by an angry gangster,
            the Wolf Pack must track down Mr. Chow, who has escaped
            from prison and is on the lam.
        <button>Show Detail
        <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
        <script async defer src="main.js"></script>
   </body>
</html>
```

main.js

```
$("p").hide(); //先隐藏段落
$("button").click(function(){ //当按钮按下后
$("p").toggle(); //切换显示段落
});
```

Lab.显示/隐藏 ->各种特效

- 1. 请试着修改显示/隐藏的范例,变成淡入淡出特效
 - fadeToggle()
- 2. 请试着修改显示/隐藏的范例,变成下拉上收特效
 - slideToggle()
- 3. 请测试带有参数的显示效果

```
$(selector).toggle(speed, callback);
$(selector).slideToggle(speed, callback);
$(selector).fadeToggle(speed, callback);
```

```
$("button").click(function(){
    $("#div1").fadeToggle();
    $("#div2").fadeToggle("slow");
    $("#div3").fadeToggle(3000);
});
```

Lab.鼠标移到谁,就显示谁的名字



The Hangover Part III

Ed Helms

index.html

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>HellojQuery</title>
        <link rel="stylesheet" href="style.css">
    </head>
    <body>
        <img alt="Bradley Cooper" src="images/Bradley_Cooper.jpg">
                                     src="images/Ed_Helms.jpg">
        <img alt="Ed Helms"</pre>
        <img alt="Zach Galifianakis" src="images/Zach_Galifianakis.jpg">
        <h1>The Hangover Part III</h1>
        <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
        <script async defer src="main.js"></script>
    </body>
</html>
```

main.js

```
$("img").hover(
    function(){$("p").text($(this).attr("alt"));},
    function(){$("p").text("");});
```

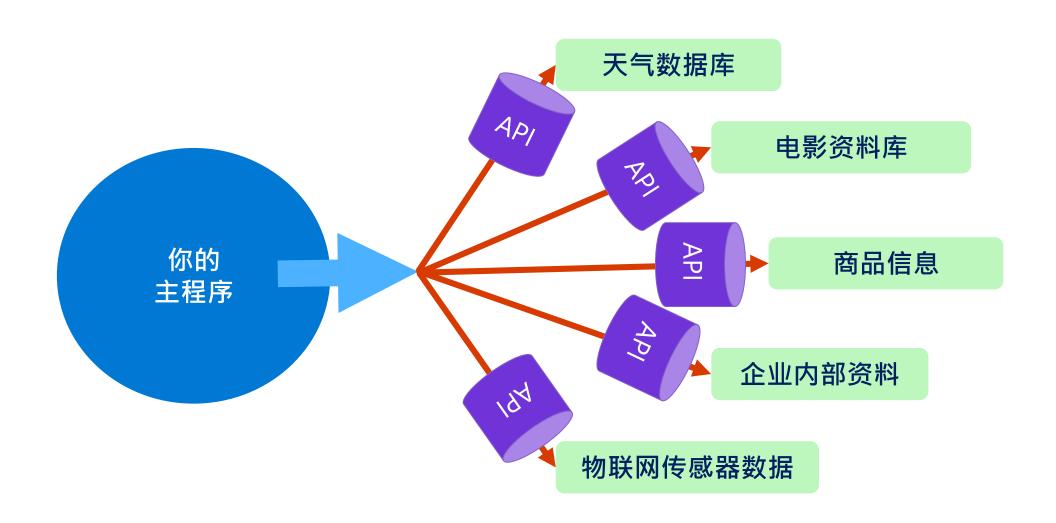
style.css

```
img{
    width: 200px;
    height: 300px;
}

p{
    font-size: 18px;
    font-style: italic;
}
```

- 当鼠标移至图片上面时
 - hover吃两个参数
 - 进入范围
 - 取得该张图片的alt属性值
 - 利用text(),改变段落中的文字
 - 离开范围
 - 清空文字

API: Application Programming Interface 应用程序编程接口

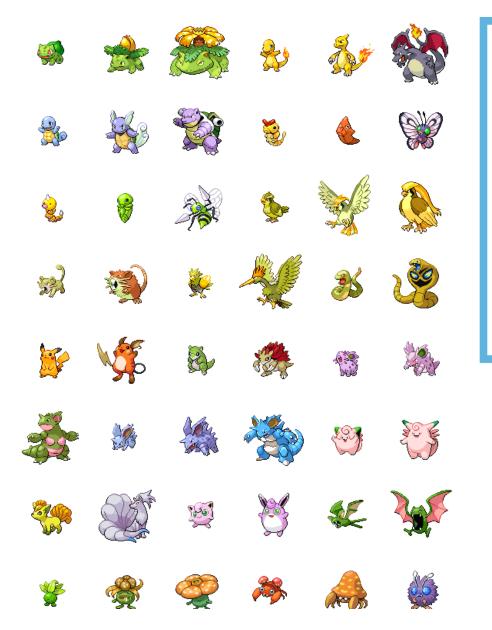


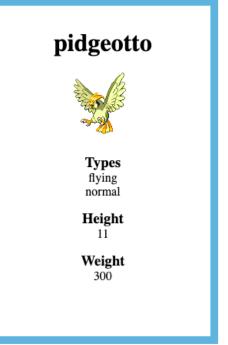




综合练习: Pokédex 宝可梦图鉴

综合练习: Pokédex 宝可梦图鉴







Pokédex 宝可梦图鉴资料

https://pokeapi.co/api/v2/pokemon/25/

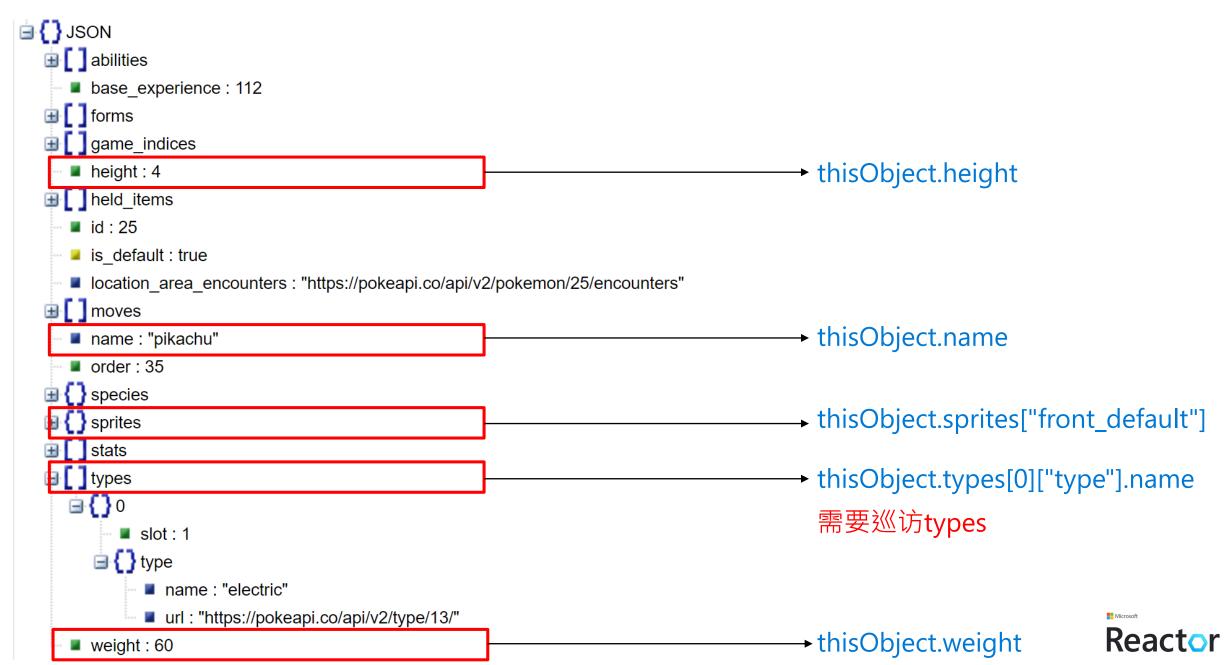
```
pokeapi.co/api/v2/pokemon/25/
- abilities: [
        - ability: {
              name: "lightning-rod",
              url: "https://pokeapi.co/api/v2/ability/31/"
          is_hidden: true,
          slot: 3
        - ability: {
              name: "static",
              url: "https://pokeapi.co/api/v2/ability/9/"
          is_hidden: false,
          slot: 1
  base_experience: 112,
- forms:
          name: "pikachu",
```

最后这个数字是id 也就是在数据库中 宝可梦精灵的编号



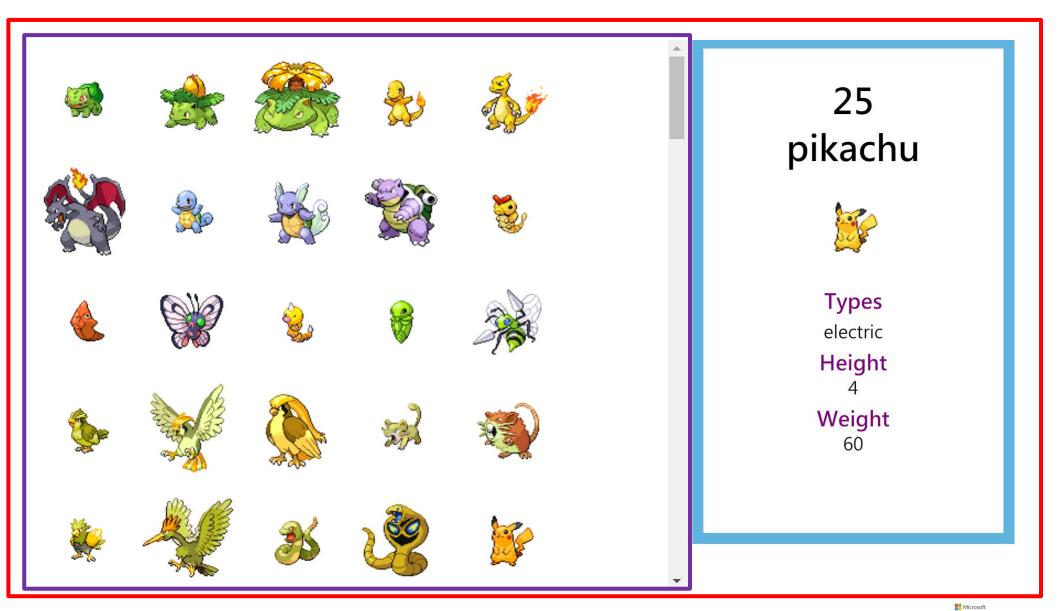
用 JSON Viewer 观察一下数据结构

http://jsonviewer.stack.hu/



项目结构

index.html main.js style.css pokemon.html pokemon.js





```
index.html
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8">
   <title>Test Pokedex</title>
   <link rel="stylesheet" href="style.css">
 </head>
 <body>
     <div class="container">
                                用iframe来显示整个宝可梦图鉴选项
         <div class="pokemon">
           <iframe src="pokemon.html" width="600px" height="500px"></iframe>
         </div>
         <div class="pokedex">
             <div class="name"></div>
             <div class="picture"></div>
                                         用户选定图片后,右方出现单一精灵介绍
             <div class="types"></div>
             <div class="height"></div>
             <div class="weight"></div>
         </div>
     </div>
     <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
     <script async defer src="main.js"></script>
 </body>
</html>
```



pokemon.html



pokemon.js

```
let id; 把精灵的小图用循环方式添加到画面上

for (let i = 1; i <= 151; i++){
    $("body").append('<img id="' + i +
    '" src="https://raw.githubusercontent.com/PokeAPI/sprites/master/sprites/pokemon/shiny/' +
    i + '.png">');
}

$('img').click(function(){
    id = $(this).attr('id');
    parent.$(parent.document).trigger("imageClick",id);
});
```



产生右方卡片内容(id,名子,图片,类别,高度,重量)

main.js

```
$(document).on("imageClick",function(e,id){
   $.get("https://pokeapi.co/api/v2/pokemon/" + id + "/", function(res) {
       //显示名子
       let nameString = "<h1>" + id+"<br>"+ res.name + "</h1>";
       $('.name').html(nameString);
       //显示图片
       let imgString = '<img src="';</pre>
       imgString += res.sprites["front default"] +'">';
       $('.picture').html(imgString);
       //巡访并显示类别
       var types = "<h3>Types</h3>";
       for(let i = 0; i < res.types.length; i++) {</pre>
           types += "" + res.types[i]["type"].name + "";
       types += "";
       $(".types").html(types);
       //显示高度、重量
       $('.height').html("<h3>Height</h3>"+res.height);
       $('.weight').html("<h3>Weight</h3>"+res.weight);
    }, 'json');
});
```

style.css

```
*{
                                          .pokedex div{
    margin: Opx;
                                              margin-top: 5px;
    padding: 0px;
                                          .picture img{
.pokemon{
                                              display: block;
    display: inline-block;
                                              margin: Opx auto;
    vertical-align: top;
.pokedex{
                                          .types li{
    width: 20%;
                                              list-style: none;
    height: 400px;
                                              padding-top: 5px;
    border: 10px solid #5fb3df;
    display: inline-block;
    vertical-align: top;
                                          h3{
    padding: 20px;
                                              color:purple;
    text-align: center;
```



将网站部署至Azure

如何免费使用微软Azure服务



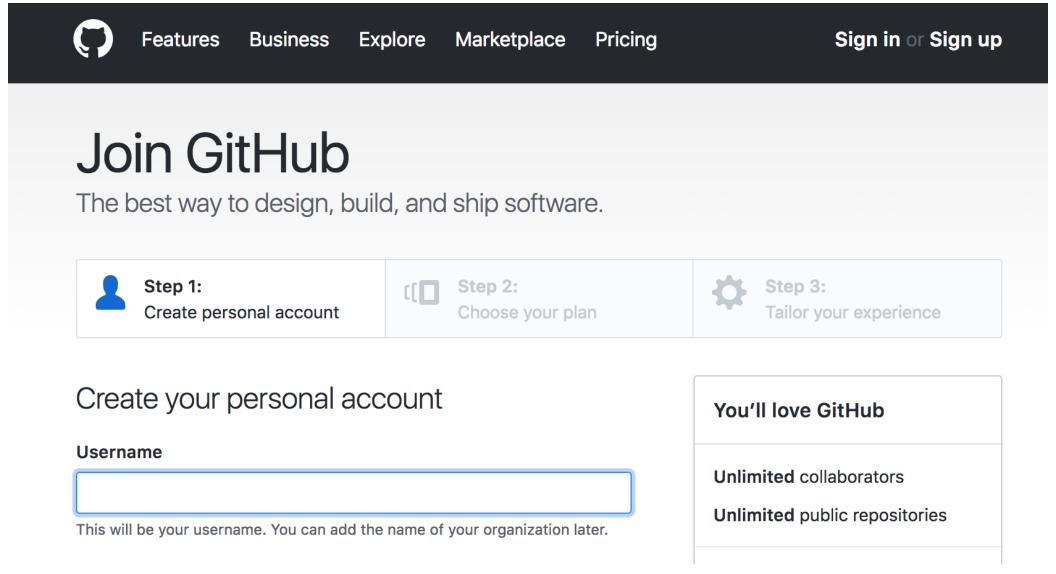


https://azure.microsoft.com/zh-cn/free/

https://azure.microsoft.com/zh-cn/free/students/



注册一个GitHub账号



登入后,建立一个新的项目

· 点选照片旁边的+ · New repository

Create a new repository A repository contains all the files for your project, including the revision history. Repository name Owner MergePractice Great repository names are short and memorable. Need inspiration? How about cuddly-potato. Description (optional) Anyone can see this repository. You choose who can commit. You choose who can see and commit to this repository. ☐ Initialize this repository with a README This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository. Add .gitignore: None ▼ Add a license: None ▼ **Create repository**

本机设定

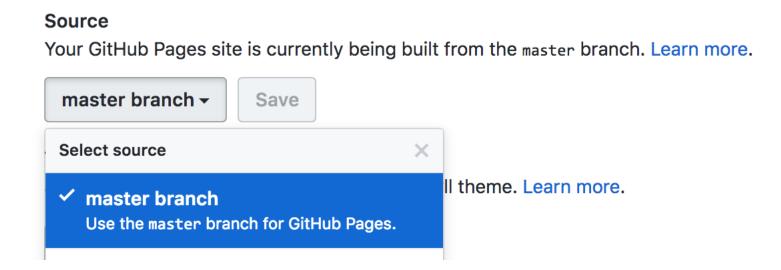
- ·打开终端机应用程序
 - · Windows: cmd
 - · Mac : Terminal
- · 找到项目文件夹 cd YourProjectDic
- · Git 初始化(需先安装好git) git init
- ·加入所有档案 git add.

本机设定

- ·设定上传描述标记 git commit –m "First commit"
- · 对应远程位置 git remote add origin https://github.com/YourUserName/YourProgectName.git
- ·上传档案 git push –u origin master

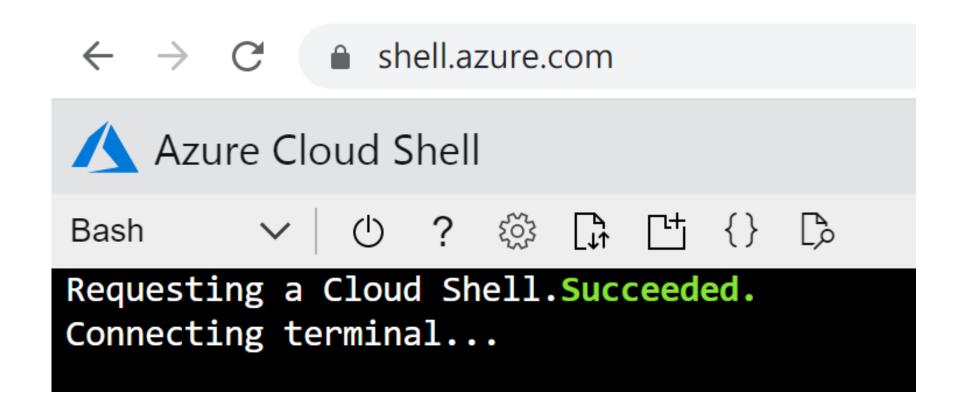
选择一:直接设定GitHub Pages

- ·在Github网站中,进入自己的项目
- · 点击 Settings
- ·下拉至GitHub Pages
- · 将Source设定为 master branch



选择二:从GitHub部署至Azure

·打开浏览器,进入 https://shell.azure.com



选择二:从GitHub部署至Azure

复制专案至Azure

git clone https://github.com/YourAccount/YourProjectName.git

启动网站部署(每次更新也是下这个指令)

az webapp up --location westeurope --name YourProjectName --html

- ·建立一个预设的Resource Group
- ·建立一个预设的App Service Plan
- ·依据你输入的项目名称建立App
- ·部署并启动你的Web App



延伸学习资源

Azure 网站开发

· Azure 云端服务基础

https://docs.microsoft.com/en-us/learn/paths/azure-fundamentals/

·将网站部署于Azure 虚拟机

https://docs.microsoft.com/en-us/learn/paths/deploy-a-website-with-azure-virtual-machines/

·学习C#程序语言

https://docs.microsoft.com/en-us/learn/paths/csharp-first-steps/

· 利用Azure App Service部署你的网站

https://docs.microsoft.com/en-us/learn/paths/deploy-a-website-with-azure-app-service/

微软认证

- Microsoft Certified Solutions Associate
- Microsoft Certified Solutions Developer (MCSD)
- Microsoft Certified: Azure Developer Associate
- Azure Fundamentals



Microsoft Reactor 上海 – 数据科学系列

日期	星期	时间	主题
5/29	五	19:30 ~ 21:30	Python 程序设计入门
6/04	四	19:30 ~ 21:30	数据维护与清理
6/18	五	19:30 ~ 21:30	Numpy & Pandas
6/20	<u> </u>	14:30 ~ 16:30	数据科学案例练习





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