

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <meta name="description" content="Data Visualisation">
8     <meta name="keywords" content="HTML, CSS, D3">
9     <meta name="author" content="Dhanveer Ramnauth">
10    <meta name="description" content="Data Visualisation">
11
12    <title>Task 2.3 D3 Data Binding</title>
13    <script src="https://cdn.jsdelivr.net/npm/d3@7"></script>
14    <link href="css/style.css" rel="stylesheet">
15 </head>
16
17 <body>
18     <h1>The D3 Journey starts here...</h1>
19
20     <script>
21
22         let dataset = [
23             [5, 20, 3],
24             [480, 90, 6],
25             [250, 50, 2],
26             [100, 33, 5],
27             [330, 95, 1],
28             [410, 12, 4],
29             [475, 44, 7],
30             [25, 67, 3],
31             [85, 21, 2],
32             [220, 28, 6]
33         ];
34
35         //SIZE OF CANVAS
36         let w = 700;
37         let h = 200;
38
39         <!--DEFINE CANVAS -->
40         let svg = d3.select("body")
41             .append("svg")
42             .attr("width", w)
43             .attr("height", h);
44
45         //spacing between the bars (by modifying width)
46         let padding = 1; // size between bar
47         let height_multiplier = 4; //make bar big
48
49         //GENERATE CIRCLE
50         svg.selectAll("circle")
51             .data(dataset) //bind data (counts and prepares)
52             .enter() //generate placeholder for data
53             .append("circle") //append circle per placeholder
54             .attr("cx", function (d, i) { //center X of circle
55                 return d[0]; //defined in array
56             })
57             .attr("cy", function (d) { //center Y of circle
58                 return d[1]; //defined in array
59             })
60             .attr("r", function(d) { //radius of circle
61                 return d[2]; //defined in array
62             }) //radius
63             .attr("fill", "slategray"); //set color
64
65         //GENERATE LABELS
66         svg.selectAll("text")
67             .data(dataset) //bind data (counts and prepares)
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```
68 .enter() //generate placeholder for data
69 .append("text") //append text svg per placeholder
70 .text(function (d) { //set text
71     return d[0] + "," + d[1] //comma separated coords
72 })
73 .attr("x", function (d, i) { //x coord
74     return d[0] + d[2]; //x + radius (right)
75 })
76 .attr("y", function (d, i) { //y coord
77     return d[1] - d[2]; //y - radius (above)
78 })
79 .attr("font-size", "11"); //set font size
80
81 </script>
82
83 <br>
84
85 <footer>
86     Data Visualisation <br>Dhanveer Ramnauth
87 </footer>
88
89 </body>
90
91 </html>
```