



CHART

圖表

函數庫

Chart.js 為 Open Source 的前端繪圖函數庫

官網：<https://www.chartjs.org>

安裝：CDN

```
<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
```

使用 CANVAS 標籤繪圖

圖表需畫在 `canvas` 上，先在網頁的適當位置加上此標籤

```
#container {  
  width: 400px;  
  background-color: cornsilk  
}  
  
<body>  
  <div id="container">  
    <canvas id="mychart"></canvas>  
  </div>  
</body>
```

資料集

```
const data = [  
  { year: 2010, count: 10 },  
  { year: 2011, count: 20 },  
  { year: 2012, count: 15 },  
  { year: 2013, count: 25 },  
  { year: 2014, count: 22 },  
  { year: 2015, count: 30 },  
  { year: 2016, count: 28 },  
];
```

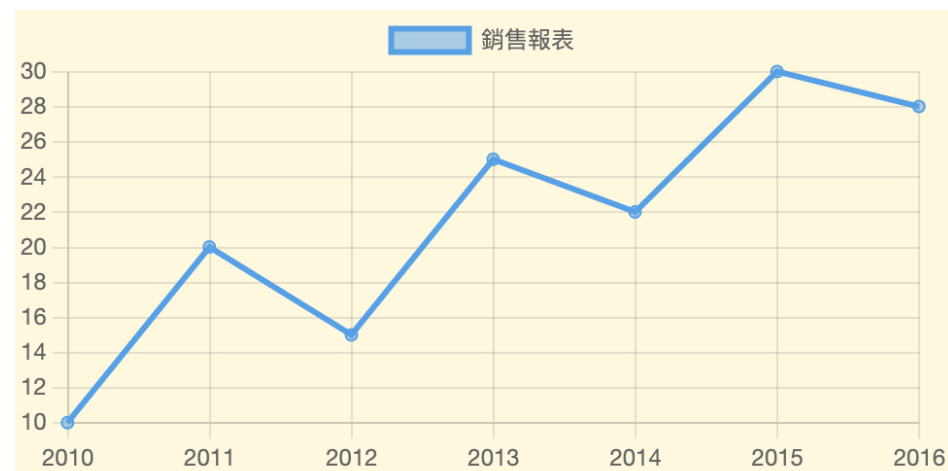
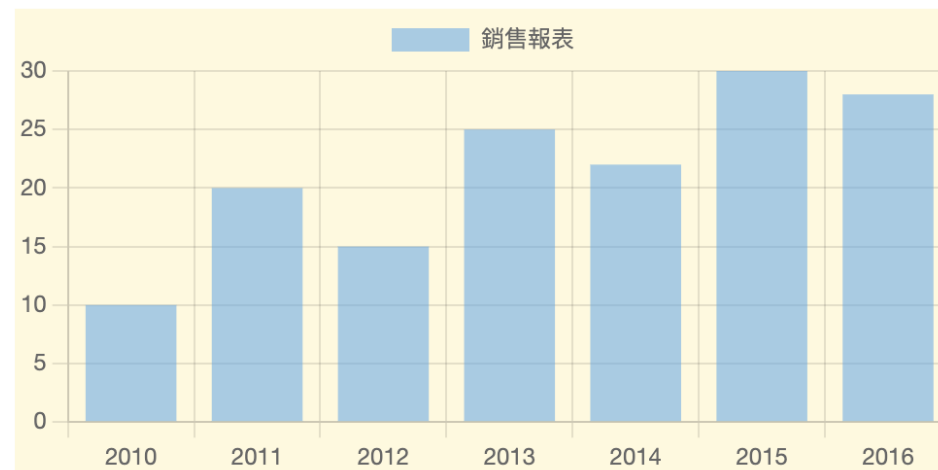
長條圖與折線圖

```
new Chart(  
  document.getElementById('mychart'),  
  {  
    type: 'bar',  
    data: {  
      x 軸: data.map(row => row.year),  
      datasets: [  
        {  
          label: '銷售報表',  
          y 軸: data.map(row => row.count)  
        }  
      ]  
    }  
  }  
)
```

line 表示折線圖

x 軸

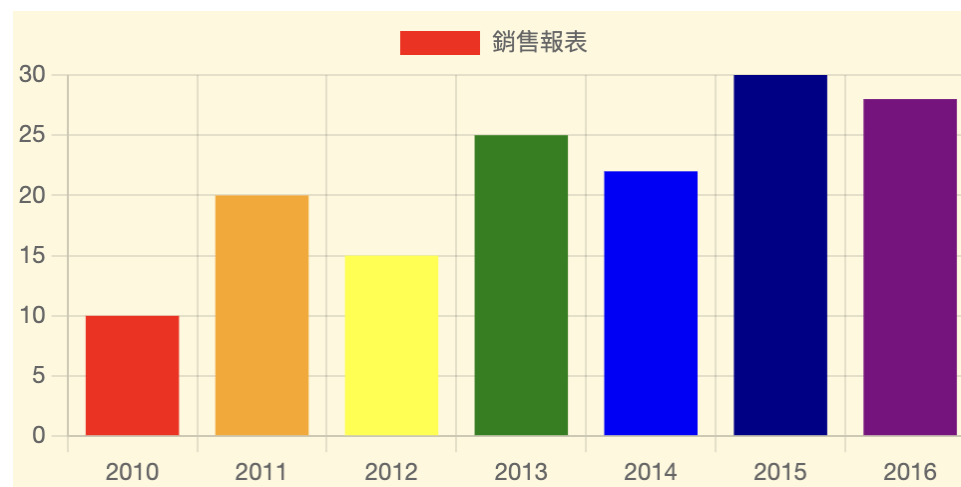
y 軸



換顏色

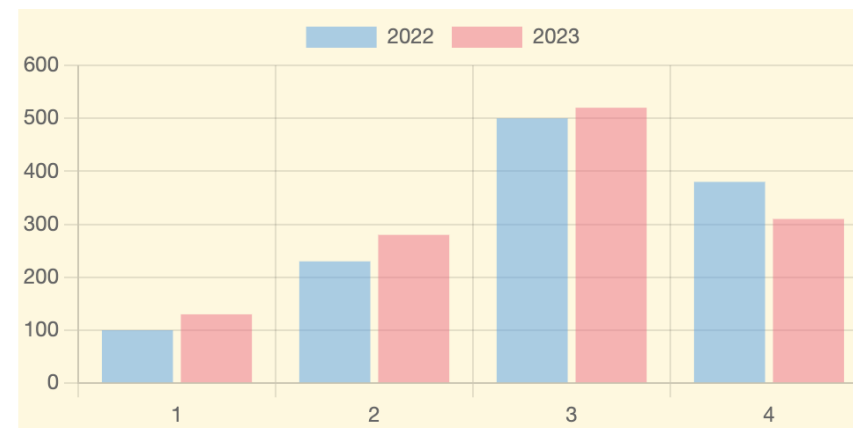
```
const bgcolor = [  
  'red', 'orange', 'yellow', 'green', 'blue', 'darkblue', 'purple'  
]
```

```
...  
datasets: [  
  {  
    label: '銷售報表',  
    backgroundColor: bgcolor,  
    data: data.map(row => row.count)  
  }  
]  
...
```



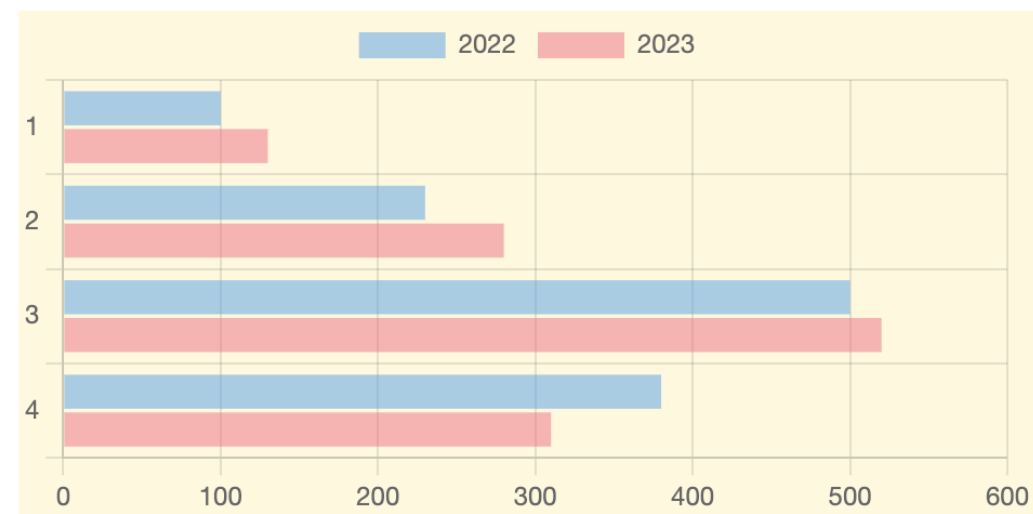
堆疊長條圖

```
data: {  
  labels: [1, 2, 3, 4],  
  datasets: [  
    {  
      label: '2022',  
      data: [100, 230, 500, 380]  
    },  
    {  
      label: '2023',  
      data: [130, 280, 520, 310]  
    }  
  ]  
}
```

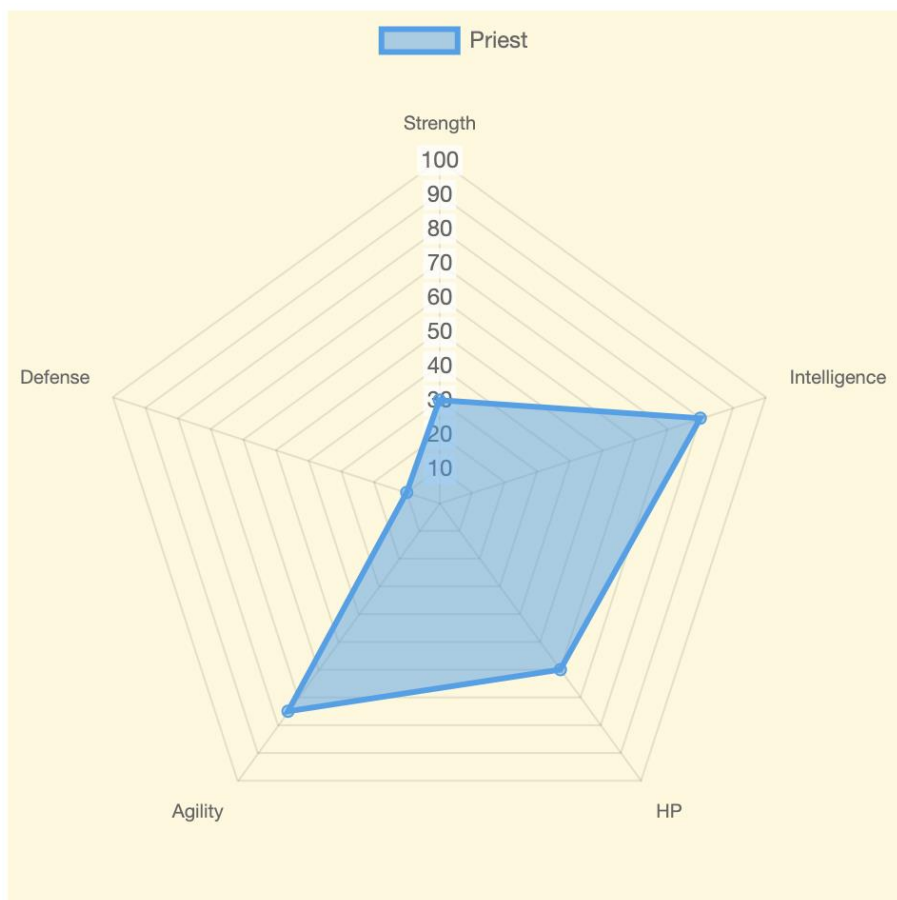


水平長條圖

```
{  
  type: 'bar',  
  data: { ... },  
  options: {  
    indexAxis: 'y'  
  }  
}
```



雷達圖



```
type: 'radar',
data: {
  labels: ['Strength', 'Intelligence', 'HP', 'Agility', 'Defense'],
  datasets: [
    {
      label: 'Priest',
      data: [30, 80, 60, 75, 10]
    }
  ]
},
options: {
  scales: {
    r: {
      min: 0,
      max: 100
    }
  }
}
```

雷達圖用 r
軸