leafLet Map

Build School 助教 2021.06



地圖服務CDN

有2份CDN引用,放head裡即可,(我先貼給大家)

基本地圖:

https://leafletjs.com/examples/quick-start/ (官方)

叢集標記(marker用):

https://github.com/Leaflet/Leaflet.markercluster (官方擴充)

```
<!-- map -->
<link rel="stylesheet" href="https://unpkg.com/leaflet@1.7.1/dist/leaflet.css"
    integrity="sha512-xodZBNTC5n17Xt2atTPuE1HxjVMSvLVW9ocqUKLsCC5CXdbqCmblAshOMAS6/keqq/sMZMZ19scR4PsZChSR7A=="
        crossorigin="" />
<script src="https://unpkg.com/leaflet@1.7.1/dist/leaflet.js"
    integrity="sha512-XQoYMqMTK8LvdxXYG3nZ448hOEQiglfqkJs1NOQV44cWnUrBc8PkAOcXy20w0vlaXaVUearIOBhiXZ5V3ynxwA=="
        crossorigin=""></script>
<link rel="stylesheet" href="https://unpkg.com/leaflet.markercluster@1.4.1/dist/MarkerCluster.Default.css" />
<script src="https://unpkg.com/leaflet.markercluster@1.4.1/dist/leaflet.markercluster.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>
```



開始使用地圖

HTML、CSS的部分可參考範例,

Step1: 初始化地圖(另提醒,官方文件標示map區塊CSS要設定高度)

Step2: 設定圖資來源(可自行替換,這邊用官方推薦)

這邊設完已經可以看到基本地圖



改變地圖焦點

https://leafletjs.com/reference-1.7.1.html#map-methods-for-modifying-map-state

map.setView([country.Lat, country.Lng], 12);

經緯度座標

縮放值



為地圖標上marker

這邊直接用官方擴充套件,https://github.com/Leaflet/Leaflet.markercluster 他可以直接自動將marker叢集,並且對多marker提供更好的使用方式

Step1: 先宣告全域變數markers,並初始化

```
let markers = L.markerClusterGroup();
```

Step2: 產生marker物件

```
let marker = L.marker([data[0].Lat, any 0].Lng]);
```

經緯度座標

Step3: 將marker加入markers叢集(有幾個marker就加幾次,所以可以跑回圈)

```
markers.addLayer(marker);
```

Step4: markers 叢集加入至map(加完之後就可以看到標記在地圖上)

```
map.addLayer(markers);
```



marker補充

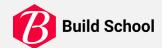
1. 清空markers叢集

```
markers.clearLayers();
```

2. 可為marker加入click監聽事件

3. marker.bindPopup(),點擊後跳出小視窗(參數可直接填入HTML字串)





範例程式,台灣各地區用水量

成品範例: https://choujustice.github.io/Map/index.html

資料來源: https://data.gov.tw/(政府公開資料平台)

台灣行政區域

https://raw.githubusercontent.com/ChouJustice/ChouJustice.github.io/main/Map/%E5%8F%B0%E7%81%A3%E8%A1%8C%E6%94%BF%E5%9C%B0%E5%8D%80.json

台灣各行政區每月平均每人用水量

https://raw.githubusercontent.com/ChouJustice/ChouJustice.github.io/main/Map/%E5%8F%B0%E7%81%A3%E8%87%AA%E4%BE%86%E6%B0%B4%E7%94%A8%E9%87%8F.json

開始做,請專注跟著助教做



補充

除了今天範例之外,官網還有提供很多功能,不可能一個一個帶著大家做,例如,

- 自定義marker icon圖示,<u>https://leafletjs.com/examples/custom-icons/</u>
- 畫圓、畫多邊形,<u>https://leafletjs.com/examples/quick-start/</u>

所以,要培養自己學新事物時看文件的能力,期許各位學員在BuildSchool培養Learn how to learn 的能力。

