

D3.js

- description : D3.js
- author : eleven
- email : jskim@repia.com
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Chart libraries for javascript

1. [D3](#)
2. [GOOGLE CHART](#)
3. [AMCHARTS](#)
4. [JSCharting](#)
5. [HIGHCHARTS](#)

D3.js ?

Data - Driven Documents , Javascript

가

- [D3](#)
- CDN

```
<script src="https://d3js.org/d3.v5.min.js"></script> //d3.js v.5
```

- d3.select() :
- d3.selectAll() :
- .data() : 가
- .enter() : 가 ,
- .append() : 가

- ()

Chart.js

Chart.js

CDN

```
<script src="https://cdn.jsdelivr.net/npm/chart.js@2.8.0"></script>
```

Chart.js

-
- [colorschemes](#)

Line Chart



```
<div>
  <canvas id="myChart" width="700" height="400"></canvas>  //  가
  canvas
</div>

<script>
  var config = new
Chart(document.getElementById("myChart").getContext('2d'),{
  type: 'line',  //
  data: {
    labels: ['January', 'February', 'March', 'April', 'May',
'June', 'July'],
    datasets: [{  // datasets
      가 2 canvas 가
      label: 'My First dataset'
      , backgroundColor: 'rgba(255, 99, 132, 0.2)'
      , borderColor: 'rgb(255, 99, 132)'
      , data: [51, 33, 60, 25, 80, 40, 77]
      , fill: true
    }
  ],
  options: {
    responsive: false,  //
    , canvas 가 . default = true =

    title: {
      display: true,
```

```

        text: 'Chart.js Line Chart'
    },
    scales: {
        xAxes: [{
            display: true,           // x
            scaleLabel: {           //
                display: true,       //
                labelString: 'Month' //
            }
        }],
        yAxes: [{
            display: true,
            scaleLabel: {
                display: true,
                labelString: 'Value'
            },
            ticks: {
                beginAtZero: false, // true y 0
                stepSize: 10
            }
        }],
    }
});

```

Radar Chart



```

<div style="width: 700px; height: 700px;">
  <canvas id="myChart"></canvas>
</div>

<script>
  var ctx = document.getElementById("myChart").getContext('2d');
  var radarOptions = {
    maintainAspectRatio: false // false canvas가 div
    가 default = true.
    , title: {
      display: true,
      text: '== RADAR CHART =='
    }
    , scale: {
      angleLines: {
        display: true //
      }
    }
  }

```

```

    }

    var myChart = new Chart(ctx, {
      type: 'radar',
      data: {
        labels: ["Red", "Blue", "Yellow", "Green", "Purple",
"Orange", "Navy"],
        datasets: [{
          label: '# first'
            , data: [51, 33, 60, 25, 80, 40, 77]
            , fill: true
            , backgroundColor: 'rgba(255, 99, 132, 0.2)'
            , borderColor: 'rgb(255, 99, 132)'
            , borderWidth: 2
          }
            , {
          label: '# second'
            , data: [21, 10, 79, 82, 55, 46, 22]
            , fill: true
            , backgroundColor: 'rgba(54, 162, 235, 0.2)'
            , borderColor: 'rgb(54, 162, 235)'
            , borderWidth: 2
          }
        ]
      },
      options: radarOptions
    });

</script>

```

JSON

```

<div style="width: 700px; height: 700px;">
  <canvas id="myChart"></canvas>
</div>

<script>
  // JSON
  var jsonData = [{
    "siteId": "P001"
    , "siteNm": " "
    , "stdCount": 340
  }
    , {
    "siteId": "P002"
    , "siteNm": " "
    , "stdCount": 275
  }, ...
  ]

```

```

        //      value      key      가      .
    var labels = jsonData.map(function(e) {
        return e.siteNm;           // return "      "      "
    });

    var config = new
Chart(document.getElementById("myChart").getContext('2d'),{
    type: 'line',
    data: {
        labels: labels,      //      가      .
        datasets: [{
            label: 'My First dataset'
            , backgroundColor: 'rgba(255, 99, 132, 0.2)'
            , borderColor: 'rgb(255, 99, 132)'
            , data: [51, 33, 60, 25, 80, 40, 77]
            , fill: true
        },
    ],
    //

```

Doughnut Chart



```

<div>
    <canvas id="myChart" width="900px" height="500px"></canvas>
</div>

<script>
    var ctx = document.getElementById('myChart').getContext('2d');

    var jsonData = [{
        "departId": "001"
        , "departNm": "      "
        , "count": 48
    }, {
        "departId": "002"
        , "departNm": "      "
        , "count": 6
    },
    ...
    ]

    var data = jsonData.map(function(e) {
        return e.count;
    });
    var label = jsonData.map(function(e) {
        return e.departNm;
    });

```

```

    });

    var config = {
      type: 'doughnut',
      data: {
        datasets: [{
          data: data,
          backgroundColor: ['#ff6384', '#ff9f40', '#ffcd56',
            '#4bc0c0', '#36a2eb'],
        }],
        labels: label
      },
      options: {
        rotation: 1 * Math.PI, // rotation circumference
        circumference: 1 * Math.PI,
        cutoutPercentage: 60, //
        responsive: false,
        legend: {
          position: 'top', //
          labels: {
            fontSize: 16, //
            boxWidth: 50, //
            padding: 15 //
          }
        },
        title: {
          display: true,
          text: '가',
          fontSize: 25 //
        },
        animation: {
          animateScale: true, // true
          animateRotate: true // true
        }
      }
    };

    var doughnut = new Chart(ctx, config);
</script>

```

Bubble Chart



```

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

    <script>

    var options = {
      maintainAspectRatio: false,
      type: 'bubble',
      options: {
        responsive: true,
        aspectRatio: 3, // 가 : .1
        // 가 . canvas css 가 .
        title: {
          display: true,
          text: 'BUBBLE CHART',
          fontSize: 20
        },
      },
    },
    data: {
      datasets: [ // dataset 가

        {
          label: 'Tony',
          data: [
            {
              x: 3, // x .
              y: 5, // y .
              r: 20 // .
            }
          ],
          backgroundColor: "rgba(255, 99, 132, 0.5)",
          hoverBackgroundColor: "rgba(255, 99, 132, 2)" //

        },
        {
          label: 'Captain',
          data: [
            {
              x: 3.7,
              y: 4,
              r: 90
            }
          ],
          backgroundColor: "rgba(255, 19, 200, 0.5)",
          hoverBackgroundColor: "rgba(255, 19, 200, 2)"

        },
        {
          label: 'Thor',
          data: [
            {

```

```
        x: 2.1,  
        y: 6,  
        r: 18  
      },  
    ],  
    backgroundColor: "rgba(255, 99, 132, 0.5)",  
    hoverBackgroundColor: "rgba(255, 99, 132, 2)"  
  }, ...  
]  
}  
  
var ctx = document.getElementById('myChart').getContext('2d');  
new Chart(ctx, options);  
  
</script>
```

R&D

Ref

D3.js

eleven, , D3.js, d3, chart.js,

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