18.Chart.js

1. 安裝方法

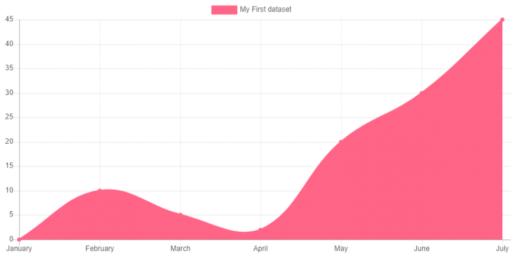
```
sweetcake
```

```
参考 https://www.chartjs.org/
<!-- Chart.js v2.4.0 -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.4.0/Chart.min.js">
</script>
```

2. 官網範例

```
<canvas id="myChart"></canvas>
```

來自 < https://www.chartjs.org/docs/latest/getting-started/>



3. 動態產生圖表

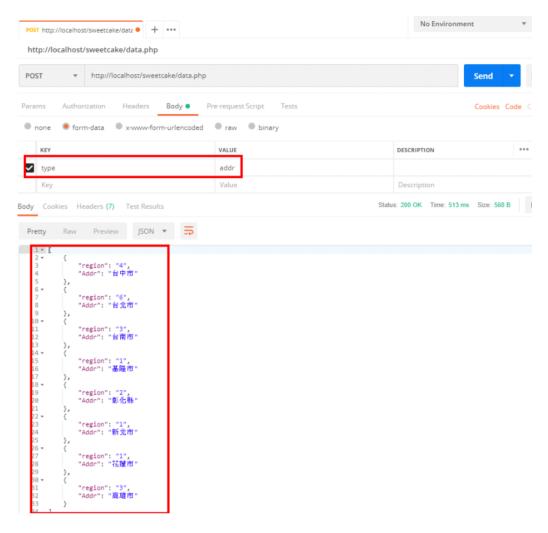
在後台可以圖表將複雜的資料顯示得更清楚 首先必須要具備一個api 可以提供資料 撈取並統計以下資料庫,統計並輸出各個縣市有多少人



撰寫後端API來提供各個縣市的人數

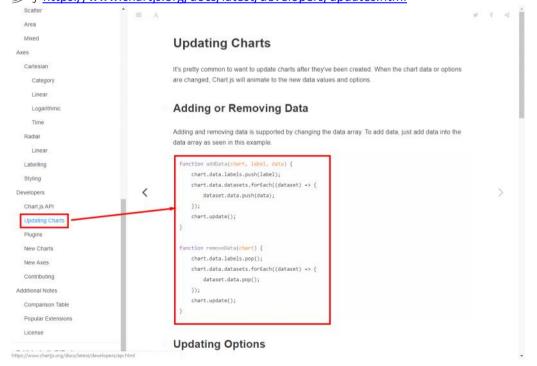
輸出的欄位名稱為 region

SELECT count(Addr) as region, Addr FROM userdata GROUP BY Addr



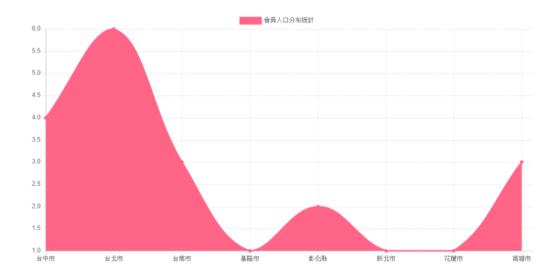
4. 更新chartis

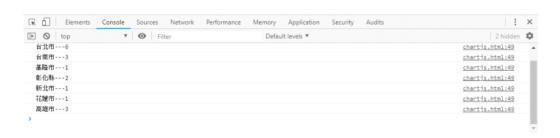
參考 https://www.chartjs.org/docs/latest/developers/updates.html



以ajax取得 api資料後再將資料欄位更新 chart.data.labels.**push**(data[i].Addr); chart.data.datasets[0].data.**push**(data[i].region); 更新完後重新畫圖 chart.update();

```
$.ajax({
    type: "POST",
    url: "http://localhost/sweetcake/data.php",
    data:{type: "addr"},
    dataType: "json",
    success: showdata,
    error: function(){
      alert("chart error");
  });
 function showdata(data){
    chart.data.labels= [];
    chart.data.datasets[0].data = [];
    chart.data.datasets[0].label = "會員人口分布統計"
    for(i=0; i< data.length; i++){</pre>
      chart.data.labels.push(data[i].Addr);
      chart.data.datasets[0].data.push(data[i].region);
      console.log(data[i].Addr+'---'+data[i].region);
    chart.update();
</script>
```





5. 以長條圖為例練習!





6. 以圓餅圖為例練習

