

lab-1.3\index.html

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1  <!-- index.html -->
2  <!DOCTYPE html>
3  <html lang="en">
4
5  <head>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <meta name="description" content="Drawing Shapes with SVG for Data Visualization">
9      <meta name="author" content="Joe Bloggs">
10     <title>Drawing Shapes with SVG</title>
11     <style>
12         body {
13             font-family: Arial, sans-serif;
14             margin: 20px;
15             max-width: 800px;
16         }
17
18         h1 {
19             font-size: 24px;
20             margin-bottom: 10px;
21         }
22
23         h2 {
24             font-size: 16px;
25             color: #555;
26             margin-bottom: 20px;
27         }
28
29         .visualization-container {
30             margin-bottom: 40px;
31         }
32
33         .footer {
34             margin-top: 20px;
35             color: #666;
36             font-size: 14px;
37         }
38     </style>
39 </head>
40
41 <body>
42     <!-- First Visualization -->
43     <div class="visualization-container">
44         <h1>Drawing Shapes with SVG</h1>
45
46         <!-- SVG Canvas with basic shapes demonstration -->
47         <svg width="500" height="80" style="background-color: #6c7a89;">
48             <!-- Circle -->
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49     <circle cx="40" cy="40" r="25" fill="cornflowerblue" />
50
51     <!-- Rectangle -->
52     <rect x="65" y="15" width="50" height="50" fill="#4a89dc" />
53
54     <!-- Ellipse -->
55     <ellipse cx="155" cy="40" rx="40" ry="25" fill="#3498db" stroke="#3498db" stroke-
width="2" />
56
57     <!-- Line -->
58     <line x1="15" y1="40" x2="195" y2="40" stroke="black" stroke-width="5" />
59
60 </svg>
61
62 <div class="footer">
63     <p>COS30045 Data Visualisation<br>
64         Semester 1 2020X<br>
65         Joe Bloggs</p>
66 </div>
67 </div>
68
69 <!-- Second Visualization -->
70 <div class="visualization-container">
71     <h1>Drawing Shapes with SVG</h1>
72     <h2>Pet ownership in 2019</h2>
73
74     <!-- SVG Canvas for pet ownership bar chart -->
75     <svg width="500" height="300" style="background-color: #6c7a89;">
76         <!-- Bar chart using rectangles -->
77         <rect x="50" y="50" width="80" height="180" fill="#4a89dc" />
78         <rect x="150" y="70" width="80" height="160" fill="#4a89dc" />
79         <rect x="250" y="130" width="80" height="100" fill="#4a89dc" />
80         <rect x="350" y="190" width="80" height="40" fill="#4a89dc" />
81         <rect x="450" y="210" width="80" height="20" fill="#4a89dc" />
82
83         <!-- You can add text labels for each bar (optional) -->
84         <!--
85         <text x="90" y="250" text-anchor="middle" fill="white">Dogs</text>
86         <text x="190" y="250" text-anchor="middle" fill="white">Cats</text>
87         <text x="290" y="250" text-anchor="middle" fill="white">Fish</text>
88         <text x="390" y="250" text-anchor="middle" fill="white">Birds</text>
89         <text x="490" y="250" text-anchor="middle" fill="white">Other</text>
90         -->
91     </svg>
92
93     <div class="footer">
94         <p>COS30045 Data Visualisation<br>
95             Semester 1 2020X<br>
96             Joe Bloggs</p>
97     </div>

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98     </div>
99
100    <!-- Additional Examples with Different Shapes and Colors -->
101    <div class="visualization-container">
102        <h1>More SVG Shape Examples</h1>
103
104        <svg width="500" height="200" style="background-color: #34495e;">
105            <!-- Ellipse -->
106            <ellipse cx="100" cy="80" rx="70" ry="40" fill="#3498db" stroke="#ecf0f1" stroke-
width="2" />
107
108            <!-- Polygon (Triangle) -->
109            <polygon points="200,40 250,120 150,120" fill="#2ecc71" />
110
111            <!-- Rectangle with rounded corners -->
112            <rect x="280" y="40" width="80" height="80" rx="15" ry="15" fill="#e74c3c" />
113
114            <!-- Path (custom shape) -->
115            <path d="M 400,40 L 440,40 L 420,80 Z" fill="#f1c40f" />
116
117            <!-- Circle with different styling -->
118            <circle cx="100" cy="160" r="20" fill="#9b59b6" stroke="#ecf0f1" stroke-width="3"
stroke-dasharray="5,3" />
119
120            <!-- Line with different styling -->
121            <line x1="150" y1="160" x2="250" y2="160" stroke="#e67e22" stroke-width="8"
stroke-linecap="round" />
122
123            <!-- Text element -->
124            <text x="320" y="160" font-family="Arial" font-size="18" fill="#ecf0f1">SVG
Text</text>
125        </svg>
126    </div>
127 </body>
128
129 </html>
```