

```

1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="UTF-8"/>
5      <meta name="description" content="Data Visualisation"/>
6      <meta name="keywords" content="HTML, CSS, D3"/>
7      <meta name="author" content="Anh Khoa"/>
8
9      <title>Task 2.3 D3 Drawing with Data - Scatter Plot</title>
10
11      <script src="https://d3js.org/d3.v7.min.js"></script>
12
13    </head>
14
15    <body>
16      <h1>The D3 Journey starts here...</h1>
17
18      <script>
19        var w = 500;
20        var h = 150;
21        var padding = 30;
22
23        var dataset = [
24          [5,20,8],
25          [480,90,15],
26          [250,50,5],
27          [100,33,12],
28          [330,95,7],
29          [410,12,10],
30          [475,44,20],
31          [25,67,9],
32          [85,21,4],
33          [220,88,14]
34        ];
35
36
37        var xScale = d3.scaleLinear()
38          .domain([0, d3.max(dataset, d => d[0])])
39          .range([padding, w - padding]);
40
41        var yScale = d3.scaleLinear()
42          .domain([0, d3.max(dataset, d => d[1])])
43          .range([h - padding, padding]);
44
45        var rScale = d3.scaleLinear()
46          .domain([0, d3.max(dataset, d => d[2])])
47          .range([3, 12]);
48
49        var svg = d3.select("body")
50          .append("svg")
51          .attr("width", w)
52          .attr("height", h)
53
54        var barWidth = w / dataset.length - padding;
55
56        svg.selectAll("circle")
57          .data(dataset)
58          .enter()
59          .append("circle")
60          .attr("cx", function(d){
61            return xScale(d[0]);})
62          .attr("cy", function(d){
63            return yScale(d[1]);})
64          .attr("r", function(d){
65            return rScale(d[2]);})
66          .attr("fill", "slategrey");
67
68        /* Create the labels*/
69        svg.selectAll("text")
70          .data(dataset)
71          .enter()
72          .append("text")
73          .text(function(d){
74            return "[" + d[0] + ", " + d[1] + "]";
75          })
76          .attr("x", function(d){
77            return xScale(d[0]);})
78          .attr("y", function(d){
79            return yScale(d[1]) - 10;})
80          .attr("text-anchor", "middle")
81          .attr("font-size", "12px")
82          .attr("fill", "black");
83
84      </script>
85
86      <br>
87      <bf>
88      <footer style="color: grey">COS30045 Data Visualisation<br>
89        Joe Bloggs</footer>
90    </body>
91  </html>

```