

# x.co/d3course/

## D3.js 課程資源

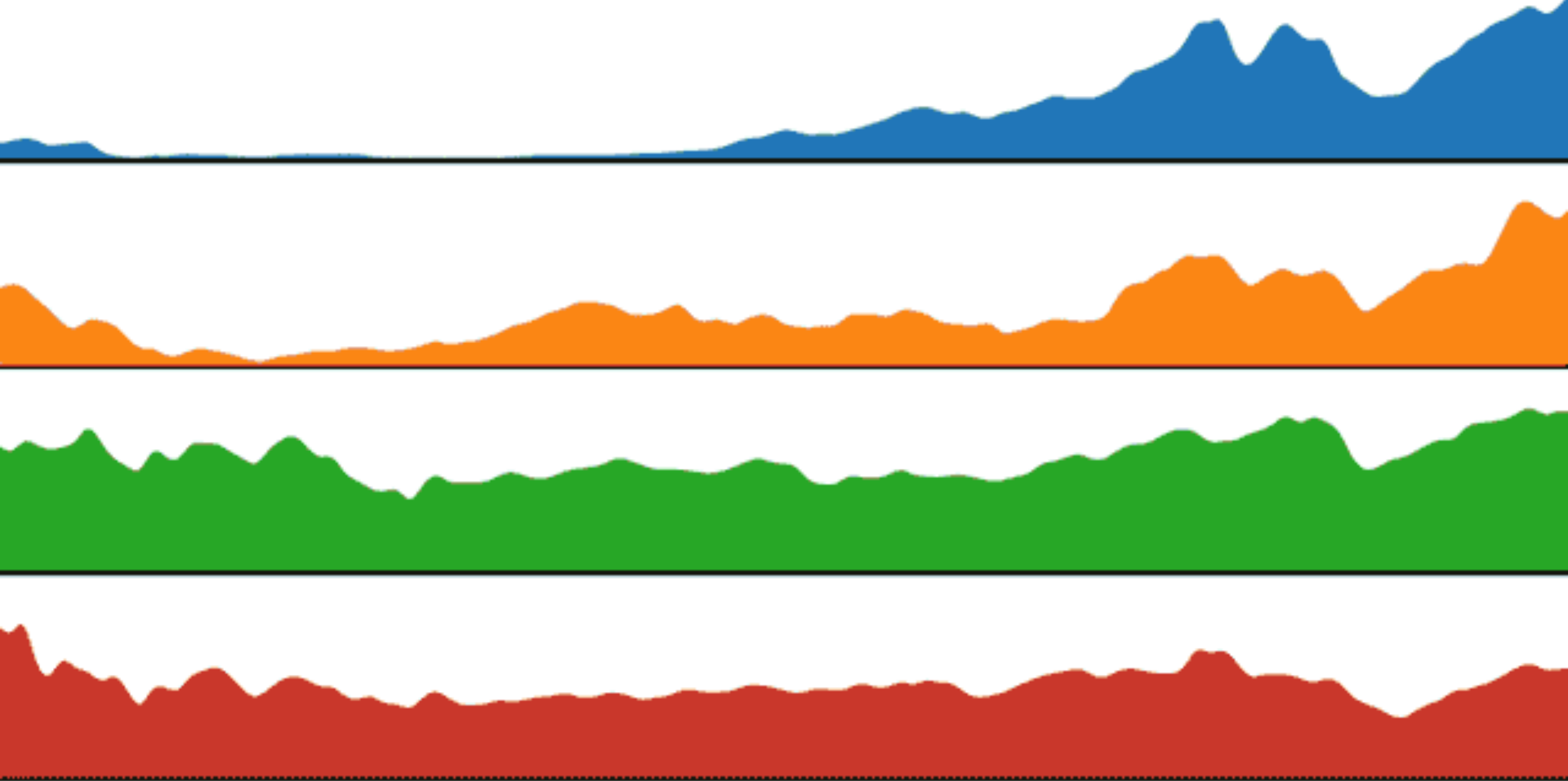
---

- [課程投影片](#)
- [範例程式檔](#)
- [線上範例](#)

# Environment Setup

1. unzip Example.zip
2. Create index.html inside Example/
3. Create index.html and type:

```
<body></body>  
<script src="d3.min.js"></script>  
<script>  
d3.select("body").text("Hello World!");  
</script>
```



# Continuous Transition

<http://bl.ocks.org/mbostock/1256572>



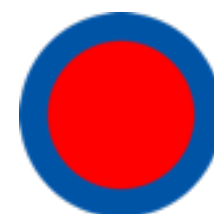
```
<body>  
<svg width="100%" height="100%">  
</svg>  
</body>  
<script src="d3.min.js"></script>  
<script></script>
```

## 練習 #01 利用 SVG 畫一個紅色的圓

```
<body>
<svg width="100%" height="100%">
<circle
  cx="200"
  cy="200"
  r="100"
  fill="red" />
</svg>
</body>
<script src="d3.min.js"></script>
<script></script>
```



加分題: 加上邊框



```
stroke: "blue",
"stroke-width": 5
```

**<circle/>**

**cx, cy, r**

**<rect/>**

**x, y, width, height**

**<line/>**

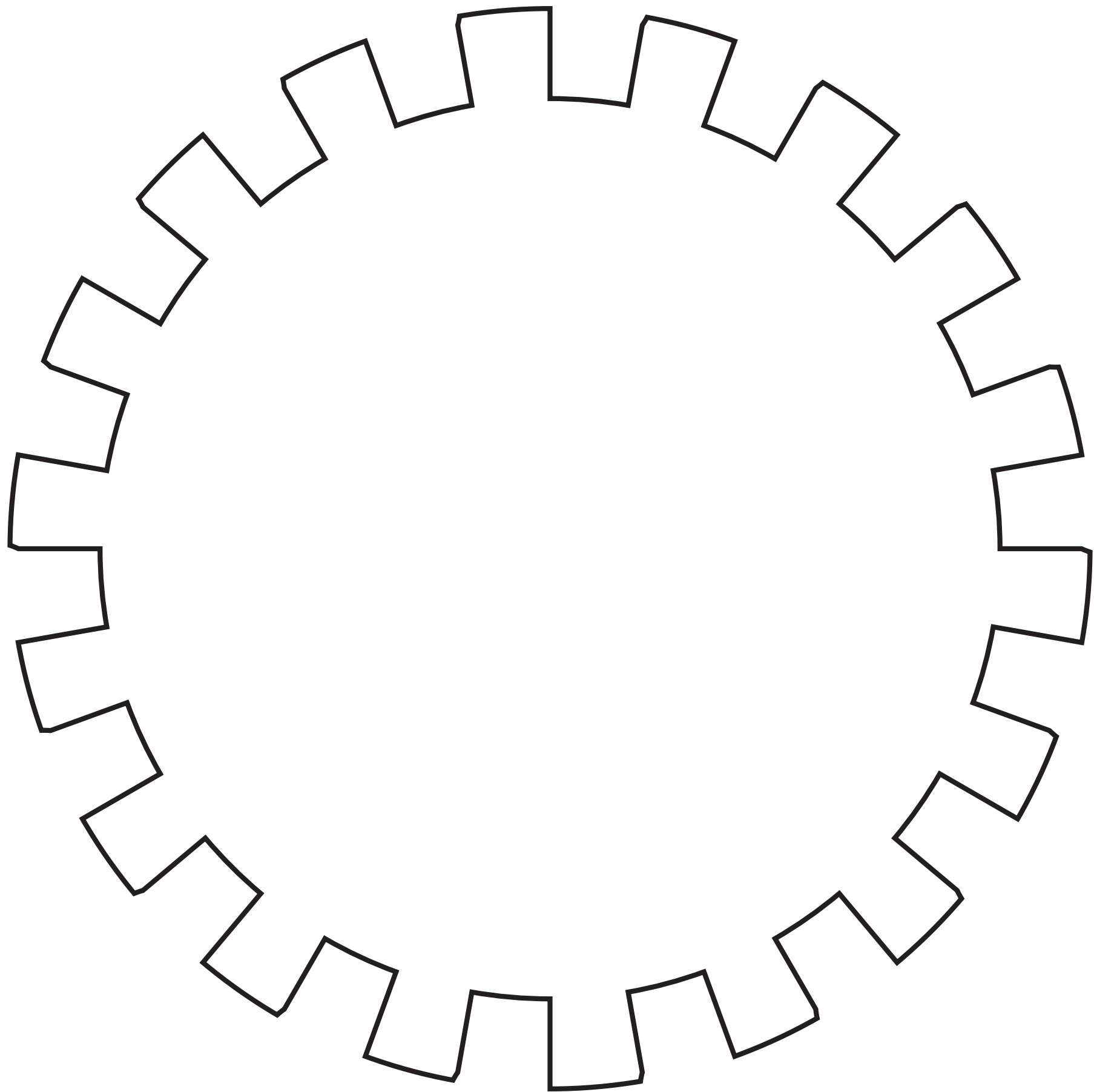
**x1, y1, x2, y2**

**<path/>**

**d**

**<text></text>**

**x, y, dx, dy**





```
<?xml version="1.0" encoding="utf-8"?> <!-- Generator: Adobe Illustrator  
19.0.0, SVG Export Plug-In . SVG Version: 6.00 Build 0) --> <svg version  
="1.1" baseProfile="tiny" id="Layer_1" xmlns="http://www.w3.org/2000/svg"  
xmlns:xlink="http://www.w3.org/1999/xlink" x="0px" y="0px" viewBox="0 0  
1024 576" xml:space="preserve"> <path id="XMLID_39_" fill="#FFFFFF" strok  
e="#231F20" stroke-miterlimit="10" d="M574.4,270.8c1.1-6.1,1.6-12.1,1.6-1  
8.1 c-0.6-0.2-1.1-0.4-1.7-0.7H558c0-5.3-0.5-10.6-1.4-15.6l17.7-3.1c-1.1-6  
.1-2.6-11.9-4.6-17.6c-0.6,0-1.2,0-1.8,0l-15.3,5.6 c-1.8-5-4-9.7-6.6-14.2l  
15.6-9c-3.1-5.3-6.6-10.3-10.4-14.9c-0.6,0.2-1.1,0.4-1.7,0.6l-12.5,10.5c-3  
.4-4-7.1-7.7-11.1-11.1 l11.6-13.8c-4.7-4-9.7-7.5-14.8-10.5c-0.4,0.4-0.9,0  
.8-1.4,1.1L513,174c-4.5-2.6-9.3-4.8-14.2-6.6l6.1-16.9 c-5.8-2.1-11.7-3.7-  
17.5-4.8c-0.3,0.5-0.6,1.1-0.9,1.6l-2.8,16.1c-5.1-0.9-10.3-1.4-15.6-1.4v-1  
8c-6.2,0-12.2,0.5-18.1,1.5 c-0.1,0.6-0.2,1.2-0.4,1.8l2.8,16.1c-5.2,0.9-10  
.3,2.3-15.2,4.1l-6.1-16.9c-5.8,2.1-11.3,4.7-16.5,7.6c0.1,0.6,0.2,1.2,0.3,  
1.8 L423,174c-4.5,2.6-8.8,5.7-12.8,9l-11.6-13.8c-4.7,4-9,8.3-12.9,12.8c0.  
3,0.5,0.6,1,0.9,1.6l12.5,10.5c-3.4,4-6.4,8.3-9,12.8 l-15.6-9c-3.1,5.3-5.7  
,10.8-7.7,16.4c0.5,0.4,0.9,0.8,1.4,1.2l15.3,5.6c-1.8,4.9-3.1,9.9-4.1,15.2  
l-17.7-3.1 c-1.1,6.1-1.6,12.1-1.6,18.1c0.6,0.2,1.1,0.4,1.7,0.7H378v0c0,5.  
3,0.5,10.6,1.4,15.6l-17.7,3.1c1.1,6.1,2.6,11.9,4.6,17.6 c0.6,0,1.2,0,1.8,  
0l15.3-5.6c1.8,5,4,9.7,6.6,14.2l-15.6,9c3.1,5.3,6.6,10.3,10.4,14.9c0.6-0.  
2,1.1-0.4,1.7-0.6l12.5-10.5 c3.4,4,7.1,7.7,11.1,11.1l-11.6,13.8c4.7,4,9.7  
,7.5,14.8,10.5c0.4-0.4,0.9-0.8,1.4-1.1L423,330c4.5,2.6,9.3,4.8,14.2,6.6l-  
6.1,16.9 c5.8,2.1,11.7,3.7,17.5,4.8c0.3-0.5,0.6-1.1,0.9-1.6l2.8-16.1c5.1,  
0.9,10.3,1.4,15.6,1.4v18c6.2,0,12.2-0.5,18.1-1.5 c0.1-0.6,0.2-1.2,0.4-1.8  
l-2.8-16.1c5.2-0.9,10.3-2.3,15.2-4.1l6.1,16.9c5.8-2.1,11.3-4.7,16.5-7.6c-  
0.1-0.6-0.2-1.2-0.3-1.8 L513,330c4.5-2.6,8.8-5.7,12.8-9l11.6,13.8c4.7-4,9  
-8.3,12.9-12.8c-0.3-0.5-0.6-1-0.9-1.6l-12.5-10.5c3.4-4,6.4-8.3,9-12.8l15.  
6,9 c3.1-5.3,5.7-10.8,7.7-16.4c-0.5-0.4-0.9-0.8-1.4-1.2l-15.3-5.6c1.8-4.9  
,3.1-9.9,4.1-15.2L574.4,270.8z"/></svg>
```

```
<svg  
  width="width" height="height"  
  viewBox="x1 y1 x2 y2">
```

width

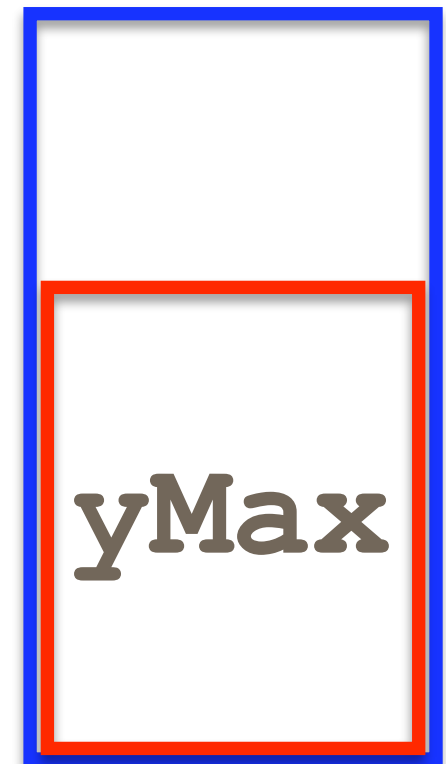
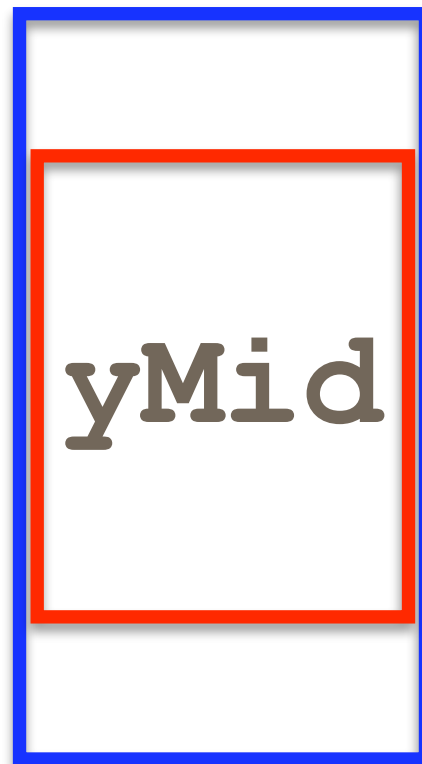
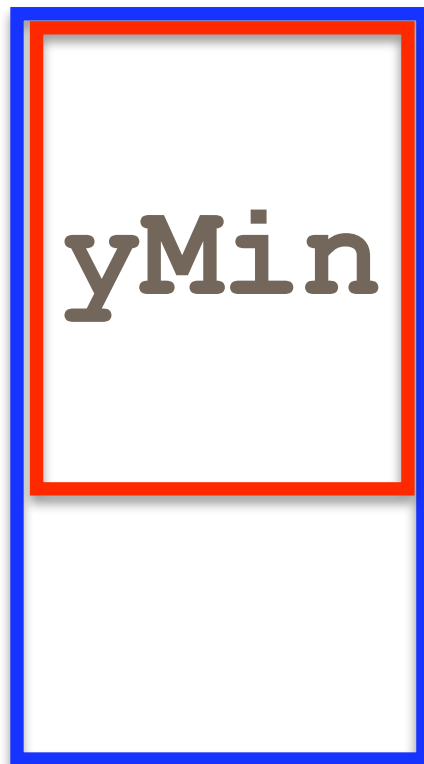
(x1,y1)

height

(x2,y2)



# preserveAspectRatio



```
<SVG  
width="800px" height="600px"  
viewBox="0 0 400 300"  
preserveAspectRatio="xMidYMid">
```

```
d3.select("svg")  
  .append("circle")  
  .attr({  
    cx: 200,  
    cy: 200,  
    r: 100,  
    fill: "red"  
  });
```



```
d3.select("svg")  
  .append("circle")  
  .attr({  
    cx: 200,  
    cy: 200,  
    r: 100,  
    fill: "red"  
  });
```

functional  
style

(注意傳回值)



config with  
object

## 練習 #02 利用 D3.js 畫一個紅色的長方形

```
<body>
<svg width="100%" height="100%">
</svg>
</body>
<script src="d3.min.js"></script>
<script>
d3.select("svg")
  .append("rect")
  .attr({
    x: 10,
    y: 10,
    width: 100,
    height: 20,
    fill: "red"
});
</script>
```



加分題: 畫一個 Quby  
(使用 circle + rect 即可辦到)







**css  
selector**

```
var node = d3.select("body");  
node.text("Hello World!");  
node.html("<b>Hello World!</b>");  
node.attr({"data-toggle": "#me"});  
node.style({"width": "100%"});
```

```
node.text( "Hello World!" )
```

```
<body>Hello World!</body>
```

```
node.html( "<b>Hello World!</b>" )
```

```
<body><b>Hello World!</b></body>
```

```
node.attr( { "data-toggle": "#me" } )
```

```
<body data-toggle="#me"></body>
```

```
node.style( { "width": "100%" } )
```

```
<body style="width:100%"></body>
```

```
node.style(  
    {  
        "width": "100%",  
        "height": "100%",  
        "background": "red"  
    }  
)
```

```
var node = d3.select( "body" );
```

```
newnode = node.append( "div" );
```

```
<body><div></div></body>
```



return  
"div"

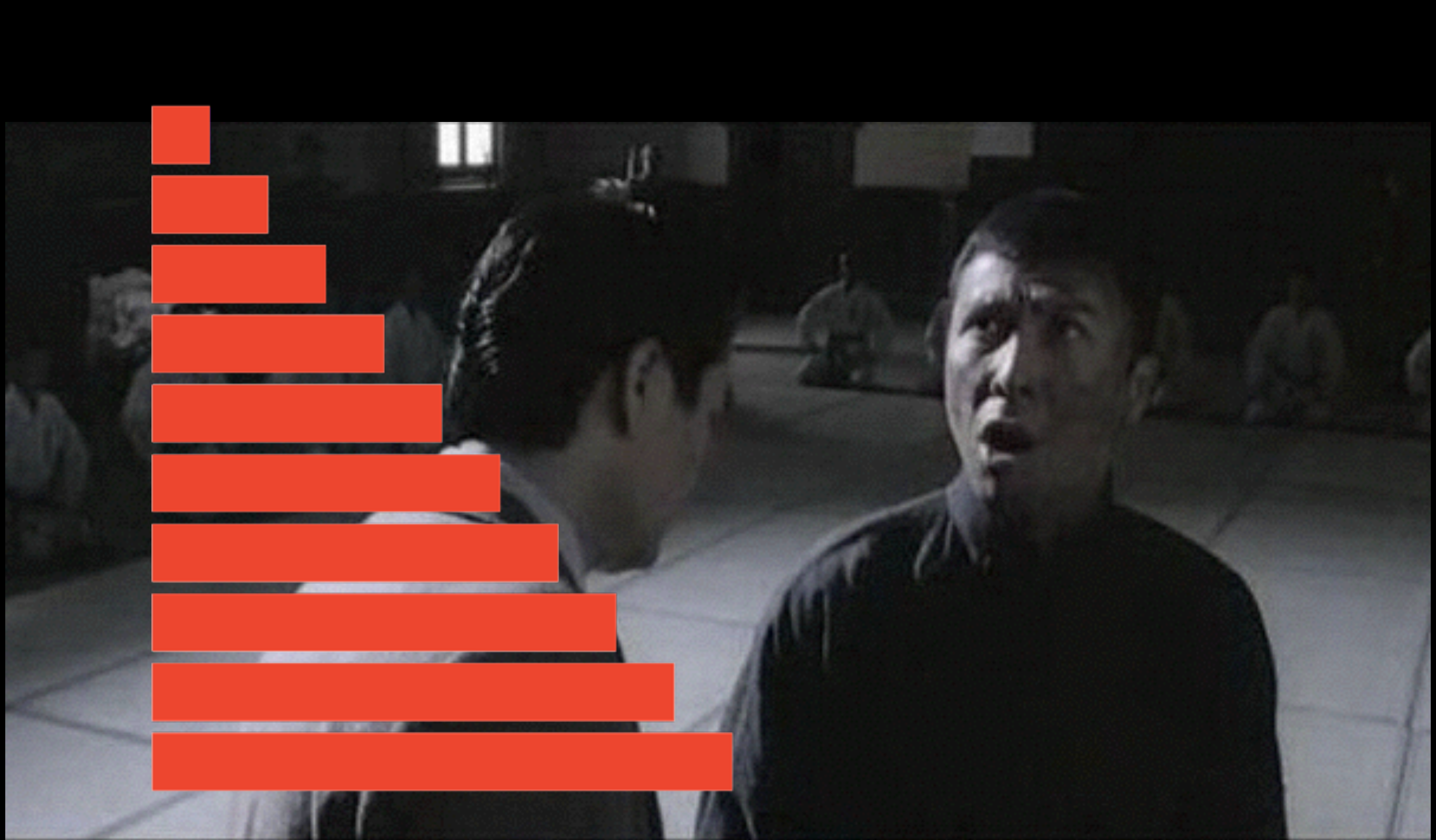
```
newnode.remove( );
```

```
<body></body>
```

## 練習 #02 利用 D3.js 畫一個紅色的長方形

```
<body>
<svg width="100%" height="100%">
</svg>
</body>
<script src="d3.min.js"></script>
<script>
d3.select("svg")
  .append("rect")
  .attr({
    x: 10,
    y: 10,
    width: 100,
    height: 20,
    fill: "red"
});
</script>
```





我要打十個

# 暴力法

```
= d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
= d3.select( "svg" ).append( "rect" ).attr( { ... } )
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

```
d3.select("svg").append("rect").attr({...})
```

**x 10**



# 使用迴圈

```
for(var i =1; i<=10;i++) {  
    d3.select("svg")  
        .append("rect")  
        .attr({  
            width: data[i]  
        });  
}
```

# 使用迴圈

reorder?

```
for(var i =1; i<=10;i++) {  
  d3.select("svg")  
    .append("rect")  
    .select("rect")  
    .style({  
      width: data[i]  
    });  
}
```

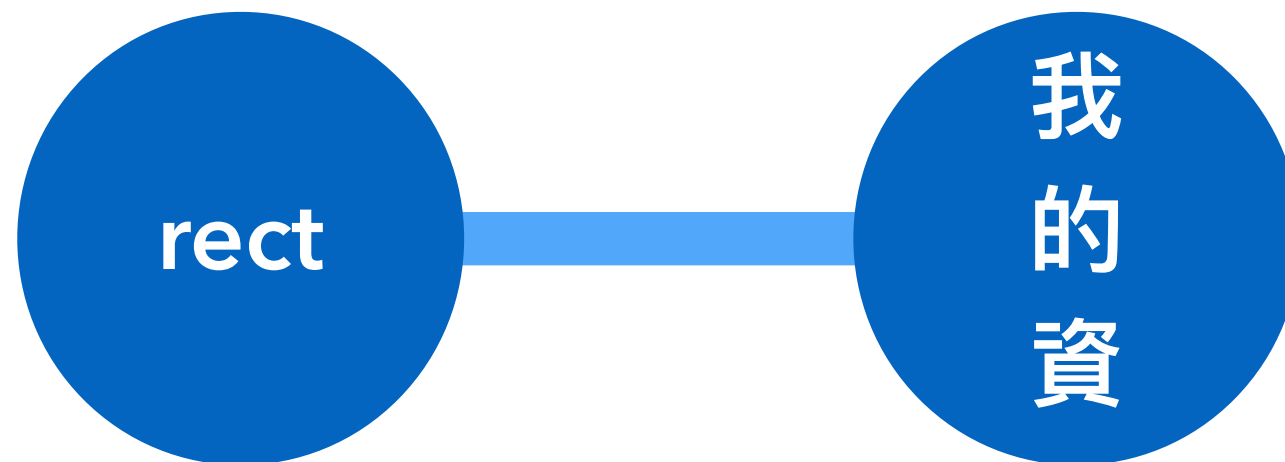
```
d3.select("rect:nth-of-type(5)")
```

data?

# Data Binding

```
d3.select("rect")
```

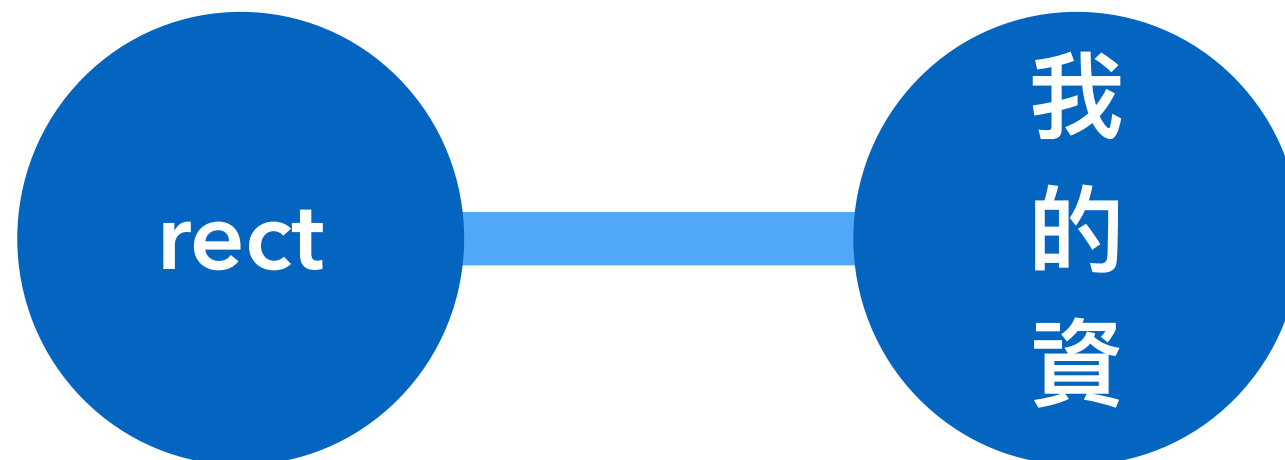
```
.datum( 我的資料 )
```



# Data Binding

```
d3.select("rect").datum( 我的資料 )
```

```
d3.select("rect").datum( );
```



# 使用迴圈

```
for(var i =1; i<=10;i++) {  
  d3.select("svg")  
    .append("rect")  
    .select("rect")  
    .style({  
      width: data[i] + "px"  
    });  
}
```

reorder?

```
d3.select("rect:nth-of-type(5)")
```

data?

**.datum()**

```
d3.select("rect")  
  .datum( 我的資料 )  
  .attr({  
    "width": function(d, i) {  
      return this;  
    }  
  });
```



config with  
function

|              |   |               |
|--------------|---|---------------|
| <b>d</b>     | = | 我的資料          |
| <b>this</b>  | = | <rect></rect> |
| <b>i</b>     | = | 0             |
| <b>width</b> | = | 回傳值           |

```
for(var i =1; i<=10;i++) {  
    d3.select("svg")  
        .append("rect")  
        .datum(data[i])  
        .attr({  
            width: function(d,i) {  
                return d * 10;  
            }  
        });  
}
```

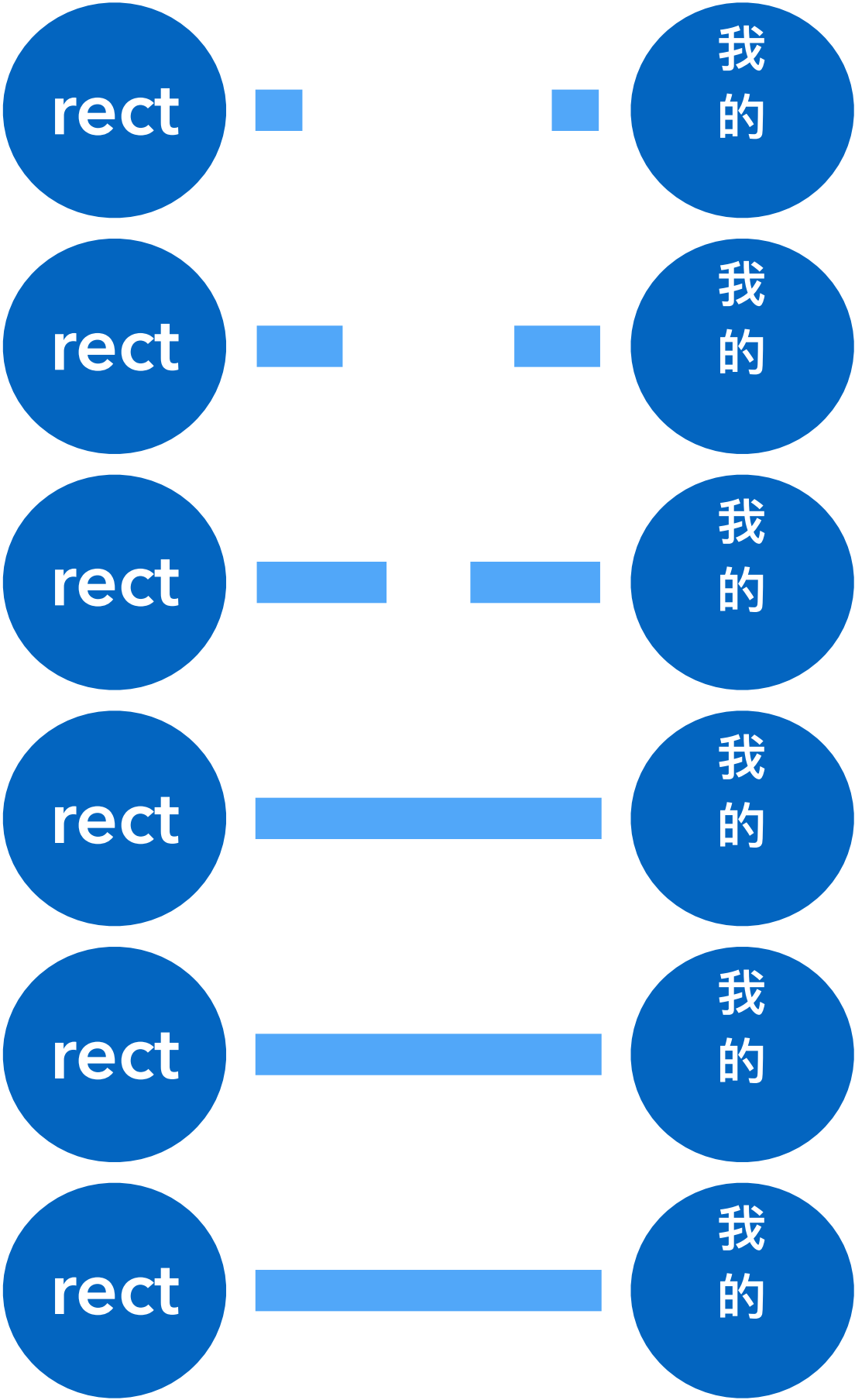
```
for(var i =1; i<=10;i++) {  
    d3.select("svg")  
        .append("rect")  
        .datum(data[i])  
        .attr({  
            width: function(d,i) {  
                return d * 10;  
            }  
        });  
}
```

到底要多少個？

多  
出來的



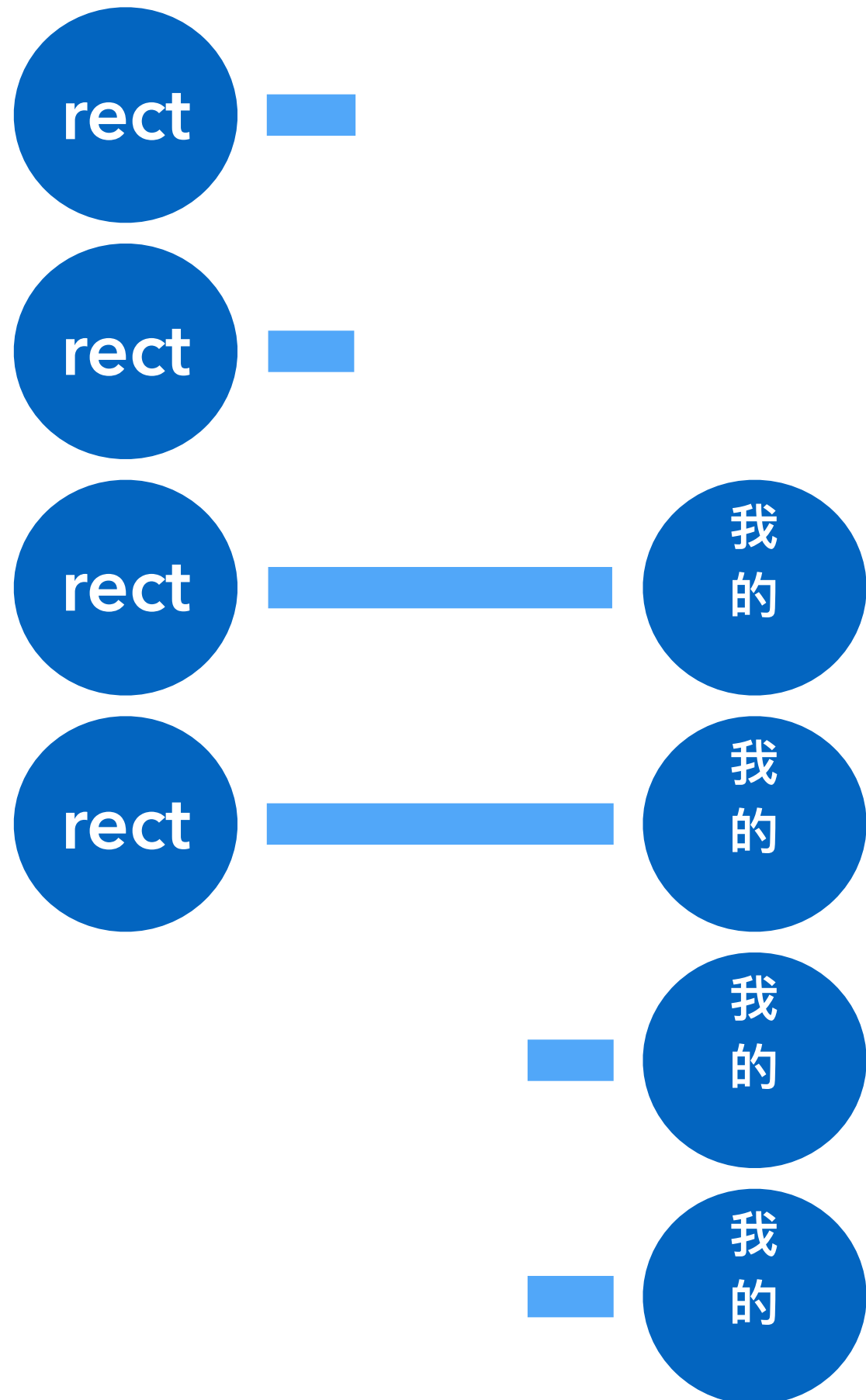
# 幫我自動 綁定資料



資料已經  
不見的

之前已經  
綁好的

還沒建立  
元素的

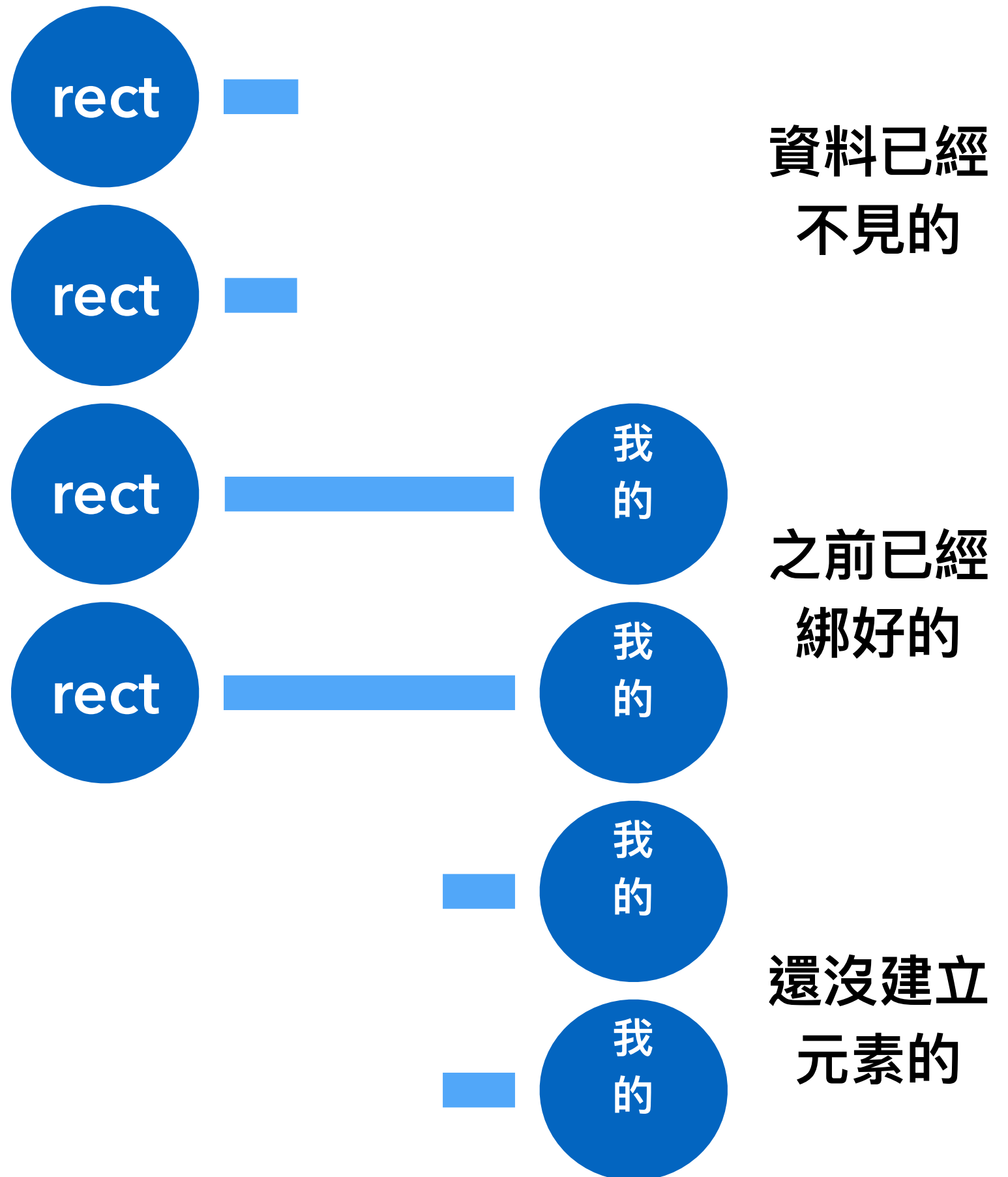


# 我們想要

A 集合

B 集合

C 集合



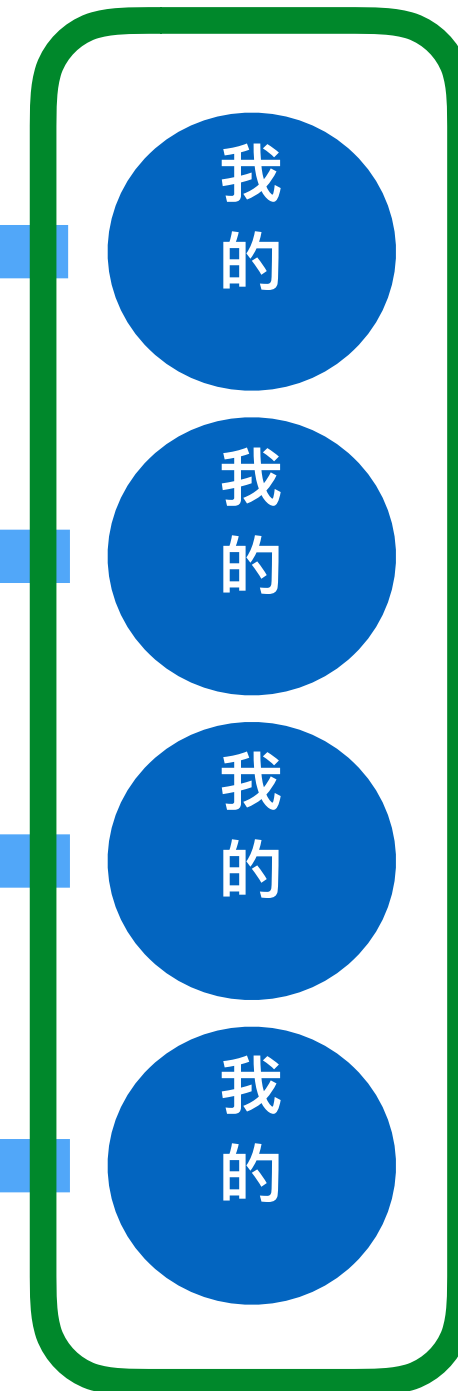
rect

rect

rect

rect

資料已經  
不見的

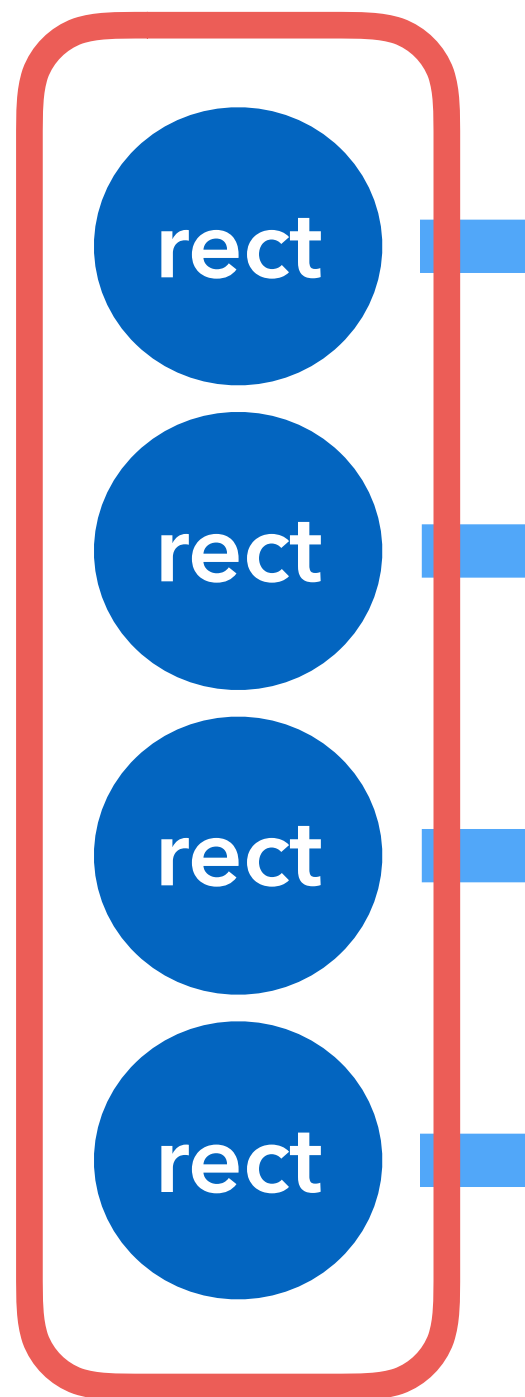


之前已經  
綁好的

還沒建立  
元素的

```
var mydata = [  
  3, 1, 4, 1, 5...  
];
```

```
var mydata = [
  3, 1, 4, 1, 5...
];
```



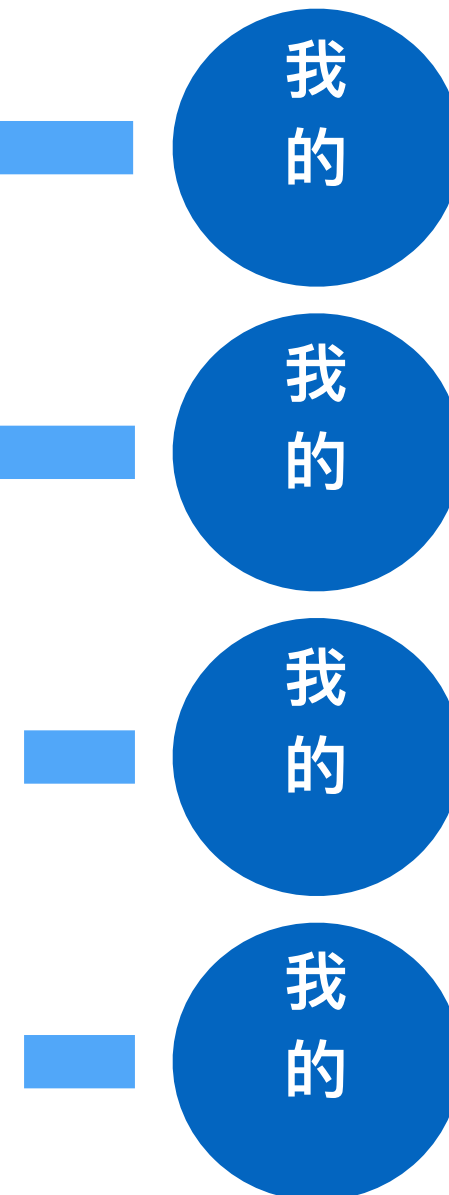
rect

資料已經  
不見的

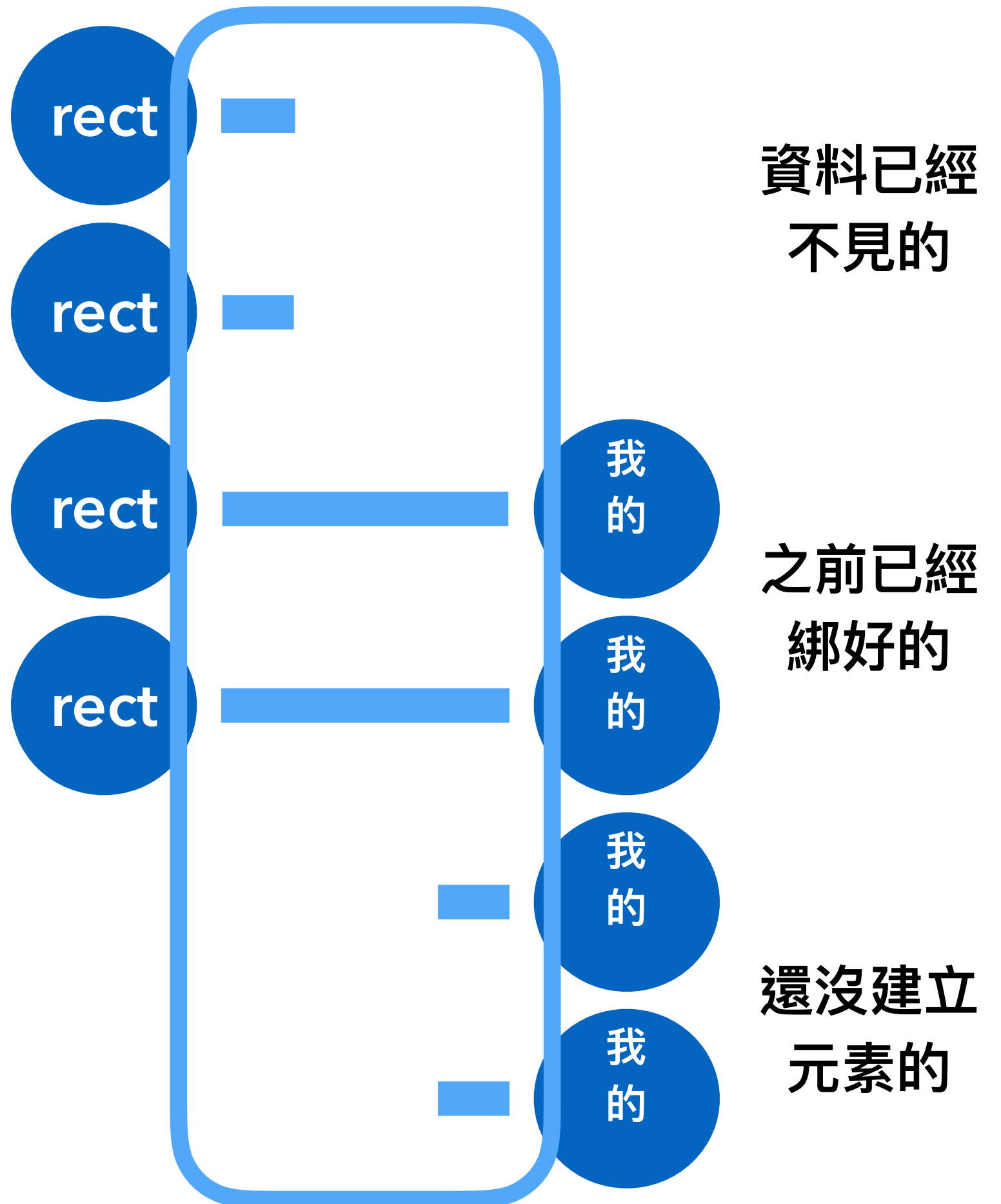
之前已經  
綁好的

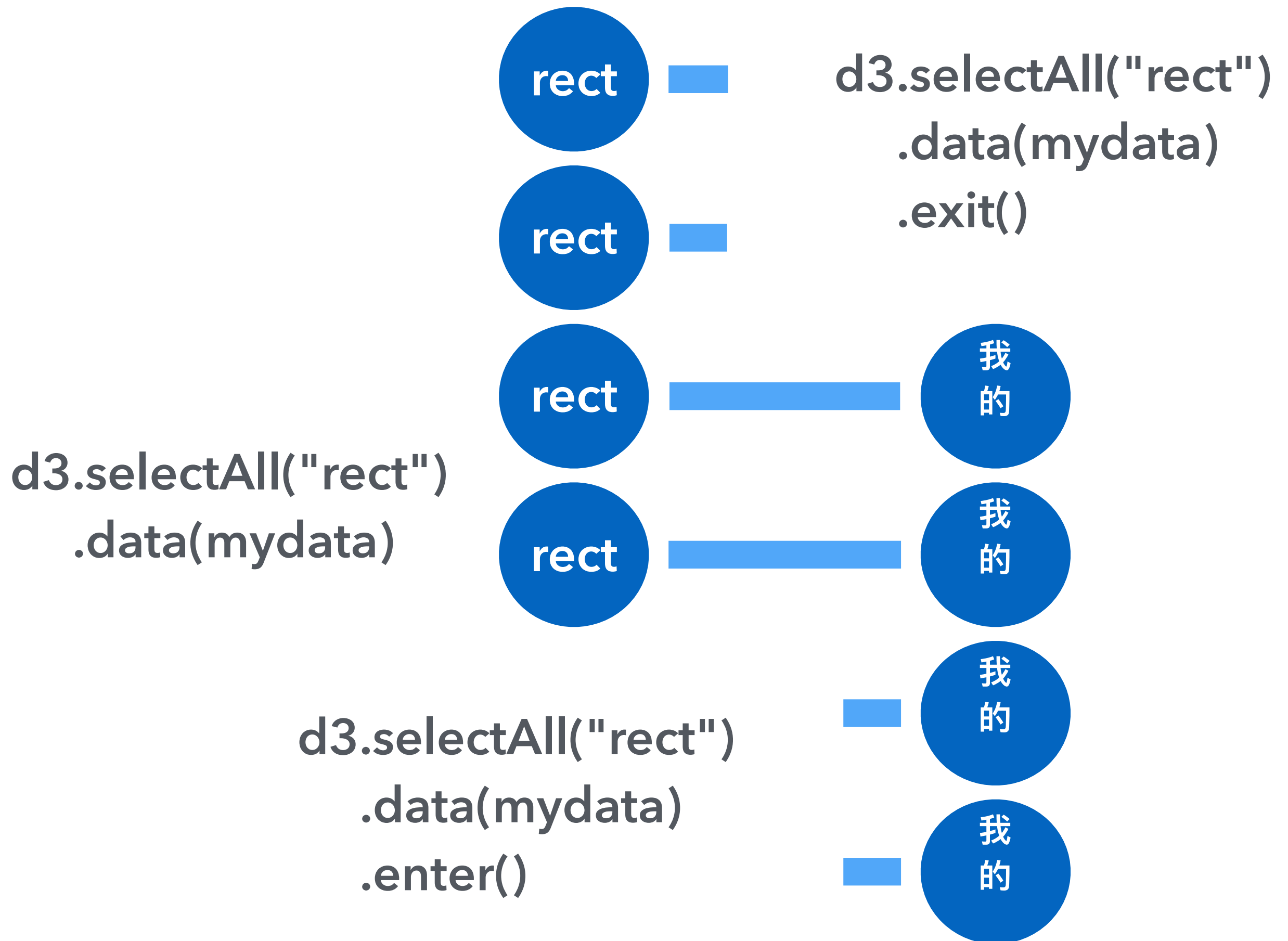
還沒建立  
元素的

```
d3.selectAll("rect")
```



```
var mydata = [
  3, 1, 4, 1, 5...
];
d3.selectAll("rect")
.data(mydata)
```



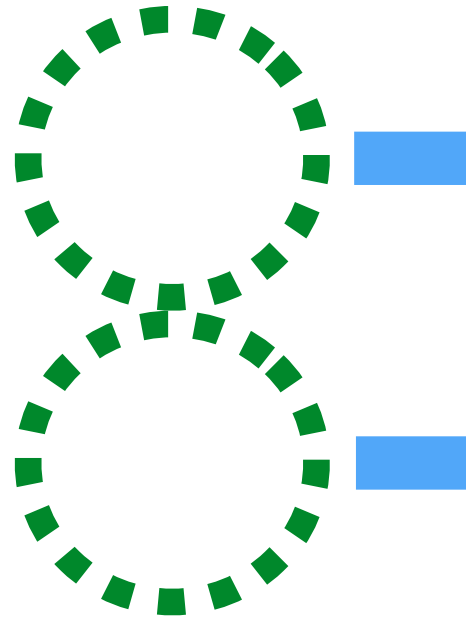


1.

```
var update = d3  
  .selectAll("rect")  
  .data(mydata);
```

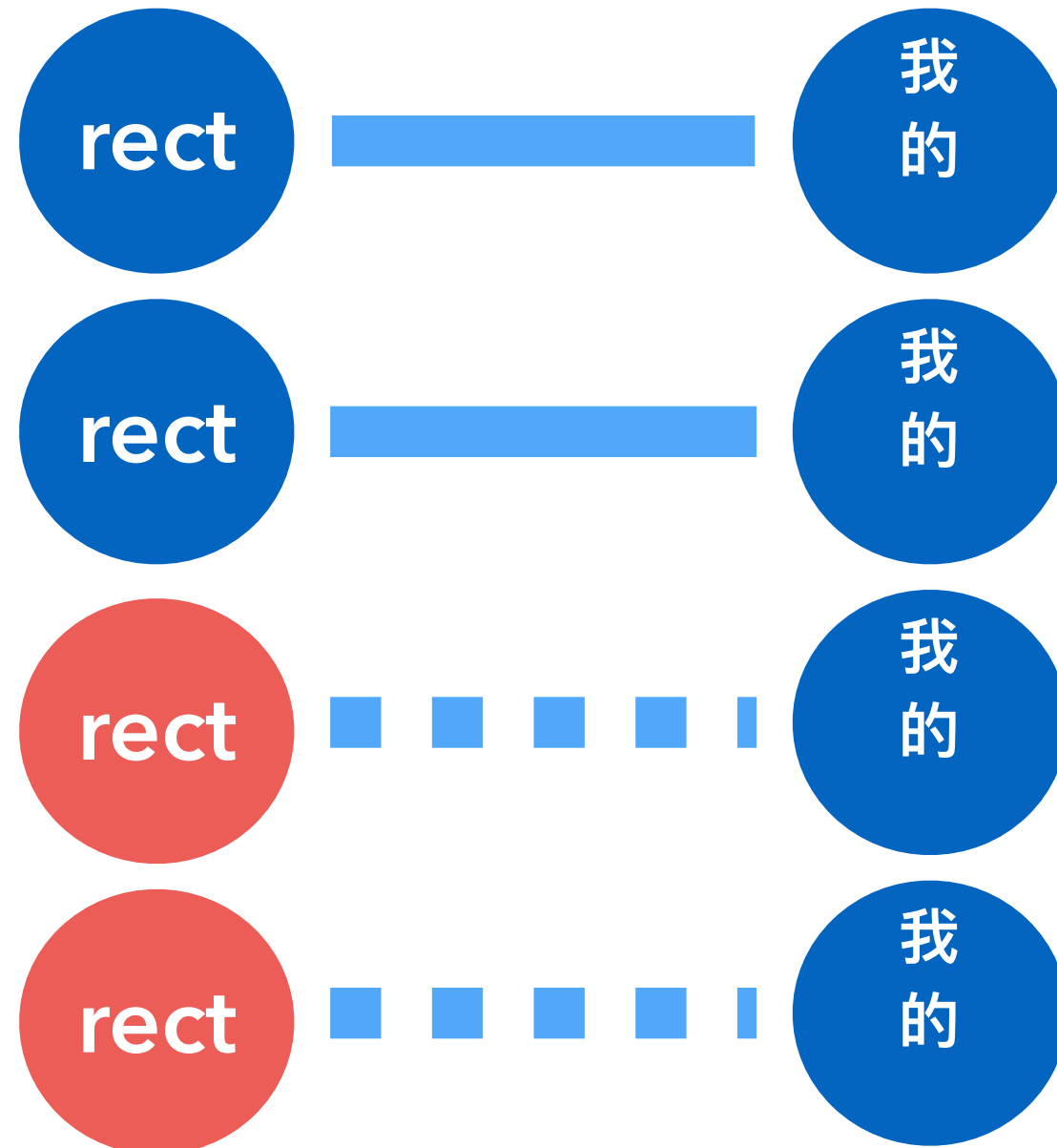
2.

```
update  
  .enter()  
  .append("rect")
```



3.

```
update  
  .exit()  
  .remove()
```





```
var update = d3
  .select("svg")
  .selectAll("rect")
  .data([3,1,4,1,5,9]);
```

不  
然會插在

```
update.enter()
  .append("rect");
```

```
update.exit()
  .remove();
```

```
var update = d3
  .select("svg")
  .selectAll("rect")
  .data([3,1,4,1,5,9]);
update.enter().append("rect");
update.exit().remove();
```

```
d3.selectAll("rect")
  .attr({
    width: function(d, i) {
      ...
    },
    ...
  });
```



```
var update = d3
    .select("svg")
    .selectAll("rect")
    .data([3,1,4,1,5,9]);
update.enter().append("rect");
update.exit().remove();
```

```
d3.selectAll("text")
    .text(function(d,i) {
        return "hello world!";
    });
```

```
var update = d3.select("svg")
    .selectAll("rect").data([3,1,4,1,5,9]);
update.enter().append("rect");
update.exit().remove();
d3.select("svg").selectAll("rect").attr({
    x: 10,
    y: function(d,i) {
        return i * 12;
    },
    width: function(d,i) {
        return d * 10;
    },
    height: 10,
    fill: "red"
});
```



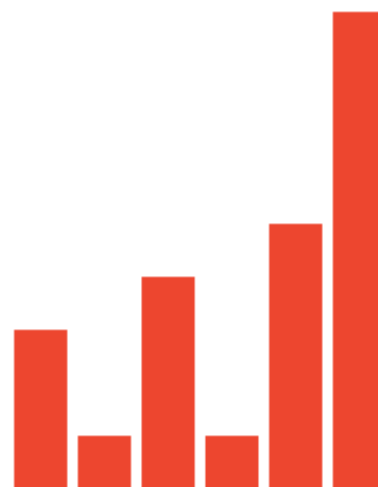
# 練習 #03 畫一個垂直的長條圖

範例資料：[3,1,4,1,5,9,2,6,5]

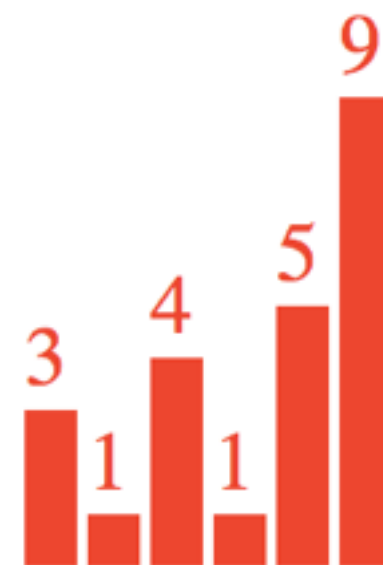
範例如下：



加分題1



加分題2



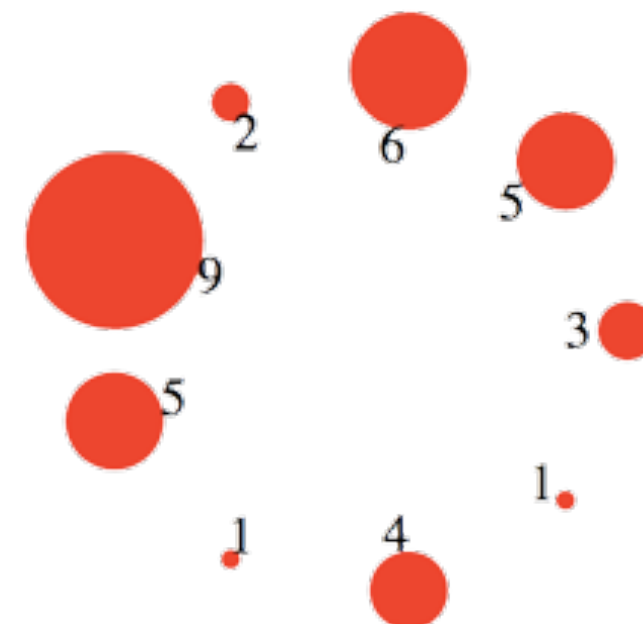
(使用 <text> 與 .text )

加分題3



(使用 circle )

加分題4



# 來點動畫吧！


```
d3.selectAll("rect")  
  .attr({width: 0})  
  .attr({width: 100})
```



能不能從  
0 變到100？

# 來點動畫吧！

```
d3.selectAll("rect")  
  .attr({width: 0})  
  .transition()  
  .attr({width: 100})
```



接下來的  
設定  
都要做動畫

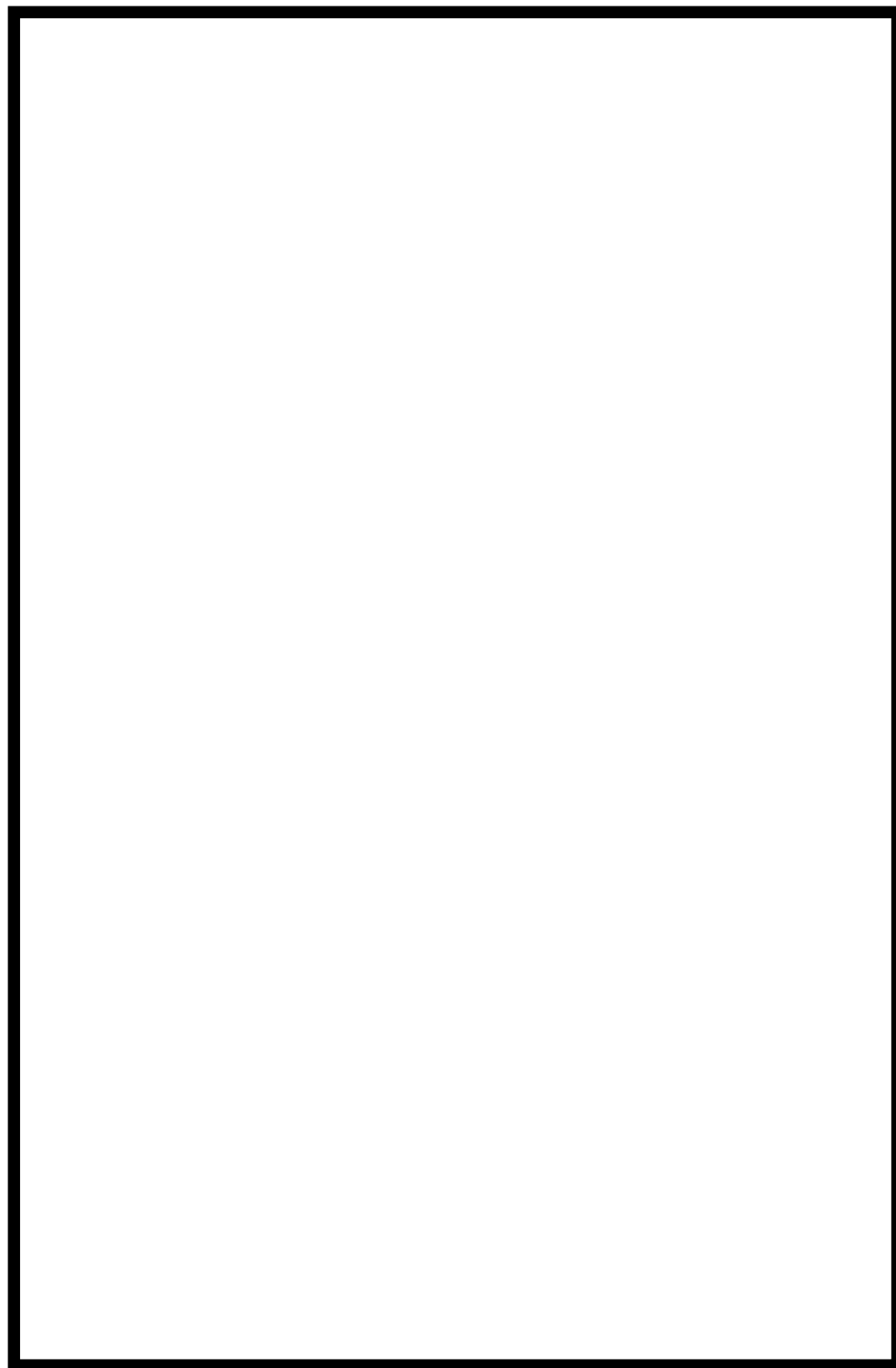
```
d3.selectAll("rect")  
  .attr({width: 0})  
  .transition()  
  .attr({width: 100})
```

## 分開寫也行

```
d3.selectAll("rect")  
  .attr({width: 0})  
d3.selectAll("rect")  
  .transition()  
  .attr({width: 100})
```



## 練習 #04 畫一個長出來的長條圖



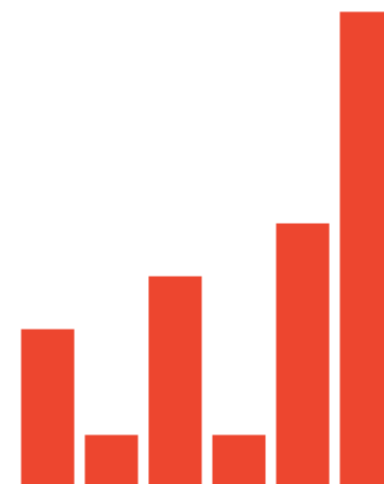
### 加分題1

```
transition()  
  .duration(ms)  
  .delay(ms)
```

可以改變動畫長度跟延遲，  
試著用用看吧！

(單位是千分之一秒)

### 加分題2: 從下面往上長



# 延遲與動畫長度

```
transition()  
  .duration(ms)  
  .delay(ms)
```

# Good Pattern

Binding

與

Styling

```
d3.selectAll("rect")  
  .data(data)  
  .enter()  
  .append("rect")  
  .attr({  
    class: "..."  
  });
```

只做初  
始設定

```
d3.selectAll("rect")  
  .attr({  
    ...  
  }).style({  
    ...  
  })
```

要分開

# Good Pattern

## Binding

```
function bind(data) {  
  d3.selectAll("rect")  
    .data(data)  
    .enter()  
    .append("rect")  
    .attr({  
      class: "..."  
    });  
}
```

## Styling

```
function render() {  
  d3.selectAll("rect")  
    .attr({  
      ...  
    }).style({  
      ...  
    })  
}
```

包裝起來，可重複使用

# Good Pattern

## Binding

```
function bind(data) {  
  d3.selectAll("rect")  
    .data(data)  
    .enter()  
    .append("rect")  
    .attr({  
      class: "..."  
    });  
}
```

## Styling

```
function render(delay) {  
  d3.selectAll("rect")  
    .transition()  
    .delay(delay)  
    .attr({  
      ...  
    }).style({  
      ...  
    })  
}
```

為了動畫，帶個延遲參數

# Rendering

```
bind([3,1,4,1,5,9]);  
render(0);  
bind([9,5,1,4,1,3]);  
render(1000);
```

練習 #05 畫一個長條圖，從 [3,1,4,1,5,9] 變形到 [9,5,1,4,1,3]

加分題1

一開始似乎閃了一下黑色

你能不能讓他一開始就是紅色呢？

加分題2

讓圖表在兩組資料間不斷來回變形

```
function bind(data) {  
  var update = d3.select("svg").  
    selectAll("rect").data(data);  
  update.enter().append("rect");  
  update.exit().remove();  
}
```

```
function render(delay) {  
  d3.select("svg").selectAll("rect")  
    .transition().delay(delay).attr({  
    x: function(d,i) { return i * 12; },  
    y: 10, width: 10,  
    height: function(d,i) { return d * 10; },  
    fill: "red"  
  });  
}
```

```
bind([3,1,4,1,5,9]);  
render(0);  
bind([9,5,1,4,1,3]);  
render(1000);
```

## #05 解答



```
function bind(data) {
  var update = d3.select("svg").
    selectAll("rect").data(data);
  update.enter().append("rect")
    .attr({/* 初始化設定 */});
  update.exit().remove();
}
function render(delay) {
  d3.select("svg").selectAll("rect").attr({
    /* 不想做動畫的設定 */
  });
  d3.select("svg").selectAll("rect")
    .transition().delay(delay).attr({
      x: function(d,i) { return i * 12; },
      y: 10, width: 10,
      height: function(d,i) { return d * 10; },
      fill: "red"
    });
}
bind([3,1,4,1,5,9]);
render(0);
bind([9,5,1,4,1,3]);
render(1000);
```

## #05 加分題

# Quiz

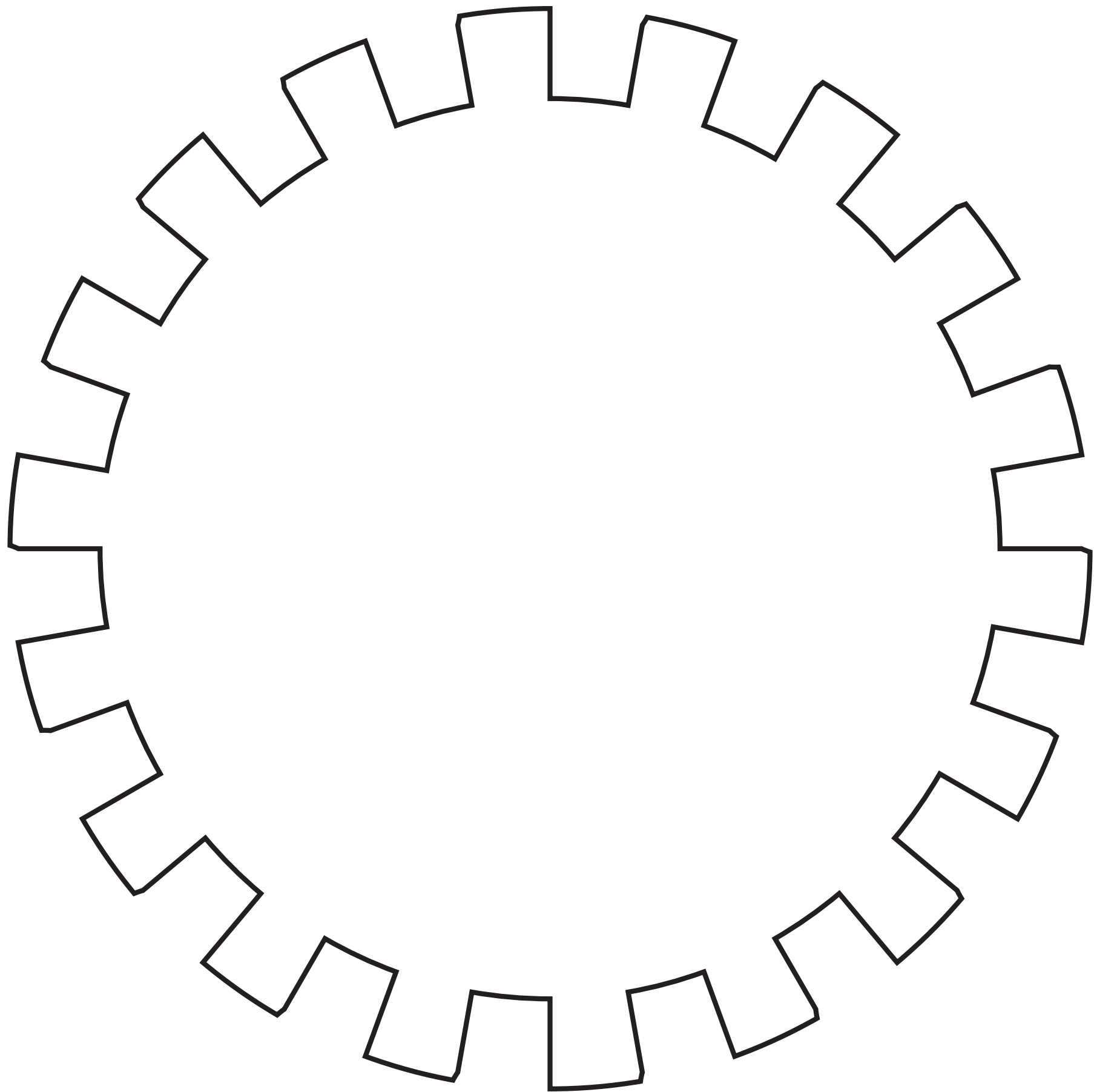
字串參數可以做動畫嗎？

```
d3.selectAll("rect")  
  .attr("fill", "red")  
  .transition().duration(100)  
  .attr("fill", "blue");
```

1鄉2里共3夫子，不識4書5經6義，竟敢教789子，10分大膽

10室9貧，湊得8兩7錢6分5毫4厘，尚且3心2意，1等下流

1.9479019374999997室2.7372570625貧，湊得  
3.5266121874999996兩4.3159673125錢5.1053224375分  
5.894677562499999毫706.3218865625厘，尚且  
9.262742937499999心2意，1等下流



```
<?xml version="1.0" encoding="utf-8"?> <!-- Generator: Adobe Illustrator  
19.0.0, SVG Export Plug-In . SVG Version: 6.00 Build 0) --> <svg version  
="1.1" baseProfile="tiny" id="Layer_1" xmlns="http://www.w3.org/2000/svg"  
xmlns:xlink="http://www.w3.org/1999/xlink" x="0px" y="0px" viewBox="0 0  
1024 576" xml:space="preserve"> <path id="XMLID_39_" fill="#FFFFFF" strok  
e="#231F20" stroke-miterlimit="10" d="M574.4,270.8c1.1-6.1,1.6-12.1,1.6-1  
8.1 c-0.6-0.2-1.1-0.4-1.7-0.7H558c0-5.3-0.5-10.6-1.4-15.6l17.7-3.1c-1.1-6  
.1-2.6-11.9-4.6-17.6c-0.6,0-1.2,0-1.8,0l-15.3,5.6 c-1.8-5-4-9.7-6.6-14.2l  
15.6-9c-3.1-5.3-6.6-10.3-10.4-14.9c-0.6,0.2-1.1,0.4-1.7,0.6l-12.5,10.5c-3  
.4-4-7.1-7.7-11.1-11.1 l11.6-13.8c-4.7-4-9.7-7.5-14.8-10.5c-0.4,0.4-0.9,0  
.8-1.4,1.1L513,174c-4.5-2.6-9.3-4.8-14.2-6.6l6.1-16.9 c-5.8-2.1-11.7-3.7-  
17.5-4.8c-0.3,0.5-0.6,1.1-0.9,1.6l-2.8,16.1c-5.1-0.9-10.3-1.4-15.6-1.4v-1  
8c-6.2,0-12.2,0.5-18.1,1.5 c-0.1,0.6-0.2,1.2-0.4,1.8l2.8,16.1c-5.2,0.9-10  
.3,2.3-15.2,4.1l-6.1-16.9c-5.8,2.1-11.3,4.7-16.5,7.6c0.1,0.6,0.2,1.2,0.3,  
1.8 L423,174c-4.5,2.6-8.8,5.7-12.8,9l-11.6-13.8c-4.7,4-9,8.3-12.9,12.8c0.  
3,0.5,0.6,1,0.9,1.6l12.5,10.5c-3.4,4-6.4,8.3-9,12.8 l-15.6-9c-3.1,5.3-5.7  
,10.8-7.7,16.4c0.5,0.4,0.9,0.8,1.4,1.2l15.3,5.6c-1.8,4.9-3.1,9.9-4.1,15.2  
l-17.7-3.1 c-1.1,6.1-1.6,12.1-1.6,18.1c0.6,0.2,1.1,0.4,1.7,0.7H378v0c0,5.  
3,0.5,10.6,1.4,15.6l-17.7,3.1c1.1,6.1,2.6,11.9,4.6,17.6 c0.6,0,1.2,0,1.8,  
0l15.3-5.6c1.8,5,4,9.7,6.6,14.2l-15.6,9c3.1,5.3,6.6,10.3,10.4,14.9c0.6-0.  
2,1.1-0.4,1.7-0.6l12.5-10.5 c3.4,4,7.1,7.7,11.1,11.1l-11.6,13.8c4.7,4,9.7  
,7.5,14.8,10.5c0.4-0.4,0.9-0.8,1.4-1.1L423,330c4.5,2.6,9.3,4.8,14.2,6.6l-  
6.1,16.9 c5.8,2.1,11.7,3.7,17.5,4.8c0.3-0.5,0.6-1.1,0.9-1.6l2.8-16.1c5.1,  
0.9,10.3,1.4,15.6,1.4v18c6.2,0,12.2-0.5,18.1-1.5 c0.1-0.6,0.2-1.2,0.4-1.8  
l-2.8-16.1c5.2-0.9,10.3-2.3,15.2-4.1l6.1,16.9c5.8-2.1,11.3-4.7,16.5-7.6c-  
0.1-0.6-0.2-1.2-0.3-1.8 L513,330c4.5-2.6,8.8-5.7,12.8-9l11.6,13.8c4.7-4,9  
-8.3,12.9-12.8c-0.3-0.5-0.6-1-0.9-1.6l-12.5-10.5c3.4-4,6.4-8.3,9-12.8l15.  
6,9 c3.1-5.3,5.7-10.8,7.7-16.4c-0.5-0.4-0.9-0.8-1.4-1.2l-15.3-5.6c1.8-4.9  
,3.1-9.9,4.1-15.2L574.4,270.8z"/></svg>
```

# SVG Path

**<path**

**fill="red" stroke="black"**

**d="M10 10L20 20"/>**



# SVG Path



M100,200 C100,100 400,100 400,200



M600,200 C675,100 975,100 900,200

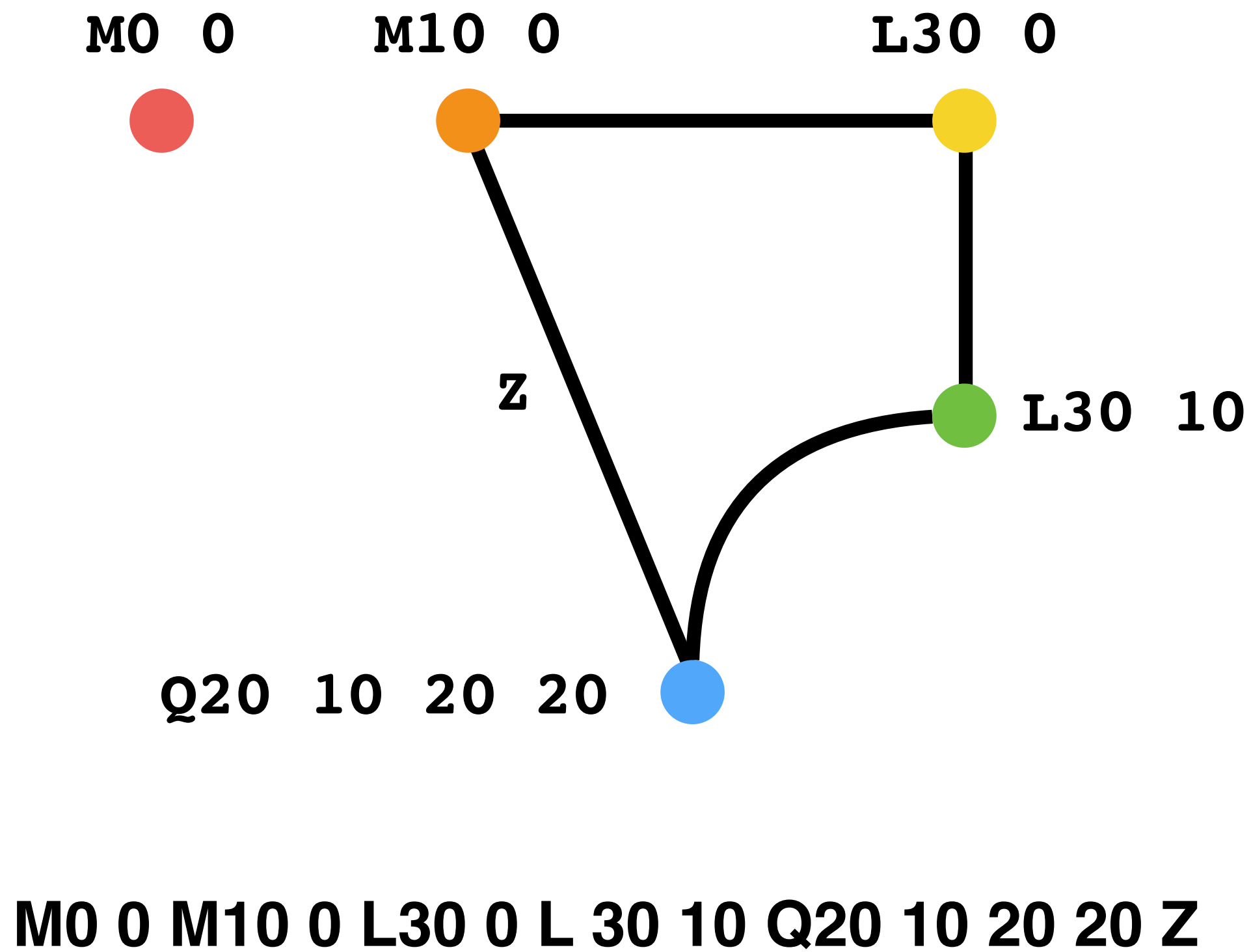


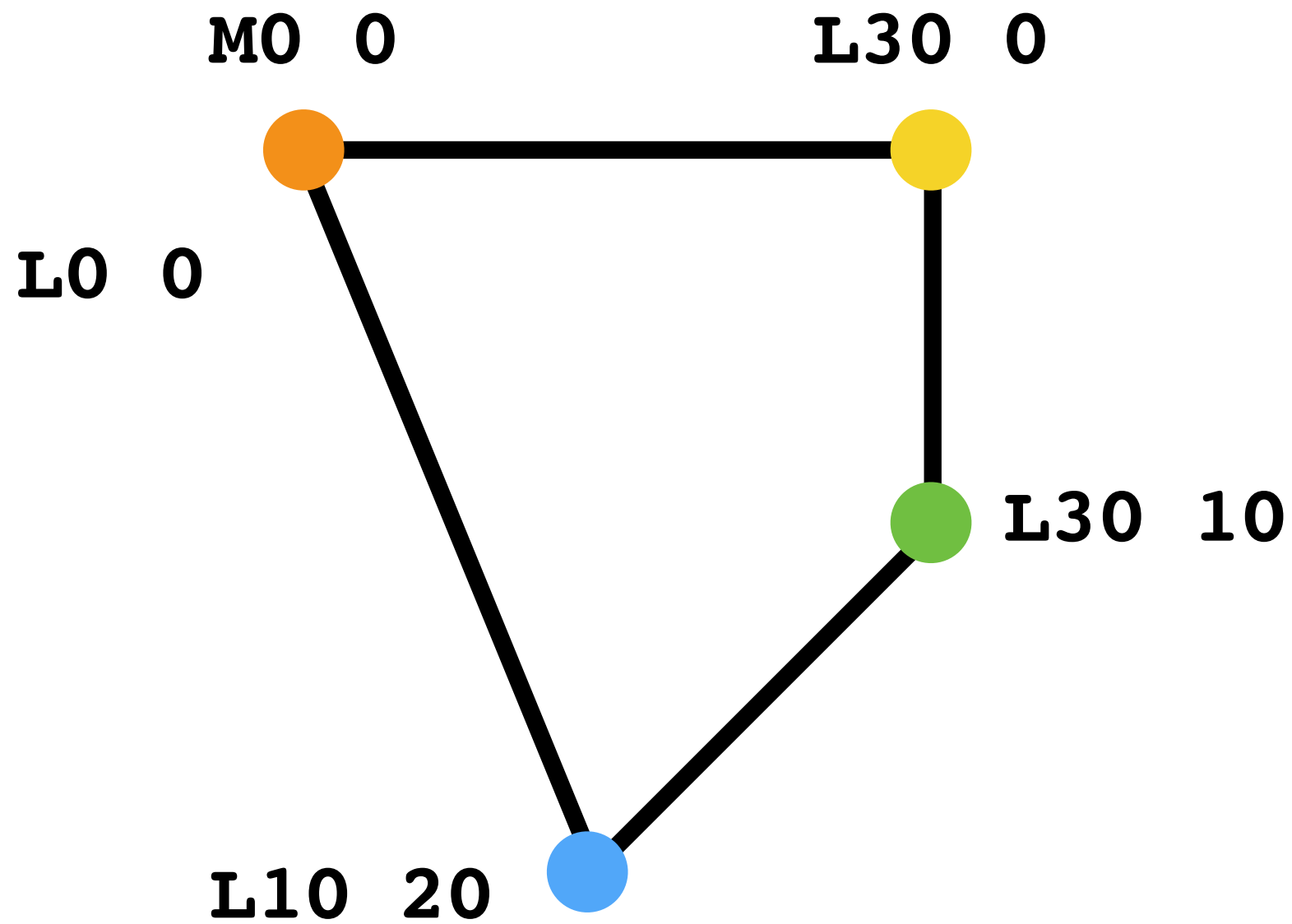
M100,500 C25,400 475,400 400,500



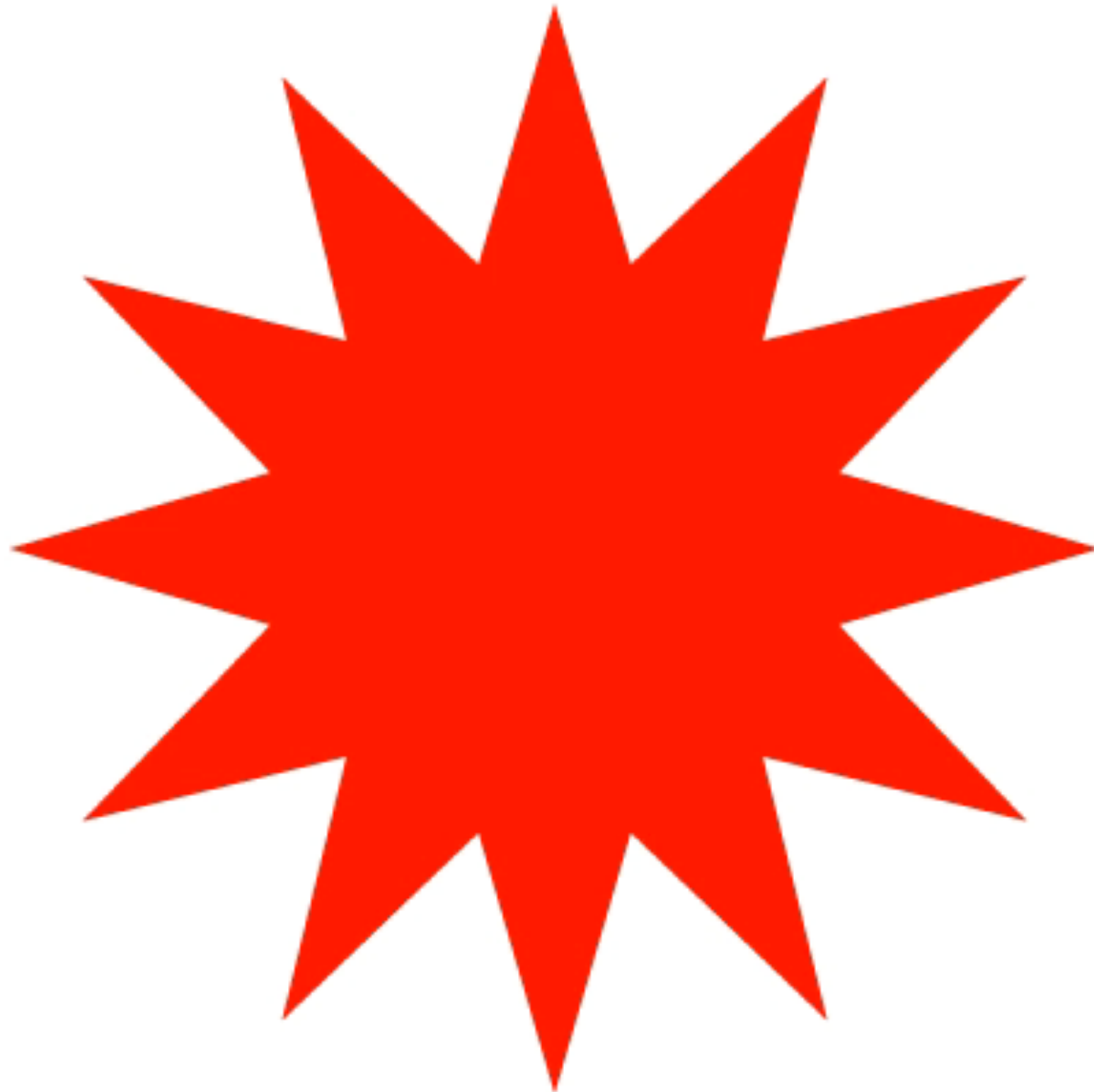
M600,500 C600,350 900,650 900,500





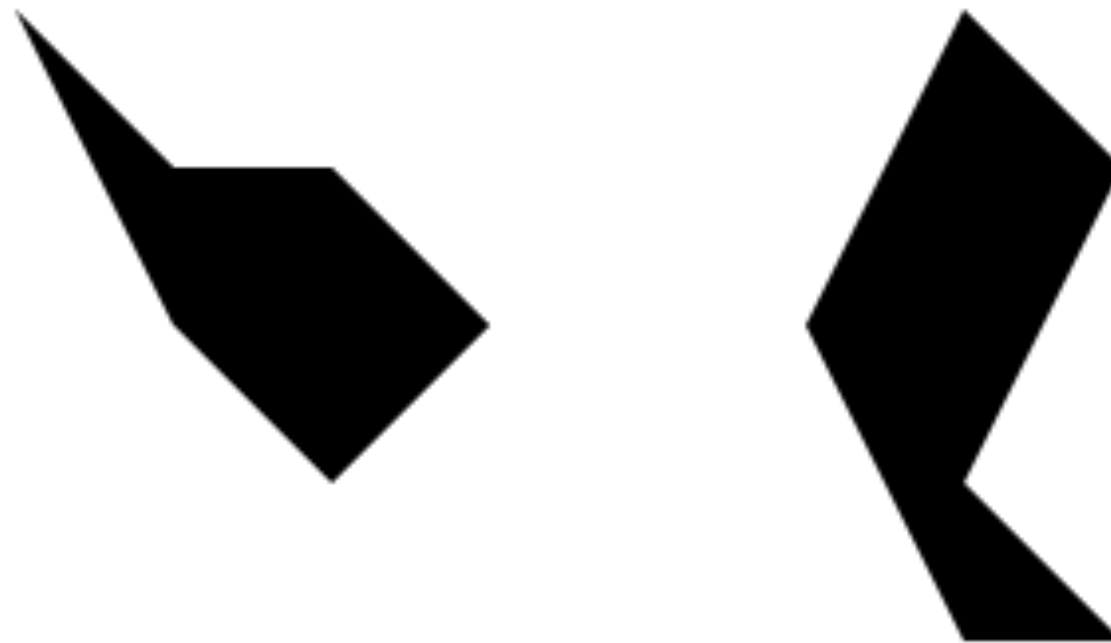


`<path d="M0 0 L30 0 L 30 10 L10 20 L0 0" />`



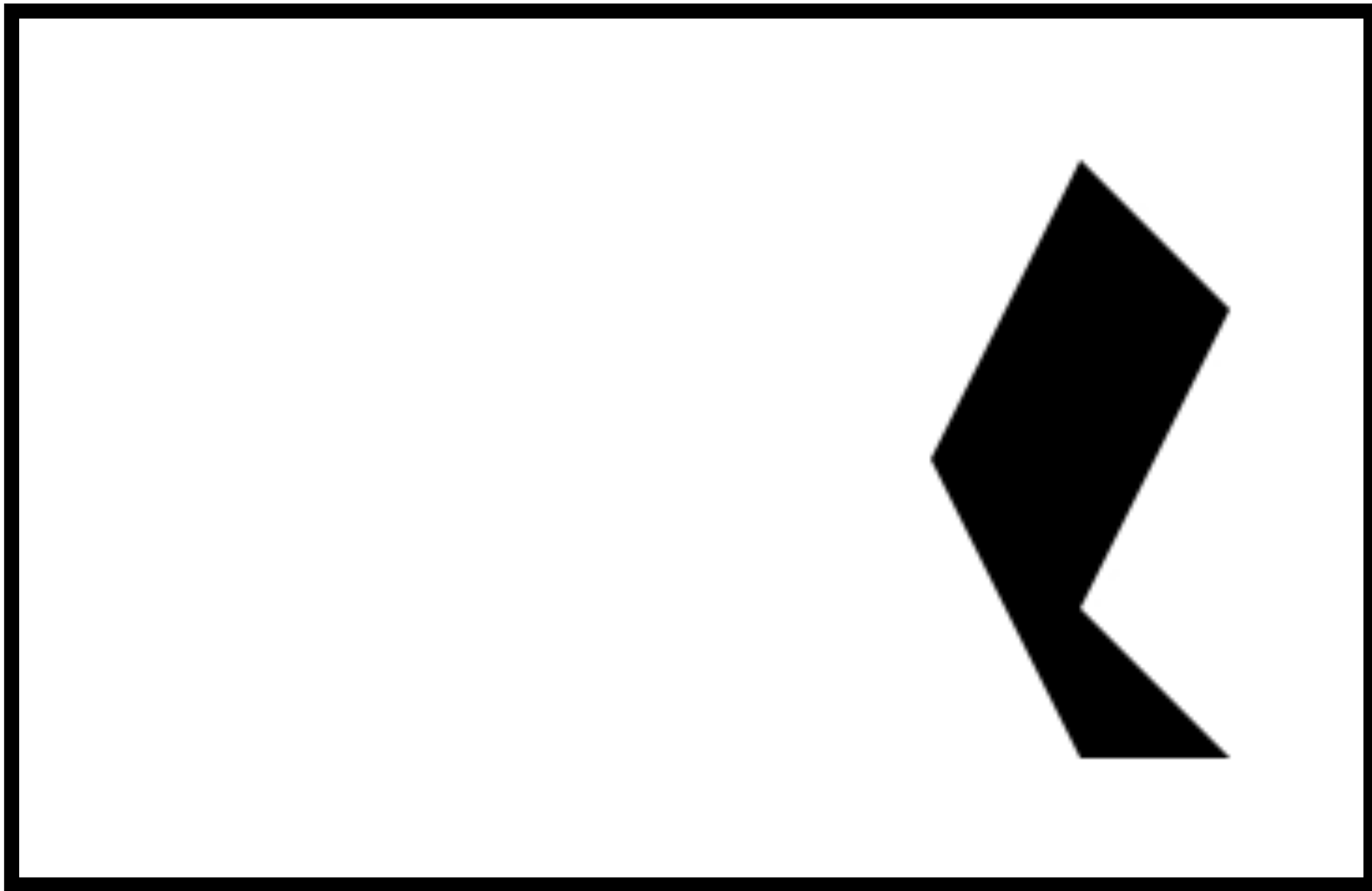
## 練習 #07 利用 SVG Path 隨便畫兩個不一樣的六邊形

```
<svg width="100%" height="100%">  
<path d="M10 10 L20 20 L30 20 L40 30 L30 40 L20 30 L10 10" />  
<path d="M70 10 L80 20 L70 40 L80 50 L70 50 L60 30 L70 10" />  
</svg>
```

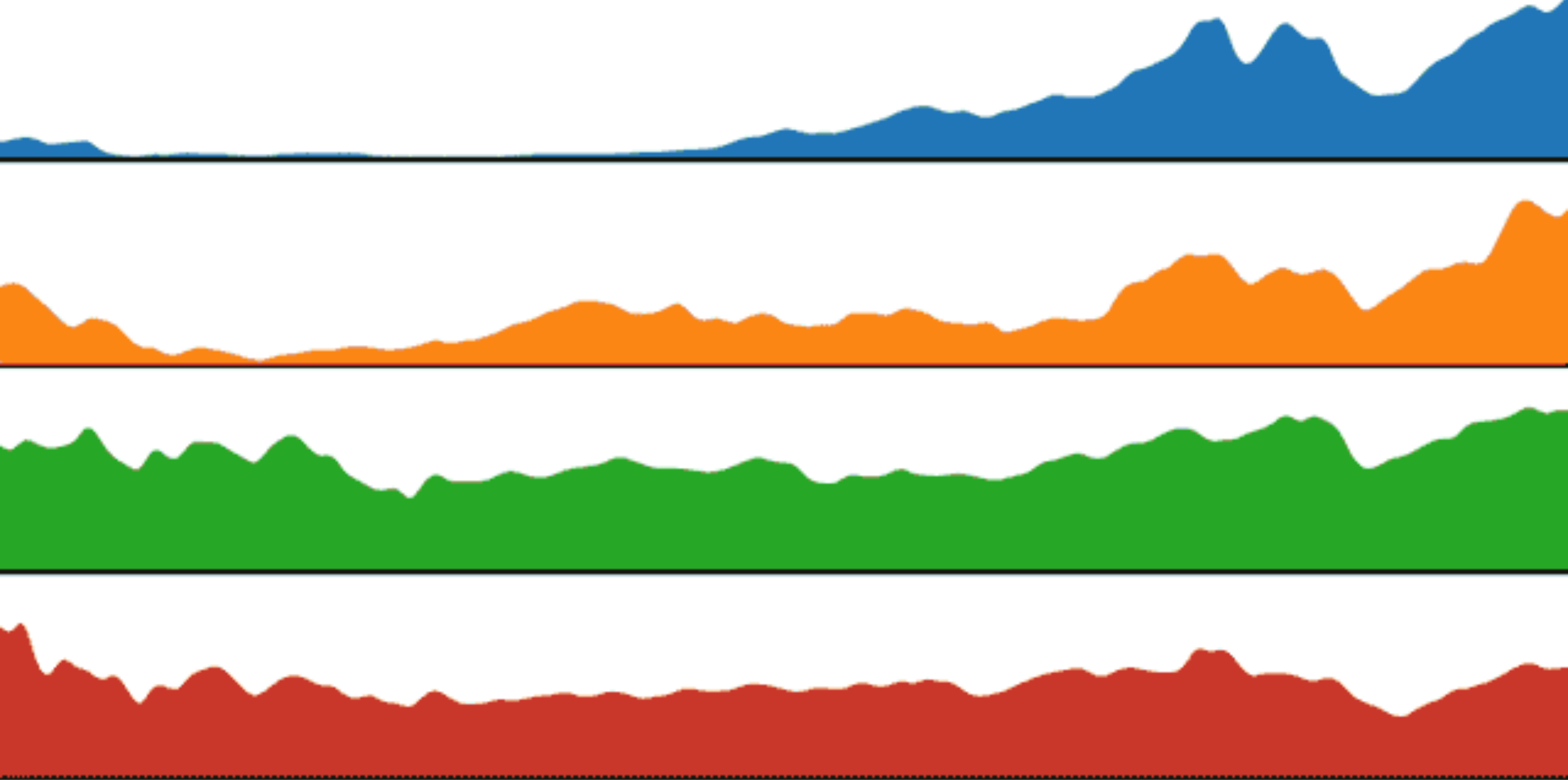


加分題: 嘗試使用 "C" 指令製作曲線線段

## 練習 #08 將練習 #07 中的第一個六邊形利用 D3.js 變形到第二個六邊形



提示：建立一個 path, 先設定為第一個六邊形，再用 transition 設定為第二個六邊形



# Continuous Transition

<http://bl.ocks.org/mbostock/1256572>



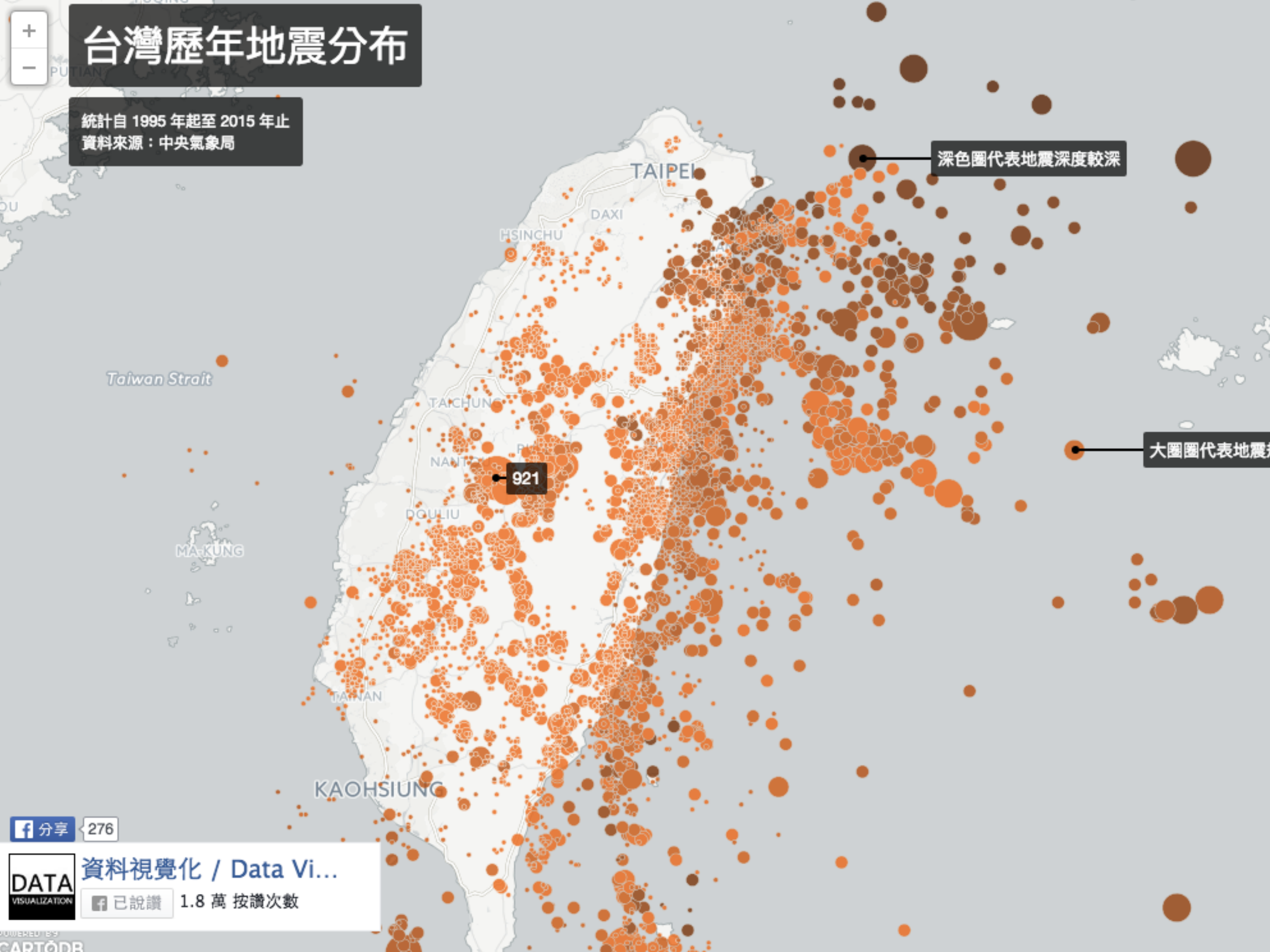


# 台灣歷年地震分布

統計自 1995 年起至 2015 年止  
資料來源：中央氣象局

深色圈代表地震深度較深

大圈代表地震規模較大



f 分享

276



資料視覺化 / Data Vi...

f 已說讚

1.8 萬 按讚次數



全國醫院列表

**goo.gl/Ws6dkN**

# 地址轉經緯度

- 使用批次網路服務
- 使用 Google Spreadsheet
- 利用 CartoDB 的內建服務

# 使用CartoDB 內建服務

- 每天免費 100 次
- 連至 **<http://cartodb.com>**
- 註冊後登入
- 匯入範例資料



PRODUCT ▾

SOLUTIONS ▾

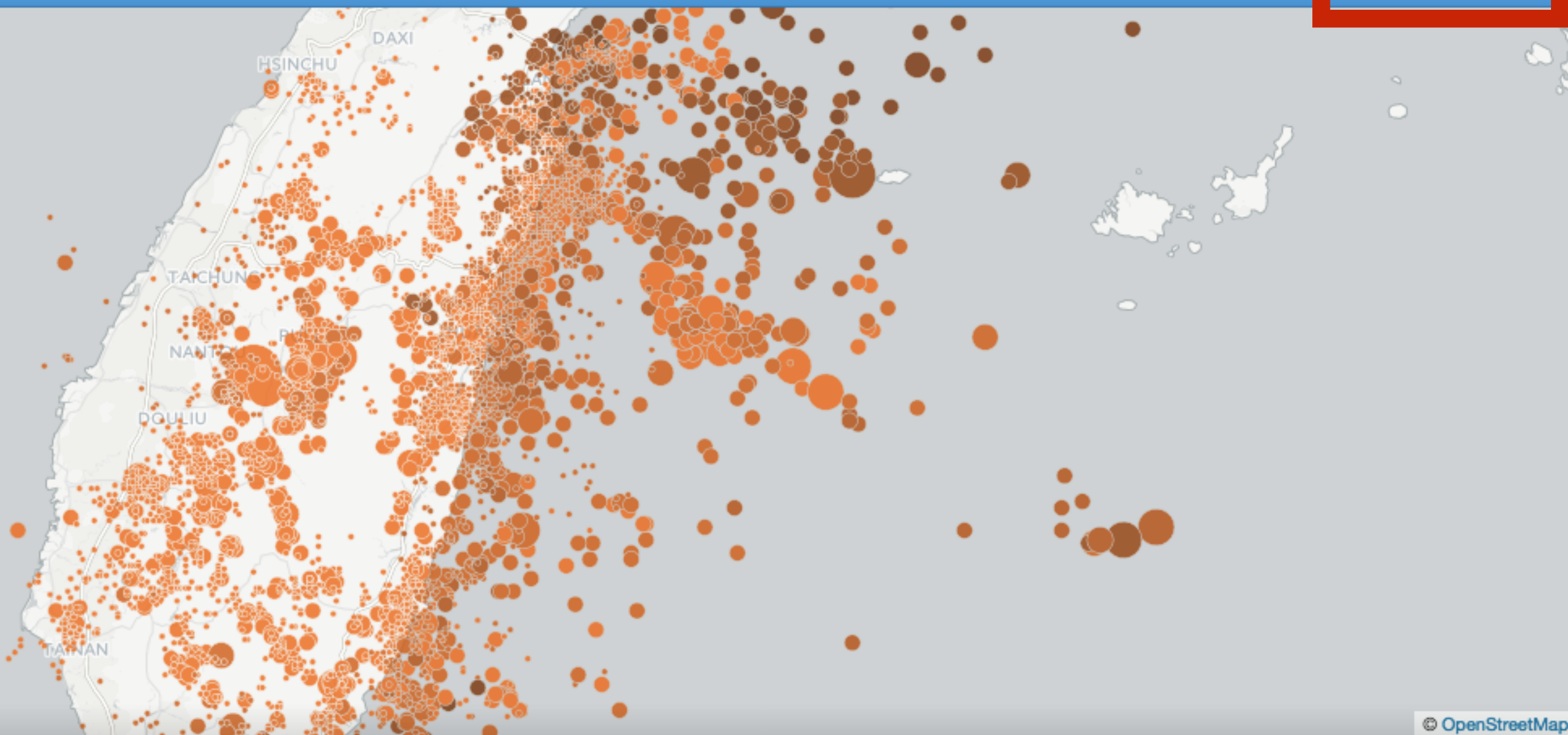
DISCOVER ▾

LEARN ▾

PRICING

LOGIN

SIGN UP



© OpenStreetMap



INFOGRAPHICSTW

5 MAPS

9 DATASETS



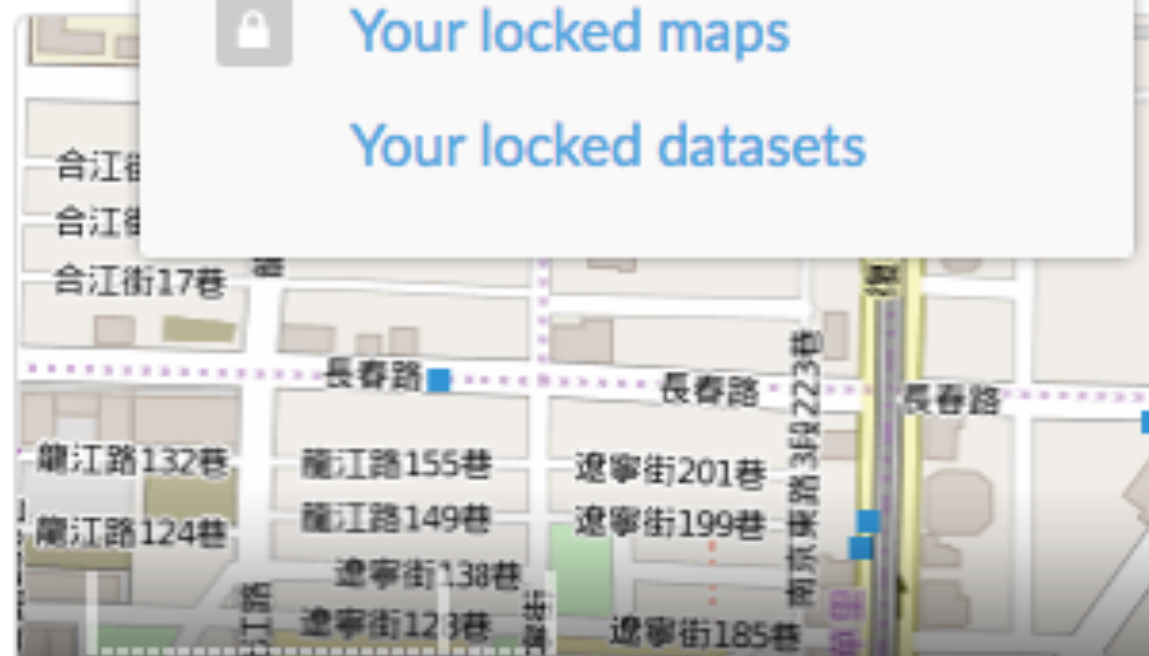
Your maps

[Your datasets](#)



Your locked maps

[Your locked datasets](#)



table\_3 2

[Add description...](#)

[Add tags...](#)

● public ⌚ 5 months ago



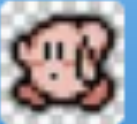
table\_3 1

[Add description...](#)

[Add tags...](#)

● public ⌚ 5 months ago





Data library



NEW DATASET

Search

Connect dataset

Data library



Data file



Google Drive



Dropbox



Box

## Upload a file or a URL

Paste a URL or select a file like CSV, XLS, ZIP, KML, GPX, [see all formats](#)

Drag &amp; drop your file

BROWSE

or

<http://www.cartodb.com/libra>

DATA VIEW

MAP VIEW

Edit ▾

VISUAL

|             | <div>address ▾</div> <div>string</div> | <div>cartodb_georef_status ▾</div> <div>boolean</div> | <div>name ▾</div> <div>string</div> |
|-------------|--|---|-------------------------------------|
| 24, 25.1209 | 基隆市安樂區麥金路222號                          | true  | 長庚醫                                 |
| 33, 25.1305 | 基隆市信義區信二路268號                          | true  | 行政院                                 |

Export...

Georeference

Duplicate dataset...

Merge with dataset...

Change privacy...

Lock dataset

Delete this dataset...

Lon/Lat Columns

City Names

Admin. Regions

Postal Codes

IP Addresses

Street Addresses

### Select the column(s) that has your street address

Use this option if you need high resolution geocoding of your street addresses data.

1 Which Column Are Your Street Addresses Stored In?

2 State/Province Where Address Is Located, If Known

3 Country Where Street Address Is Located, If Known

Select column or type it

address

S

name

S

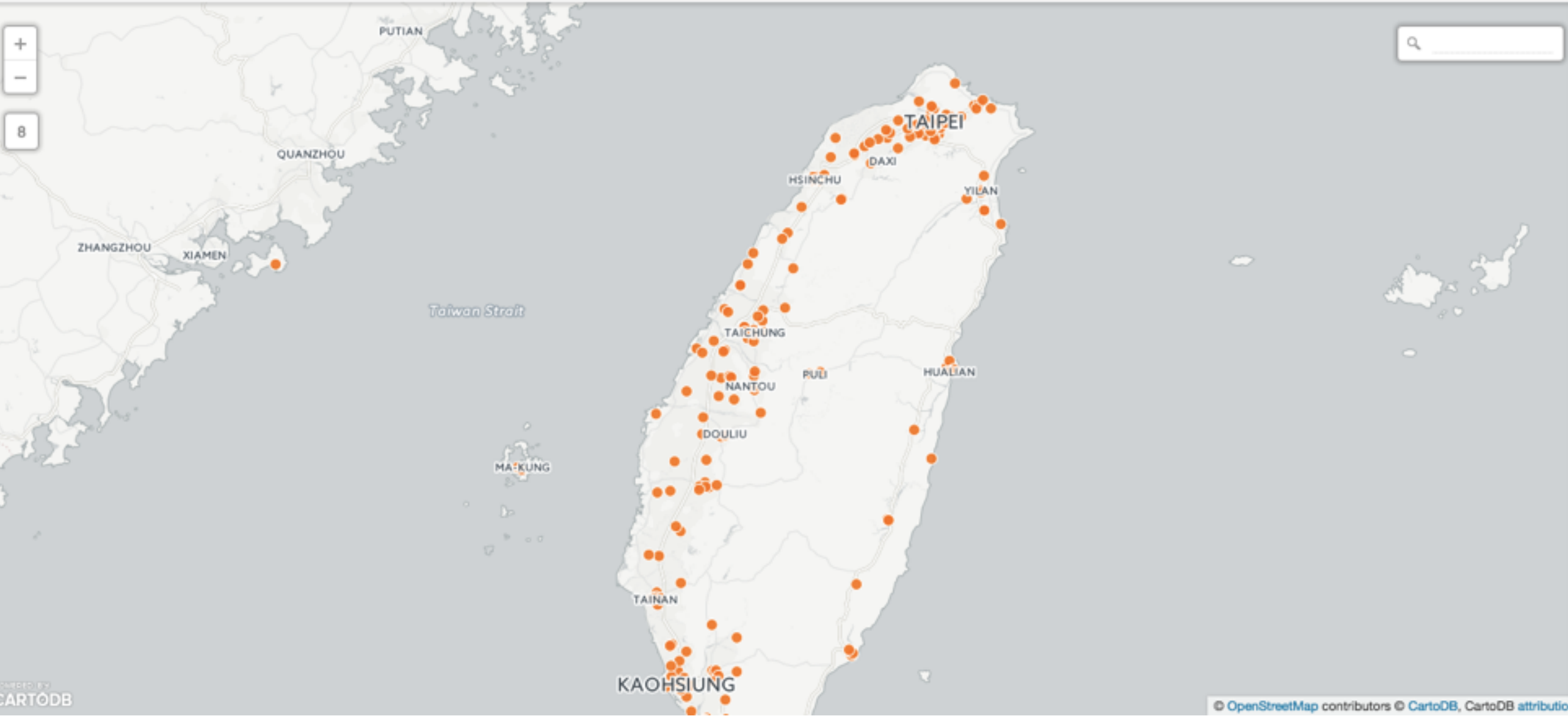
Free text input

T.

Select column or type it



Basemap  
Positron



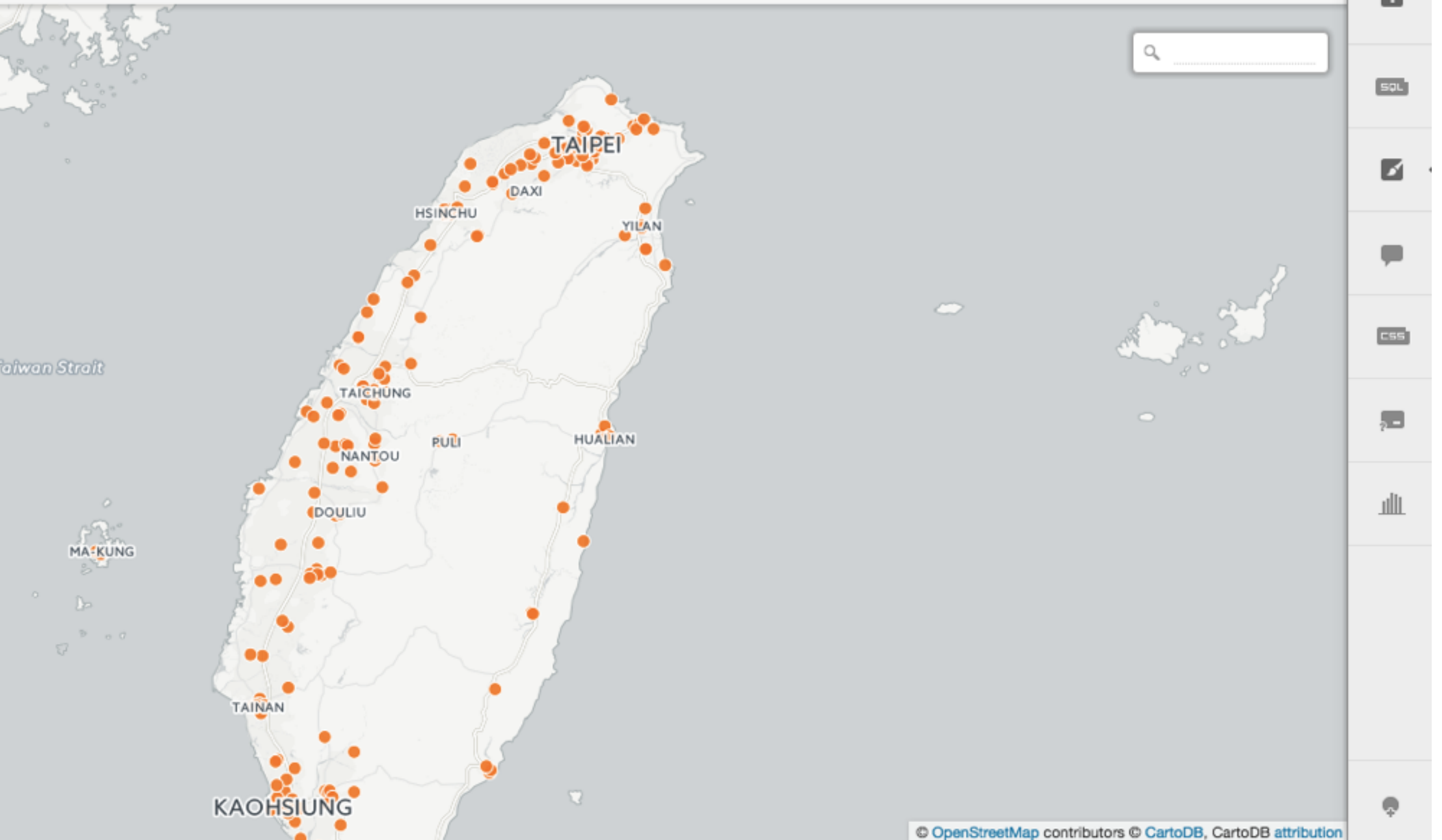
DATA VIEW

MAP VIEW

Edit -

VISUALIZE

create new map





table\_3 1

Edit metadata...

DATA VIEW

MAP VIEW

Edit



Add  
Element



Preview  
Map



Export  
Image

+

-

9



KEELUNG

TAIPEI

DAXI

HSINCHU

YILAN



1

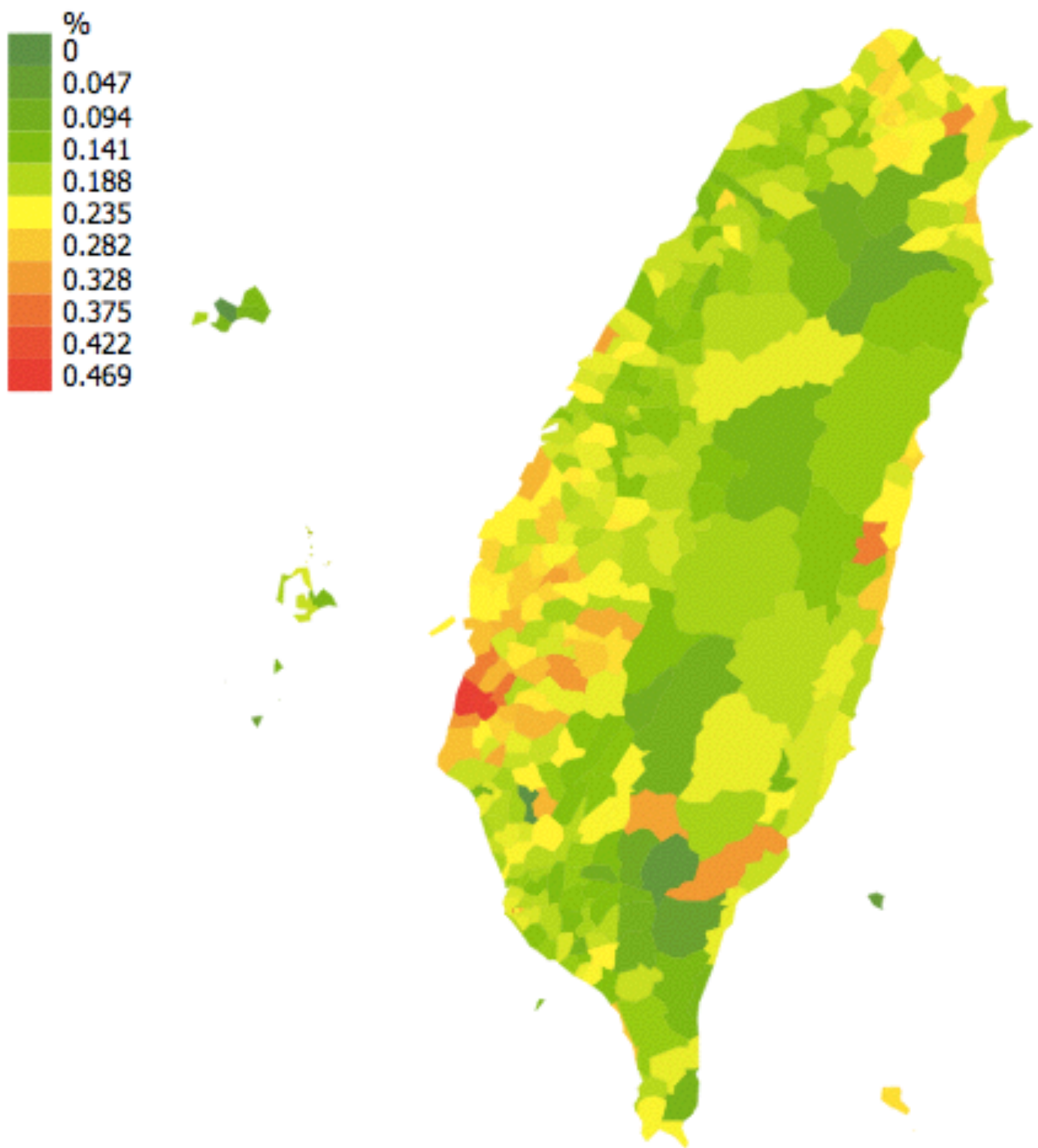
SQL



CSS



# 鄉鎮級台灣癌症地圖

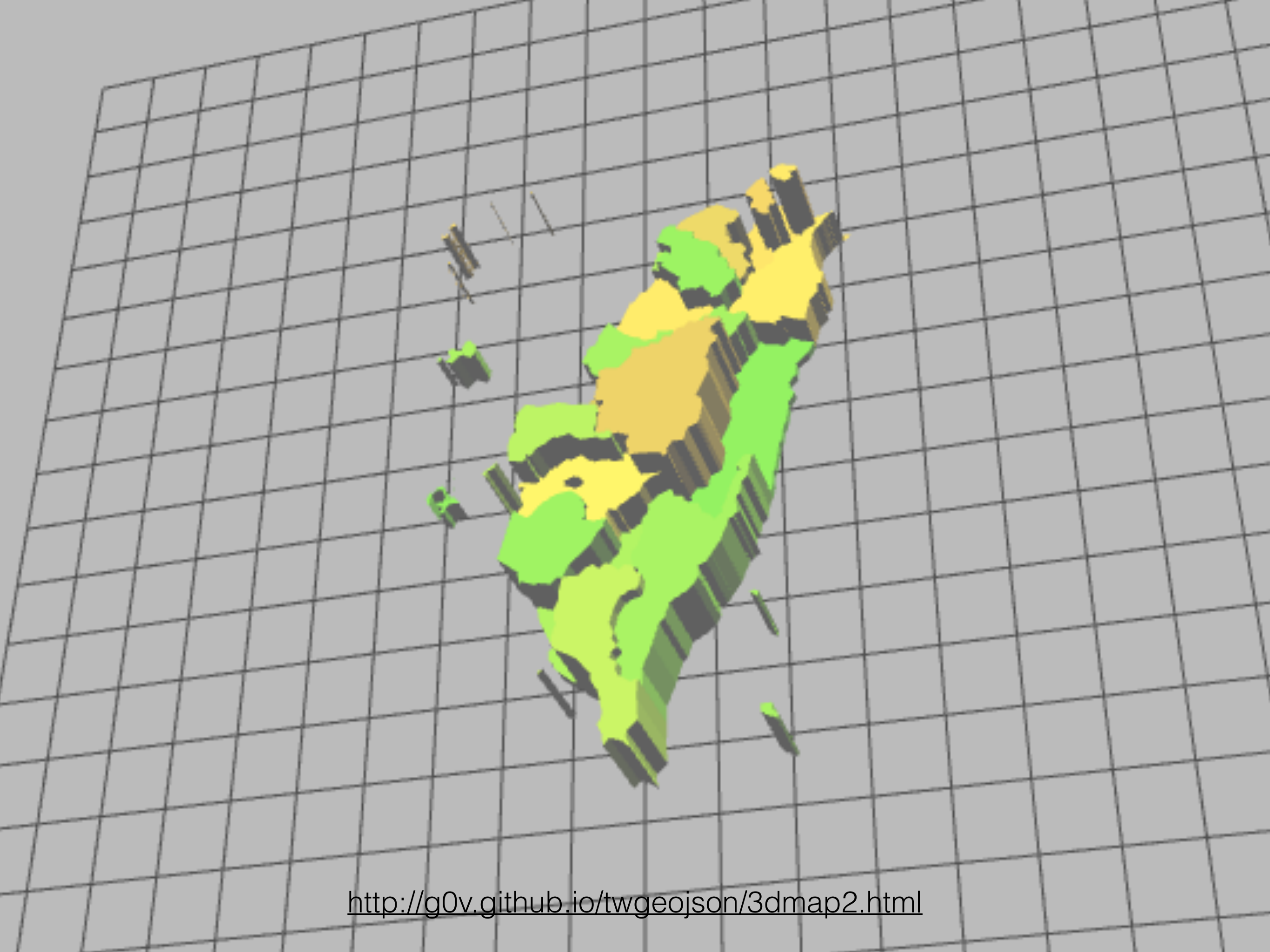


# 面量圖 Choropleth Map

- 需要 geojson 格式地理區塊檔

- g0v 是你的好朋友

<http://github.com/g0v/twgeojson>



<http://g0v.github.io/twgeojson/3dmap2.html>

# 利用現成資料

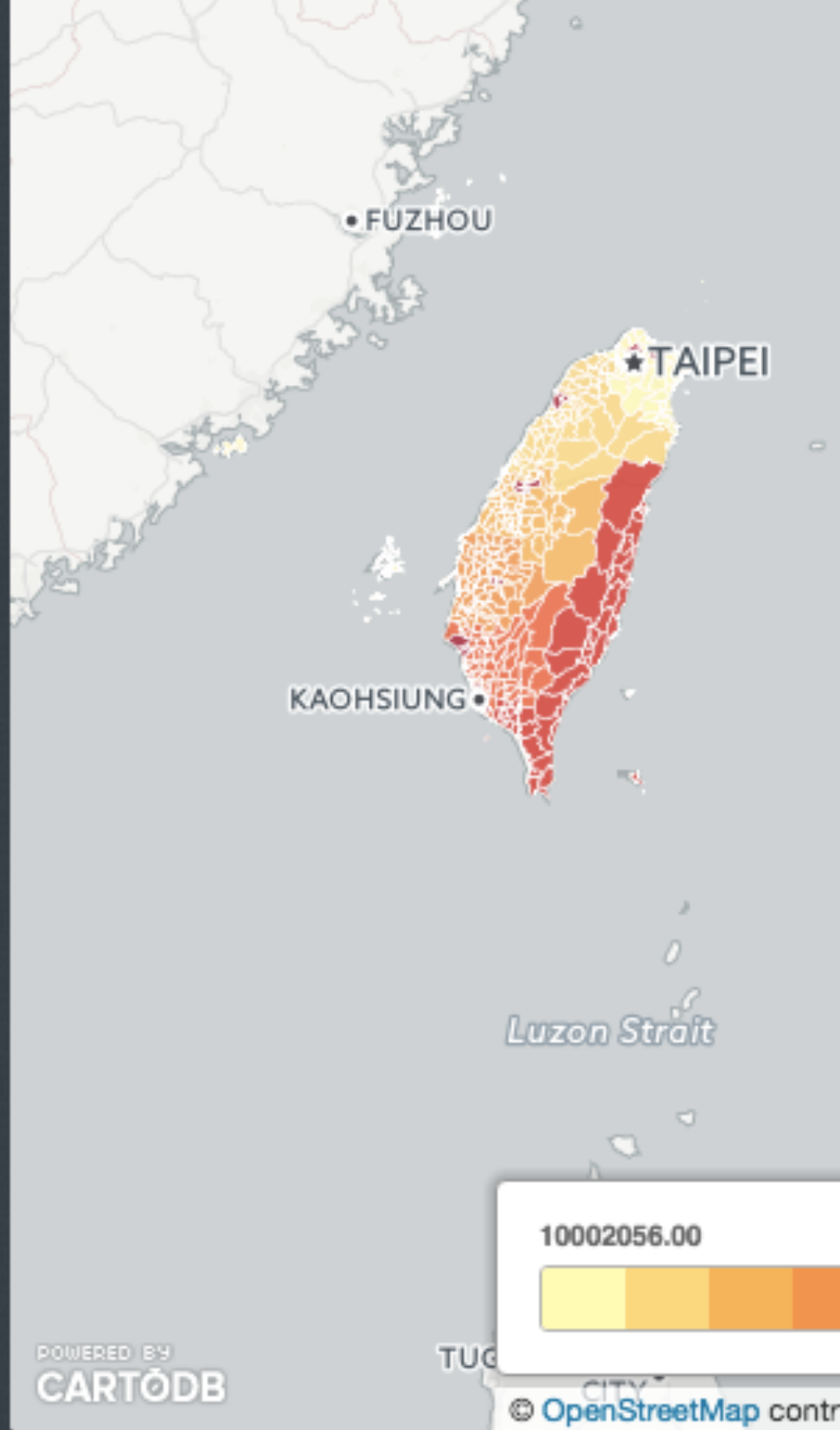
<https://tkrby.cartodb.com/tables/county>

或

**[goo.gl/15qlr](https://goo.gl/15qlr)**



|       |         |         |     |          |      |
|-------|---------|---------|-----|----------|------|
| 市/旗山區 | GeoJSON | 1001219 | 旗山區 | 10012011 | null |
| 市/東區  | GeoJSON | 1002001 | 東區  | 10020001 | null |
| 市/六甲區 | GeoJSON | 1001109 | 六甲區 | 10011010 | null |
| 縣/西湖鄉 | GeoJSON | 1000514 | 西湖鄉 | 10005009 | null |
| 市/東區  | GeoJSON | 1001801 | 東區  | 10018002 | null |
| 市/官田區 | GeoJSON | 1001110 | 官田區 | 10011012 | null |
| 縣/彰化市 | GeoJSON | 1000701 | 彰化市 | 10007004 | null |
| 縣/獅子鄉 | GeoJSON | 1001332 | 獅子鄉 | 10013029 | null |
| 縣/湖口鄉 | GeoJSON | 1000405 | 湖口鄉 | 10004002 | null |
| 縣/內埔鄉 | GeoJSON | 1001313 | 內埔鄉 | 10013010 | null |



> DATASETS



</> API CALL

📄 DOWNLOAD

CREATE MAP



# 製作資料對應 (1)

- 切換至 Data View
- 點擊右方「SQL」鈕
- SELECT \* FROM cartodb\_query\_1 改為  
SELECT **name** FROM cartodb\_query\_1
- 右下角 Apply query
- 點擊右上角「Edit → Export Layer」，選 CSV

# 製作資料對應 (2)

- 匯入 Google Spreadsheet
- 利用 left 函式製作醫院的分區資訊
- 利用 unique + counta 計算各分區醫院數
- 利用 filter 對應地理區塊地名與醫院分區表
- 匯出！

# 製作資料對應 (3)

- 回到 CartoDB ，進入 dataset dashboard
- 點選稍早複製的鄉鎮資料集
- 切換至 Data view ，選擇右下角的 merge dataset
- Column Join, 利用 「name」 欄位合併

# 面量圖 Choropleth Map

- 進入 Map View，在 Wizard 選「Choropleth」
- Column 選稍早建立的值欄位
- add layer to Create Map
- Publish!