

## Volcano函式

目的：將json data轉為volcano plot形式呈現

所需參數：json資料、division id(html)

可進行操作：

- 下載PNG/JPEG檔

html

```
<script src="https://d3js.org/d3.v7.min.js"></script>  
<script src="volcano_plot_example.js"></script>  
<div id="volcanoPlot" style="width: 1500px; height: 800px;"></div>
```

javascript

```
function volcanoplot(divid, data, linedata, groupdata)
```

# Json data input

```
const data = [  
  {x:2.4,      y:5.184,    group:"group1"},  
  {x:4.1,      y:15.129,   group:"group2"},  
  {x:-1.5,     y:2.025,    group:"group3"},  
  {x:-4.8,     y:20.736,   group:"group1"},  
  {x:2.8,      y:7.056,    group:"group2"},  
  {x:1.8,      y:2.916,    group:"group1"},  
  {x:-1.3,     y:1.521,    group:"group2"},  
  {x:0.3,      y:0.081,    group:"group3"}  
];
```

x:Fold Change

y:p-Value

# Json data input

```
const linedata = [  
  [  
    {axis:"x", value:1, label:"foldChange=1"},  
    {axis:"x", value:-1, label:"foldChange=-1"},  
    {axis:"y", value:1, label:"p-Value=1"},  
    {axis:"y", value:5, label:"p-Value=5"}  
  ]  
]
```

label:標線名稱

# Json data input

```
const groupdata = [  
  {  
    title: "Title",  
    group: [  
      {name:"group1", color: "#8661C1"},  
      {name:"group2", color: "#FF359A"},  
      {name:"group3", color: "#000000"}  
    ]  
  }  
]
```

title:圖標題

group:自定義群組

# Output

